EAGON & ASSOCIATES, INC.
Consulting Geologists

100 Old Wilson Bridge Road, Suite 115 / Worthington, Ohio 43085 / (614) 888-5760 / FAX (614) 888-5763

October 12, 2015

Mr. Regan S. Williams
Ohio EPA – Division of Environmental Response & Revitalization
2110 East Aurora Avenue
Twinsburg, Ohio 44087

RE: April 2015 Annual Monitoring Event Results
Summit National Superfund Site
Deerfield, Ohio

Dear Mr. Williams:

On behalf of the Summit National Facility Trust (SNFT), transmitted herewith is one hardcopy and one electronic copy on CD-ROM of Eagon & Associates, Inc.'s report entitled: "April 2015 Annual Monitoring Event Results, Summit National Superfund Site." The report presents the results of groundwater, surface water, and ditch sediment sampling activities performed in April 2015. The sampling event included the collection of groundwater samples from eight Water Table Unit (WTU) monitoring wells, including two off-site "sentinel wells", and four Upper Intermediate Unit (UIU) wells. The samples were analyzed for the annual Site-specific indicator list (SSIPL) of constituents specified in Eagon & Associates, Inc.'s October 2014 report for the May 2014 five-year monitoring event. The current SSIPL has been implemented for annual groundwater monitoring activities to be performed during 2015 through 2018.

In addition to the sampling activities completed during the event, site-wide water levels were measured in all WTU and UIU monitoring wells and piezometers and potentiometric surface maps were prepared for each zone. The sediment and surface water samples were collected in the drainage ditch located at the southeast corner of the Site and were analyzed for the Target Compound List volatile organic compounds and semivolatile organic compounds included in Table 12.3 of the Site's November 1996 Quality Assurance Project Plan.

The April 2015 results demonstrate that no maximum contaminant concentrations (MCLs) were exceeded in the off-site sentinel wells; therefore, no contingency measures were necessary. Shutdown of the treatment system has not allowed for the migration of contaminants to off-site areas and the resumption of active groundwater extraction operations is not warranted at this time. No changes are proposed for the monitoring program based on the April 2015 results and annual monitoring activities should continue for 2016 through 2018. The next five-year monitoring event is scheduled to occur in 2019.

The next scheduled sampling event (annual SSIPL event) is tentatively scheduled for April 2016.

Please call me at (614) 888-5760 if you have any questions regarding this submittal.

Sincerely,

Michael T. Gibson, CPG
Senior Hydrogeologist

encl.
cc: Pablo Valentin, USEPA, (hardcopy & e-copy)
Jeff Sussman, SNFT (hardcopy & e-copy)
Douglas Hayman, Shumaker, Loop, & Kendrick, LLP (hardcopy & e-copy)
Robert Casselberry, SNFT (e-copy)
Joe Montello, SNFT (e-copy)

APRIL 2015 ANNUAL MONITORING EVENT RESULTS SUMMIT NATIONAL SUPERFUND SITE

Prepared for:

SUMMIT NATIONAL SUPERFUND SITE
8186 State Route 224
Deerfield, Ohio 44411

Prepared by:

EAGON & ASSOCIATES, INC.
Worthington, Ohio

October 2015

Eagon & Associates, Inc.
100 Old Wilson Bridge Road, Suite 115
Worthington, Ohio 43085
(614) 888-5760

TABLE OF CONTENTS

Page

INTRODUCTION **1**

FIELD ACTIVITIES **2**
- Water Level and Total Well Depth Measurements 2
- Purging and Sampling of Monitoring Wells 2
- Surface Water and Sediment Sampling 3
- Decontamination Procedures 4
- Sample Control and Analysis 4

DATA VALIDATION **4**

GROUNDWATER QUALITY MONITORING RESULTS **5**
- Objectives 5
- Analytical Results 6
- Evaluation of the Sentinel Well Results 6
- Trends in Water-Quality 6
  - WTU On-site Wells (MW-11, MW-107, MW-108, MW-111, and MW-113) 7
  - WTU Off-Site Wells (MW-4, MW-114, and MW-115) 8
  - UIU On-Site Wells (MW-207, W-224) 8
  - UIU Off-Site Wells (MW-209, W-220) 8

WATER-LEVELS AND GROUNDWATER FLOW CONDITIONS **8**

EXTRACTION SYSTEM SHUTDOWN EVALUATION **9**

SURFACE WATER AND SEDIMENT MONITORING **10**
- Surface Water 10
- Sediment 11

INSTITUTIONAL CONTROLS – ANNUAL CERTIFICATION **12**

CONCLUSIONS **13**

MONITORING SCHEDULE **14**

FIGURES

Figure 1. Site Map
Figure 2. Potentiometric Surface of the Water Table Unit, April 20, 2015
Figure 3. Potentiometric Surface of the Upper Intermediate Unit, April 20, 2015
Figure 4. Hydrographs of On-Site Water Table Unit Wells
Figure 5. Hydrographs of Off-Site Water Table Unit Wells
Figure 6. Hydrograph of Upper Intermediate Unit Wells

TABLE OF CONTENTS

TABLES

Table 1. Summary of Water-Level Measurements, April 20, 2015
Table 2. Water-Quality Data Summary, April 2015 – Groundwater Monitoring Wells
Table 3. Water-Quality Data Summary, April 2015 – S&E Ditch Surface Water
Table 4. Sediment Analysis Data Summary, April 2015 – S&E Ditch Sediment
Table 5. Comparison of VOC Detections with MCLs, Water Table Unit Sentinel Wells, April 2015

APPENDICES

Appendix A. Laboratory Analytical Report and Field Forms, April 2015 Groundwater Quality Monitoring Event
Appendix B. Laboratory Analytical Reports and Field Forms, April 2015 S&E Ditch Surface Water and Sediment Sampling Results
Appendix C. Data Validation Results
Appendix D. Historical Groundwater Quality and Water-Level Elevation Data
Appendix E. Time-Series Plots of Water-Quality Data, Annual Monitoring Wells
Appendix F. Time-Series Plots of VOC Results, S&E Ditch Surface Water

PLATES

Plate 1. Water-Quality Data Results, Water Table Unit Wells, 2004 & 2009-2015
Plate 2. Water-Quality Data Results, Upper Intermediate Unit Wells, 2004 & 2009-2015

INTRODUCTION

The purpose of this report is to present the monitoring results from the April 2015 (annual) Groundwater Quality Monitoring Event at the Summit National Superfund Site (SNSS; Site) in Deerfield, Ohio. The sampling event was completed April 20 through 22, 2015 by personnel from Eagon and Associates, Inc. (Eagon).

The April 2015 sampling event included the collection of groundwater samples that were analyzed for the annual monitoring program's site-specific indicator parameter list (SSIPL) specified in Eagon's October 2014 report for the May 2014 five-year monitoring event. Results from the Site's five-year monitoring events are evaluated to determine the appropriate SSIPL for the subsequent annual monitoring events to be completed between the five-year events. Ohio EPA concurred with the current SSIPL in their May 12, 2015 letter summarizing their review of the October 2014 report.

Groundwater samples were collected from the 12 wells that make up the annual groundwater monitoring well network. In addition, sediment and surface water samples were collected from the surface water drainage at the southeast corner of the Site located at the confluence ("S&E Ditch") of surface water conveyances along the south and east boundaries of the Site. Water levels also were measured during the event in all monitoring wells and piezometers completed in the Water Table Unit (WTU) and Upper Intermediate Unit (UIU) monitoring horizons. The locations of all monitoring wells, piezometers, surface water, and sediment sampling points are shown on Figure 1.

All of the laboratory analytical work was performed by Accutest Laboratories of Dayton, New Jersey (Accutest). The parameters pH, specific conductance, temperature, and turbidity were measured in the field by Eagon personnel.

In accordance with the May 1, 1991 Consent Decree and the Scope of Work developed by U.S. EPA, including Ohio EPA oversight through 2014, the results from the April 2015 sampling event have been evaluated to identify any SSIPL volatile organic compound (VOC)

concentrations above maximum contaminant limits (MCLs) in off-site WTU "sentinel" wells MW-114 and MW-115. The data has also been evaluated for any significant changes that may have occurred since last year's five-year monitoring event. In addition, an evaluation of groundwater flow conditions observed during the event is presented herein.

FIELD ACTIVITIES

Water Level and Total Well Depth Measurements

Static water levels were measured at all WTU and UIU groundwater monitoring wells and piezometers on April 20, 2015, prior to initiating purging and sampling at any of the monitoring wells. Total depth measurements also were measured at that time in the monitoring wells to be sampled during the event. Water-level and total well-depth measurements were taken using a portable electric tape and recorded to the nearest 0.01 foot and are summarized in Table 1.

Purging and Sampling of Monitoring Wells

Monitoring well purging and sampling utilized during the event were in accordance with the facility's approved Quality Assurance Project Plan (QAPP) (Conestoga Rovers & Associates, July 1994, Revised November 1996, and modified per Ohio EPA correspondence dated April 28, 2010) and standard practices employed at the Site historically. Prior to sampling, a minimum of three standing water column volumes (casing and screen) were evacuated from wells with sufficient recharge rates to ensure that the samples collected were representative of formation water at the time of sampling. Low-yielding wells were purged to dryness prior to sampling. Monitoring wells were purged using dedicated Waterra-brand foot valves and dedicated tubing or non-dedicated Grundfos-brand electric submersible pumps equipped with dedicated discharge tubing. The methods and procedures used at each sample point are reflected on the Field Information Forms included in Appendix A.

Temperature, pH, and specific conductance were measured after each successive well volume was purged to monitor chemical stabilization of the purge water prior to sample collection. If field parameters had not stabilized after three well volumes had been evacuated, purging continued until parameters stabilized, five well volumes had been evacuated, or the well was purged to dryness. A field turbidity measurement was obtained at the time of sample collection at each well. All field parameter measurements were recorded on Field Information Forms completed for each well (Appendix A). Once purging was complete, all purging equipment was removed from the well.

Samples typically were collected on the same day as purging and no later than 24 hours after purging. Four of the 12 wells were purged to dryness and all wells recovered sufficiently to collect complete sample sets.

All monitoring wells were sampled using a non-dedicated stainless steel bailer that was thoroughly decontaminated between sample points. Once sampling was complete, any dedicated equipment (i.e., foot valves and tubing) was placed back down into the wells. Non-dedicated equipment (e.g., bailers and purge pumps) was decontaminated per the procedures described in the QAPP, placed in capped PVC sleeves, and stored on-site.

All of the purge water and water used to decontaminate the purging and sampling equipment was containerized on-site, prior to transfer to an appropriate disposal facility: Carbon Limestone Landfill in Lowellville, Ohio.

Surface Water and Sediment Sampling

The S&E Ditch surface water sample was collected by directly filling the sample bottles using a trickle-fill technique ensuring that the sample was not agitated and that no preservative was flushed from the bottles. Sediment samples were collected using a stainless-steel spoon and bowl. Sediment samples for VOC analysis were collected using En Core 5 gram soil cores filled directly from the stainless-steel bowl, prior to homogenizing the soil. Sediment samples for all

other analyses were then homogenized within the stainless-steel bowl prior to filling the appropriate sample jars.

Decontamination Procedures

Equipment decontamination procedures were employed to prevent cross-contamination of sample water between wells. The water-level tape used to measure water levels and well depths was wiped down with a paper towel soaked with a phosphate-free detergent (Liquinox), then thoroughly rinsed with distilled or deionized water between wells. Grundfos pumps were washed with a Liquinox solution and thoroughly rinsed with distilled or deionized water, then wiped with a clean paper towel before use at each well. The pumps were turned on during decontamination to ensure that the internal parts of the pump were cleaned. Stainless steel bailers were also washed with a Liquinox solution, thoroughly rinsed with distilled or deionized water, and then wiped dry with a clean paper towel. The stainless steel bailers were stored in dedicated, capped PVC sleeves when not in use.

Sample Control and Analysis

Sample containers collected at each sample point were labeled and placed in coolers with bags of ice prior to shipment. Coolers were shipped via FedEx to Accutest. Each cooler contained a chain of custody (COC) form that included sample identifications, dates and times of sample collection, and the requested analyses. Copies of the COCs from the April 2015 event are included within the laboratory analytical reports presented in Appendices A and B. All groundwater samples were submitted to the laboratory to be analyzed for the Site's SSIPL VOCs. The surface water and sediment samples were submitted for analysis of Target Compound List (TCL) VOCs and TCL semivolatile organic compounds (SVOCs).

DATA VALIDATION

Data validation completed for the laboratory analytical results for the groundwater and S&E Ditch samples is presented in Appendix C. The groundwater analytical data were reviewed

using procedures contained in the "U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review" (June 2008) and the "U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" (January 2010). No data were rejected and the data validation confirmed that the data are suitable for use in support of the goals and objectives of the monitoring program.

GROUNDWATER QUALITY MONITORING RESULTS

Objectives

The objectives of the annual groundwater monitoring program for the Summit National Superfund Site are to characterize any changes in groundwater quality in the WTU and UIU underlying the interior affected area of the Site and in the sentinel wells downgradient of the Site. The results from the sentinel wells were evaluated using the extraction system shutdown contingency criteria established for the Site in 2010, as follows:

> *"If VOCs above their respective maximum contaminant level (MCL) are detected in the Sentinel wells (off-site downgradient WTU monitoring wells MW-114 and MW-115), SNFT will evaluate options to mitigate the release (e.g., restart the groundwater extraction system, implement in-situ chemical oxidation (ISCO) to treat the released groundwater, phytoremediation, etc.). The Sentinel wells are located 70 to 80 feet south of the southern property boundary and wet well of the pipe and media drain. During pumping of groundwater from the pipe and media drain, the WTU zone of groundwater capture extends 100 to 200 feet south of the pipe and media drain at the wet well. In this case, off-site downgradient WTU monitoring wells MW-116, MW-117 and MW-118 (approximately 230 feet south of the southern property boundary) will be used to verify whether there is any long term impact to the groundwater south of the Site and outside the influence of the pipe and media drain."*

Analytical Results

In accordance with the O&M Plan, QAPP, and the Ohio EPA approved recommendations presented in October 2014 report for the May 2014 event, the April 2015 annual groundwater monitoring event included sampling of eight monitoring wells completed in the WTU and four wells completed in the UIU. The samples were analyzed for the SSIPL VOCs and the results are summarized on Table 2. The laboratory analytical report for the groundwater monitoring event is presented in Appendix A. Appendix D contains the historical groundwater quality and water-level elevation data collected at the Site.

A summary of all of the SSIPL VOC results for the WTU and UIU annual event monitoring wells during the post-shutdown period (2004 and 2009-2015) are presented on Plates 1 and 2, respectively.

Evaluation of the Sentinel Well Results

The historical SSIPL VOC results for the WTU sentinel wells (MW-114 and MW-115) are presented in Appendix D. No new VOC detections were identified in any of these wells. Only two SSIPL VOC detections (cis-1,2-Dichloroethane and 1,1-Dichloroethane) were observed in the sentinel wells (MW-115) during the April 2015 annual event (Table 2). All results were consistent with historical results and no MCLs were exceeded. Table 5 summarizes the detections at the sentinel wells and presents a comparison with MCLs. The absence of any SSIPL VOC detections at or above MCLs in off-site sentinel wells MW-114 and MW-115 confirms that the Site continues to achieve the objective of on-site containment of waste-derived constituents.

Trends in Water-Quality

The historical water-quality data collected at the Site, along with results from the April 2015 annual sampling event, are shown on time-series plots presented in Appendix E. Time-series plots of the SSIPL VOC concentrations were generated for each WTU and UIU well

in the annual monitoring program. A summary of notable observations for each well is presented below.

WTU On-site Wells (MW-11, MW-107, MW-108, MW-111, and MW-113)

MW-11: Displays sustained downward concentration trends or recently flattening trends in all constituents detected during the event: 1,1-Dichloroethane, 1,2-Dichloroethane, Benzene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Trichloroethene, and Vinyl Chloride.

MW-107: Displays recently flattening or recent or sustained downward trends for all 11 constituents detected this event (Table 2).

MW-108: Concentration trends remain upward for some VOCs detected during the event, including: 1,1-Dichloroethane, Benzene and 1,2-Dichloroethene (total). However, a greater number of constituents routinely detected in the well display recent flattening or declining trends, including 1,1,1-Trichloroethane, 1,2-Dichloroethane, Ethylbenzene, Toluene, Trichloroethene, Vinyl Chloride, and Xylenes.

MW-111: An upward trend is observed for 1,2-Dichloroethane since 2011; however, concentrations remain below the historic maximum. Recent concentration trends for the other constituents detected at the well are generally flat (1,1-Dichloroethane, Chloroethane, cis-1,2-Dichloroethene, Vinyl Chloride) or declining (1,1,1-Trichloroethane; non-detect). Recent Vinyl Chloride trends remain relatively flat; however, the April 2015 concentration of 8.4 ug/L approached the historic maximum of 8.6 ug/L observed in 2004.

MW-113: No SSIPL VOCs were detected in MW-113 during the event, which is consistent with historical results. Low-level detections of Acetone observed in 2008, 2010, and 2012 have not occurred since 2012.

WTU Off-Site Wells (MW-4, MW-114, and MW-115)

As discussed previously, no SSIPL VOCs were detected in off-site WTU wells MW-4 and MW-114. At MW-115, only 1,1-Dichloroethane and cis-1,2-Dichloroethene were detected above their respective PQLs in MW-115 during the event, no MCLs were exceeded, no increasing trends are present, and both detections for April are at or near historical minimums observed at the well.

UIU On-Site Wells (MW-207, W-224)

No SSIPL compounds were detected in the on-Site UIU wells sampled in April 2015, which is consistent with previous monitoring results.

UIU Off-Site Wells (MW-209, W-220)

No SSIPL compounds were detected in the off-Site UIU wells sampled in 2015, with the exception of acetone at MW-209. Low-level Acetone concentrations have been sporadically detected in samples from the well since 2002. The April 2015 concentration of 5.1 ug/L was within the range of concentrations detected at the well and was marginally above the PQL of 5 ug/L.

WATER-LEVELS AND GROUNDWATER FLOW CONDITIONS

Groundwater levels in the WTU and UIU monitoring wells and piezometers at the Site were measured on April 20, 2015 and are presented on Table 1. The water-level measurements were converted to groundwater elevations and the results were used to construct potentiometric surface maps for the WTU and UIU during the monitoring event. The potentiometric surface and flow directions in each zone are presented on Figures 2 and 3. Hydrographs also were prepared for each monitoring well and piezometer in the WTU and are presented on Figure 4

(On-Site Wells) and Figure 5 (Off-Site Wells). Figure 6 presents hydrographs for all monitoring wells and piezometers in the UIU.

The groundwater elevation contours generated from the April 2015 hydraulic monitoring data demonstrate that the direction of groundwater flow was generally southeasterly in the WTU, consistent with past observations. The groundwater flow direction in the UIU bedrock was predominantly toward the east, with minor southeasterly or northeasterly flow components in some areas, and is consistent with both the post-shutdown and the pre-shutdown groundwater flow conditions in this unit.

The hydrographs on Figures 4, 5 and 6 show a continued minor, steady increasing trend in water levels in both the WTU and UIU since 1994. Water-level trends in the WTU also display the expected post-shutdown recovery response beginning late 2005. In general, observed water levels were at or near their historic maximums during the event in response to precipitation. Water levels ranged from approximately 1075 to 1100 ft, MSL in the WTU wells and 1077 to 1097 ft, MSL in the UIU wells during the event.

EXTRACTION SYSTEM SHUTDOWN EVALUATION

In the 2004 10-year groundwater evaluation (CRA, March 16, 2005), the Summit National Facility Trust (SNFT) requested permission to suspend operation of the groundwater extraction system. The request was based on the stability of on-site groundwater contaminant concentrations and the absence of an indication of adverse impacts to the off-site groundwater in any of the groundwater units, either before any remedial action at the Site or since the 11 years of active groundwater pumping operations. On June 10, 2005, CRA submitted a Work Plan for Groundwater Migration Evaluation to Ohio EPA. The Work Plan was approved by Ohio EPA on July 18, 2005. On August 31, 2005, the groundwater extraction and treatment system was shut down, which commenced the shutdown evaluation period. Semiannual post-shutdown groundwater monitoring was conducted at the Site from February 2006 through November 2008. A site-wide five-year monitoring event was completed in 2009 and annual Site-Specific Indicator Parameter List (SSIPL) events were performed in 2010 through 2013. Another site-wide five-year monitoring event was completed in May 2014 and confirmed that on-site contaminated

groundwater is not migrating off-site under the sustained non-pumping conditions. The April 2015 annual sampling results presented herein continue to demonstrate that contaminated groundwater is not migrating off-site. Plates 1 and 2 present a summary of the detected SSIPL VOC concentrations for the shutdown evaluation period of August 2005 through 2015 for the WTU and UIU, respectively.

Except for the anticipated increase in groundwater levels in the vicinity of the pipe and media drain after shutdown of the groundwater extraction system in August 2005, no significant changes in the groundwater flow conditions have been observed since system shutdown.

SURFACE WATER AND SEDIMENT MONITORING

Surface water and sediment samples were collected from the sediment pond located at the confluence of the south and east drainage ditches in April 2015. A summary table of the results for the S&E Ditch surface water samples is presented on Table 3. Table 4 is a summary of the S&E Ditch sediment samples. The laboratory analytical data reports for the surface water and sediment analyses are provided in Appendix B. It is noted that, as a result of a misunderstanding with the laboratory, matrix spike (MS) and matrix spike duplicate (MSD) samples collected for the surface water and sediment samples were analyzed by the laboratory as original samples in addition to the duplicate samples collected and were not evaluated by the laboratory for matrix effects. Those results are presented herein as additional samples for the surface water and sediment samples. The oversight has been addressed with laboratory personnel and the sampling team to ensure that MS/MSD samples will be handled appropriately during future monitoring events. Batch MS/MSD samples were analyzed with the samples and those results are discussed in the data validation discussion in Appendix C.

Surface Water

The surface water results show that only one parameter was detected at or above its PQL: cis-1,2-Dichloroethene. The reported concentration of 1.4 ug/L was only slightly above the PQL of 1 ug/L. The duplicate sample also had a similar detection (1.3 ug/L), as did the two additional

samples intended to be analyzed as MS/MSD samples (i.e., Surface Water #2 (1.4 ug/L) and Surface Water #3 (1.6 ug/L). No TCL SVOCs were detected in the surface water samples during the event. Historical results for the surface water samples are presented in the Site's water-quality database (Appendix B). Time-series plots of detected VOCs in the surface water are presented in Appendix F. As shown on the time-series plots, VOC detections in the surface water samples are within the range of historical values.

Sediment

The sediment samples included several parameters that were detected above their respective PQLs, including 2-Methylnapthalene, Di-n-butyl phthalate, Naphthalene, and Phenanthrene. Of these constituents, only Phenanthrene and Di-n-butyl phthalate, were detected above their PQLs in more than one of the four sediment samples collected. 2-Methylnapthalene, Phenanthrene, and Naphthalene have been detected consistently in the sediment samples and the April 2015 results were within the historical range of concentrations for these parameters. The presence of these constituents has been attributed to past coal mining activity in the vicinity of the site. The April 2015 sampling event is the first event in which Di-n-butyl phthalate has been detected in the sediment. Through 1999, Di-n-butyl phthalate detections were regularly reported for groundwater samples from background and downgradient wells in WTU, UIU, and LIU. The last detection in groundwater was in 2006 (WTU well MW-110). Phthalates, in general, are common laboratory contaminants and the detections in the April 2015 sediment samples are not believed to be from the Site. If detections of this parameter persist in the future, an evaluation of other potential sources may be warranted.

Table 4 shows the sediment sampling results from the April 2015 event compared with U.S. EPA Regional Screening Levels (RSLs; June 2015). As shown on the table, none of the quantified sediment concentrations, including the results for Di-n-butyl phthalate, exceeded their respective RSLs.

No VOCs were detected in the sediment samples and none of the parameters detected in the sediment sample were detected in the surface water samples from the event. Historical results for the sediment samples are presented in the Site's database (Appendix B).

Based on the results of the surface water and sediment samples from the April 2015 sampling event, there are no significant influences on surface water or sediment quality as the result of the Site.

INSTITUTIONAL CONTROLS – ANNUAL CERTIFICATION

SNFT received U.S. EPA's Fourth Five-Year Review Report (Report) on July 23, 2013. U.S. EPA noted in the Report that the components of the required Institutional Controls (ICs) had been implemented and all that remained was to ensure regular inspections of ICs at the Site. The implemented IC components included mapping and title work and development of an Environmental Covenant (EC). SNFT cooperated with the United States Department of Justice to appoint a receiver to execute an EC on the Vasi property that is the Site. The receiver was appointed by federal district court and the EC was executed and recorded on June 5, 2013 with the Portage County Recorder. The EC, based upon Ohio's Uniform Environmental Covenants Act, further secures activity and use limitations on the Site, grants EPA and the settling defendants access to the Site for the purpose of conducting any activity related to the Decree, and specifies that such requirements shall "run with the land" and, hence, be binding upon any future owner of the Site. U.S. EPA determined that an IC Plan was not necessary.

To address the need to conduct regular inspections of ICs at the Site, SNFT responded to U.S. EPA on September 24, 2013 of its intent to monitor the effectiveness of the Site's ICs. SNFT proposed that inspections of the ICs at the Site will be conducted on a quarterly basis and initiated in October 2013. On-site ICs pertain to monitoring use of land, groundwater, and surface water, along with the Site's remedial components. Inspections are recorded on the Quarterly Institutional Controls Inspection Report and maintained by the SNFT.

Through submission of this 2015 groundwater monitoring report for the annual monitoring event completed in April 2015, SNFT certifies that the Institutional Controls are in place and effective.

CONCLUSIONS

The monitoring results from the April 2015 monitoring event at the SNSS demonstrate that there continues to be no sign of significant migration of contaminants off-site since cessation of pump-and-treat operations in 2005 and support continuation of the current groundwater monitoring approach for the Site. Correspondingly, evaluation of 2010 performance criteria for continued shutdown of the groundwater extraction system shows that those conditions remain satisfied for the event. No MCLs were exceeded in off-site sentinel wells; therefore, no contingency measures were necessary. Shutdown of the treatment system has not resulted in migration of contaminants to off-site areas and the resumption of active groundwater extraction operations is not warranted at this time.

The results for sediment and surface water samples collected at the confluence of the south and east ditches adjacent to the site continue to show that concentrations of any constituents detected remain below actionable levels (i.e., U.S. EPA RSLs).

In accordance with the contingency actions defined for the Site, if future monitoring results indicate an MCL exceedance at one of the sentinel wells, the Summit National Facility Trust will coordinate with U.S. EPA and Ohio EPA to develop appropriate response measures, which could include additional groundwater sampling (e.g., wells farther downgradient), potential resumption of the operation of the pipe and media drain system, or alternate measures to address the apparent migration away from the Site.

MONITORING SCHEDULE

Based on the evaluation of the groundwater monitoring results from the April 2015 annual monitoring event, it is recommended that groundwater level and quality monitoring continue according to the schedule provided in the 2014 (five-year) monitoring report. Therefore, annual SSIPL monitoring is proposed for 2016 through 2018, as follows:

April-May 2016: Shutdown Wells - SSIPL VOCs
April-May 2017: Shutdown Wells - SSIPL VOCs
April-May 2018: Shutdown Wells - SSIPL VOCs

The "shutdown wells" to be monitored through 2018 are as follows:

1. WTU Wells:
   - On-site wells: MW-11, MW-107, MW-108, and MW-111
   - Off-site downgradient wells: MW-4, MW-113, MW-114, and MW-115

2. UIU Wells:
   - On-site wells: MW-207
   - Off-site downgradient wells: MW-209, MW-220, and MW-224

In addition, as required by the Consent Decree, a surface water and sediment sample will be collected from the confluence of the south and east drainage ditches annually, and will be analyzed for TCL VOCs and TCL SVOCs. The next five-year sampling event will be performed in accordance with the October 2014 report for the May 2014 monitoring event and is scheduled for spring 2019.

FIGURES

N

LEGEND

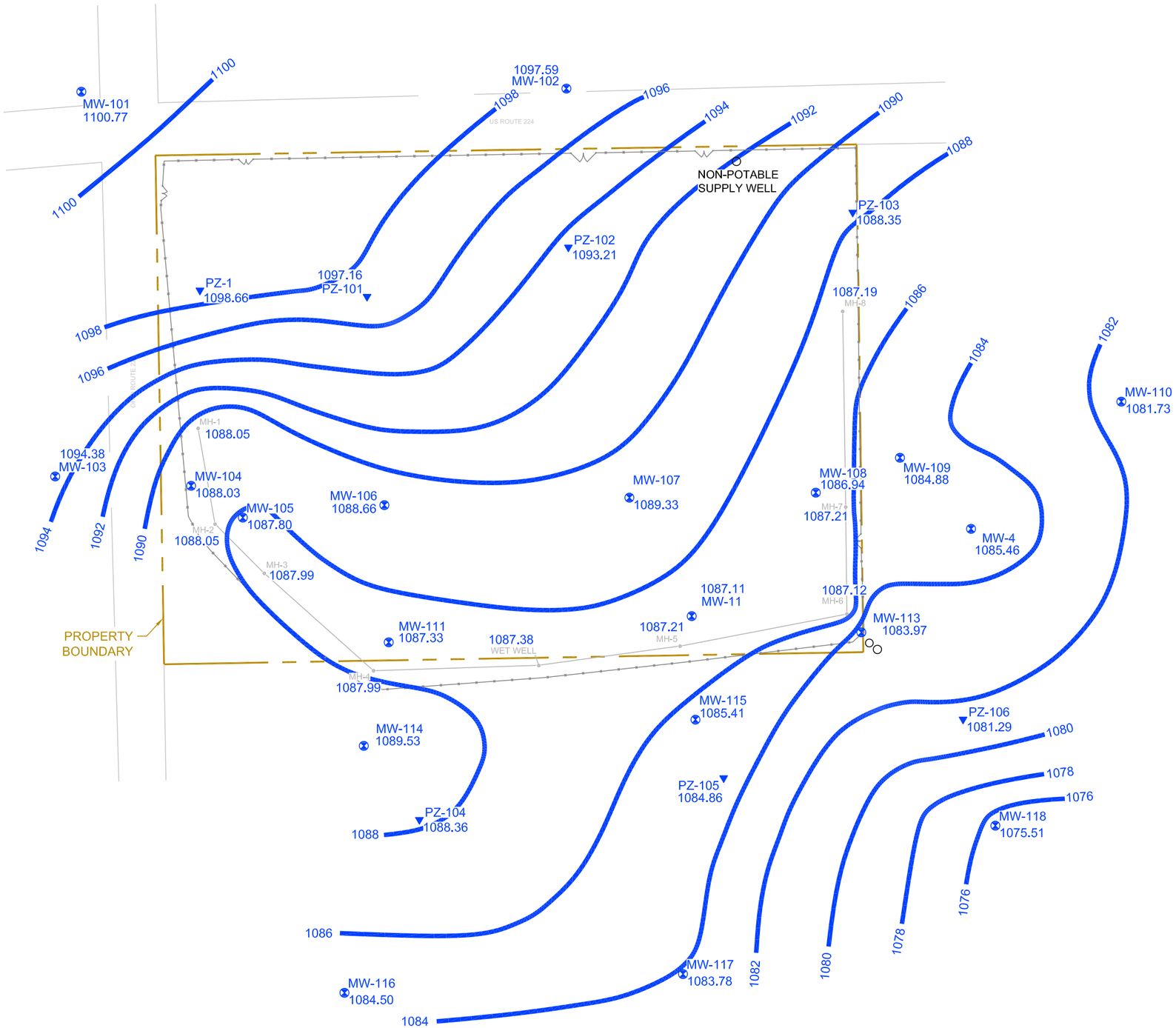
- MONITORING WELL
- PIEZOMETER
- MEDIA DRAIN MANHOLES
- ANNUAL MONITORING WELLS
- SEDIMENT SAMPLING LOCATION
- SURFACE WATER SAMPLING LOCATION

BLUE = WATER TABLE UNIT WELLS
ORANGE = UPPER INTERMEDIATE UNIT WELLS
GREEN = LOWER INTERMEDIATE UNIT WELLS
PURPLE = UPPER SHARON UNIT WELLS

SCALE IN FEET
0 125 250

COMPILED BY: NAK/SNB	FIGURE TITLE: SITE MAP	
DRAFTED BY: RPH	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE	
CHECKED BY: MTG	PREPARED BY: *EAGON & ASSOCIATES, INC.*	FIGURE NUMBER:
APPROVED BY: MTG	*100 OLD WILSON BRIDGE ROAD, SUITE 115*	1
DATE: JULY 24, 2015	*WORTHINGTON, OHIO 43085*	

F:\AUTOCAD\SUMMIT-NATIONAL\SUMMIT-NATIONAL-SITE-MAP.DWG 6/9/2015



N

LEGEND

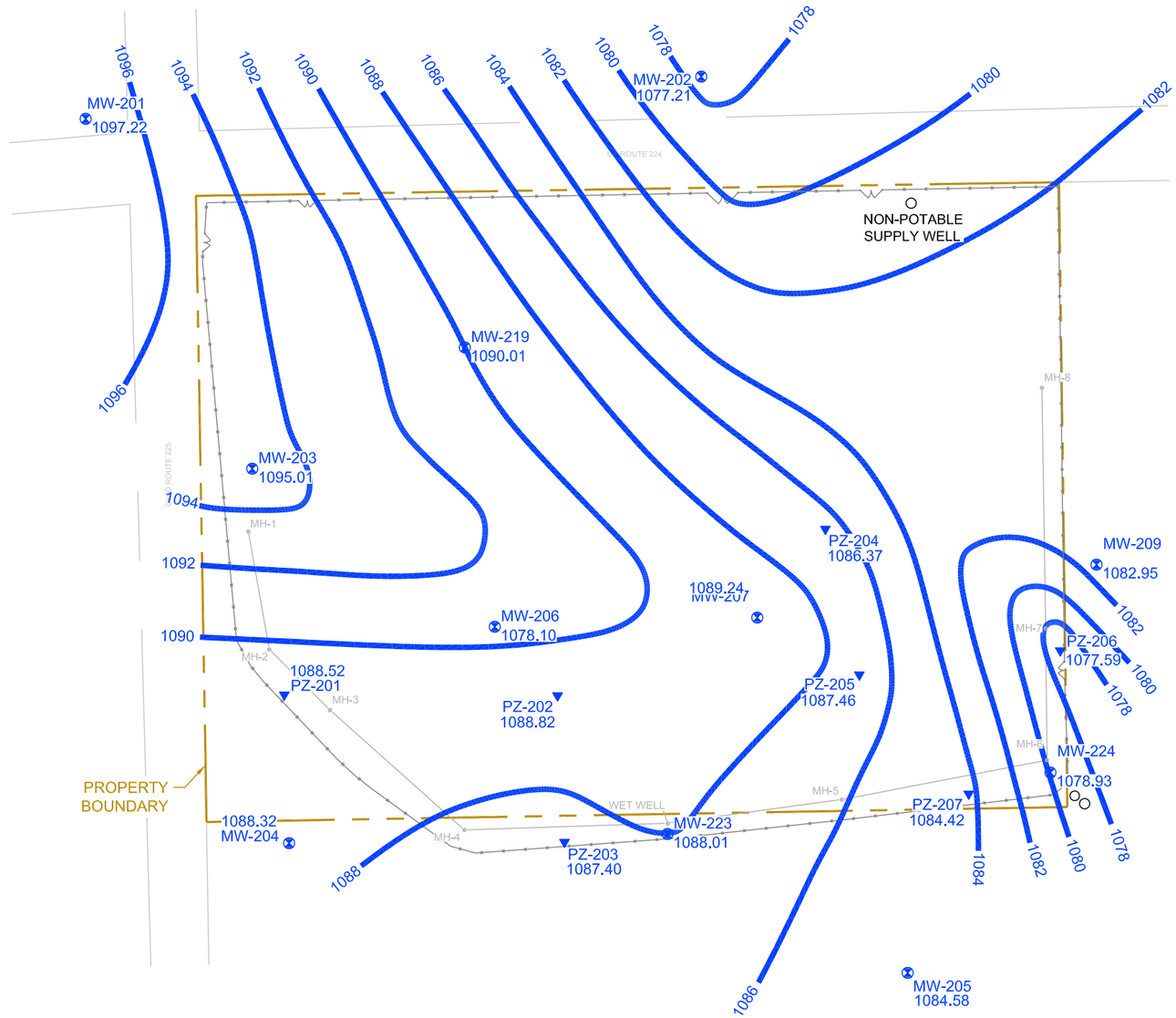
- MONITORING WELL
- PIEZOMETER
- MEDIA DRAIN MANHOLES
- SEDIMENT SAMPLING LOCATION
- SURFACE WATER SAMPLING LOCATION
- 1090 GROUND-WATER ELEVATION CONTOUR
- GROUND-WATER FLOW DIRECTION

SCALE IN FEET

0 125 250

COMPILED BY: NAK/SNB	FIGURE TITLE: POTENTIOMETRIC SURFACE OF THE WATER TABLE UNIT, APRIL 20, 2015
DRAFTED BY: RPH	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE
CHECKED BY: MTG	PREPARED BY: *EAGON & ASSOCIATES, INC.* *100 OLD WILSON BRIDGE ROAD, SUITE 115* *WORTHINGTON, OHIO 43085*
APPROVED BY: MTG	FIGURE NUMBER: 2
DATE: JULY 24, 2015	

F:\AUTOCAD\X\SUMMIT-NATIONAL\SUMMIT-NATIONAL-SITE-MAP.DWG 6/9/2015



LEGEND

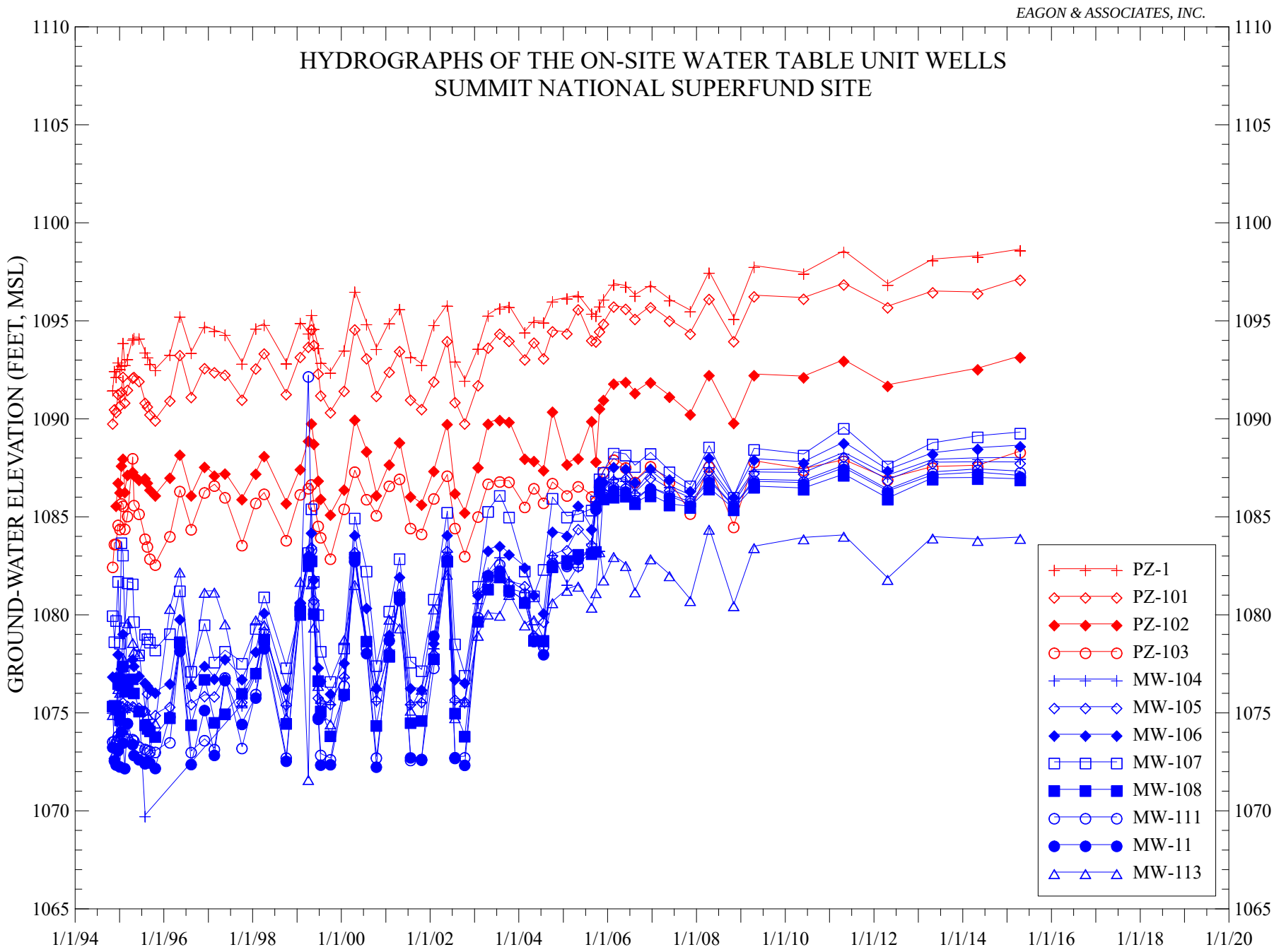
- MONITORING WELL
- PIEZOMETER
- MEDIA DRAIN MANHOLES
- SEDIMENT SAMPLING LOCATION
- SURFACE WATER SAMPLING LOCATION
- 1090 GROUND-WATER ELEVATION CONTOUR
- GROUND-WATER FLOW DIRECTION

SCALE IN FEET

0 125 250

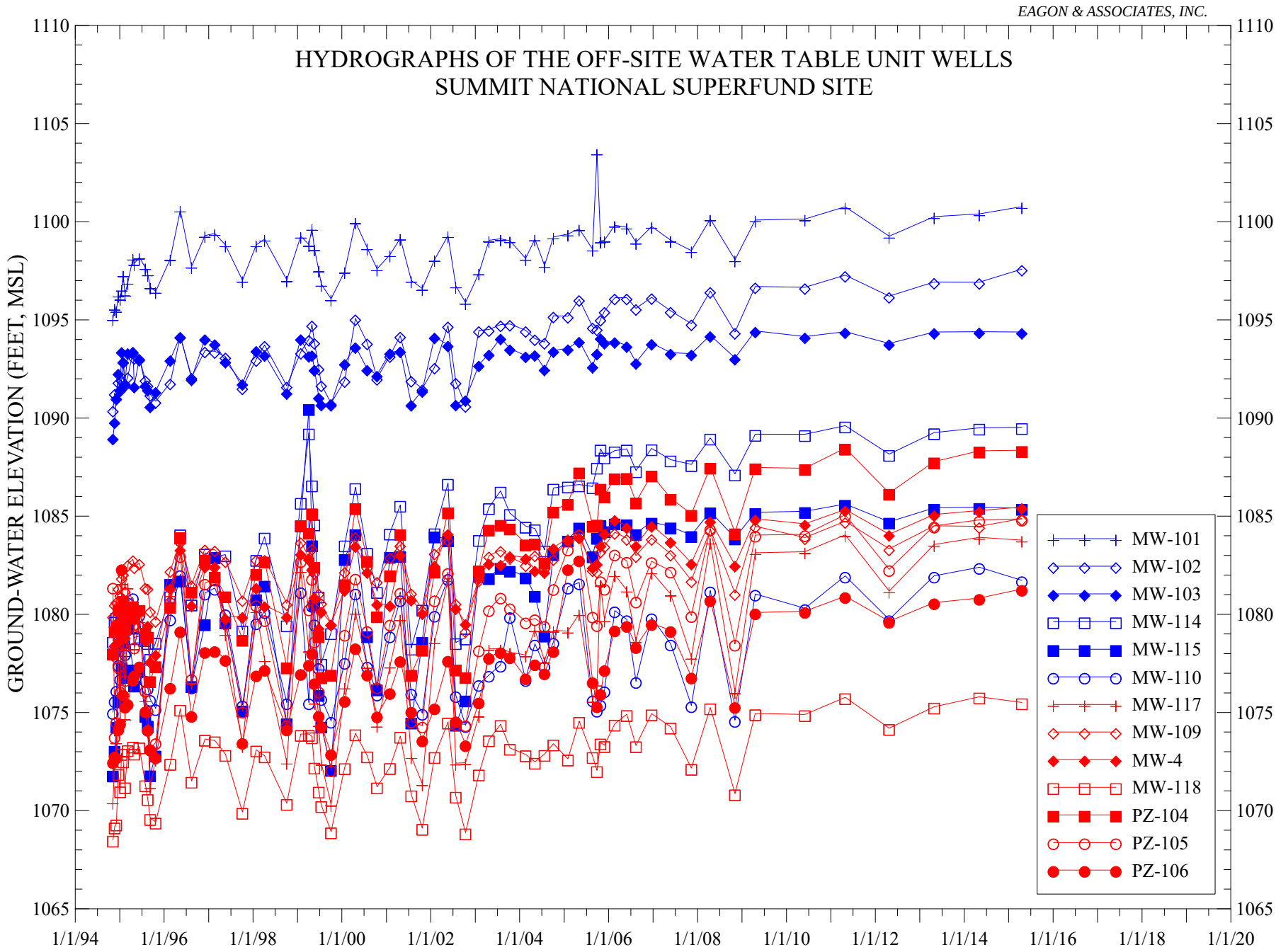
COMPILED BY: NAK/SNB	FIGURE TITLE: POTENTIOMETRIC SURFACE OF THE UPPER INTERMEDIATE UNIT, APRIL 20, 2015
DRAFTED BY: RPH	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE
CHECKED BY: MTG	PREPARED BY: *EAGON & ASSOCIATES, INC.* *100 OLD WILSON BRIDGE ROAD, SUITE 115* *WORTHINGTON, OHIO 43085*
APPROVED BY: MTG	FIGURE NUMBER: 3
DATE: JULY 24, 2015	

E:\AUTOCAD\SUMMIT-NATIONAL\SUMMIT-NATIONAL-SITE-MAP.DWG 6/9/2015



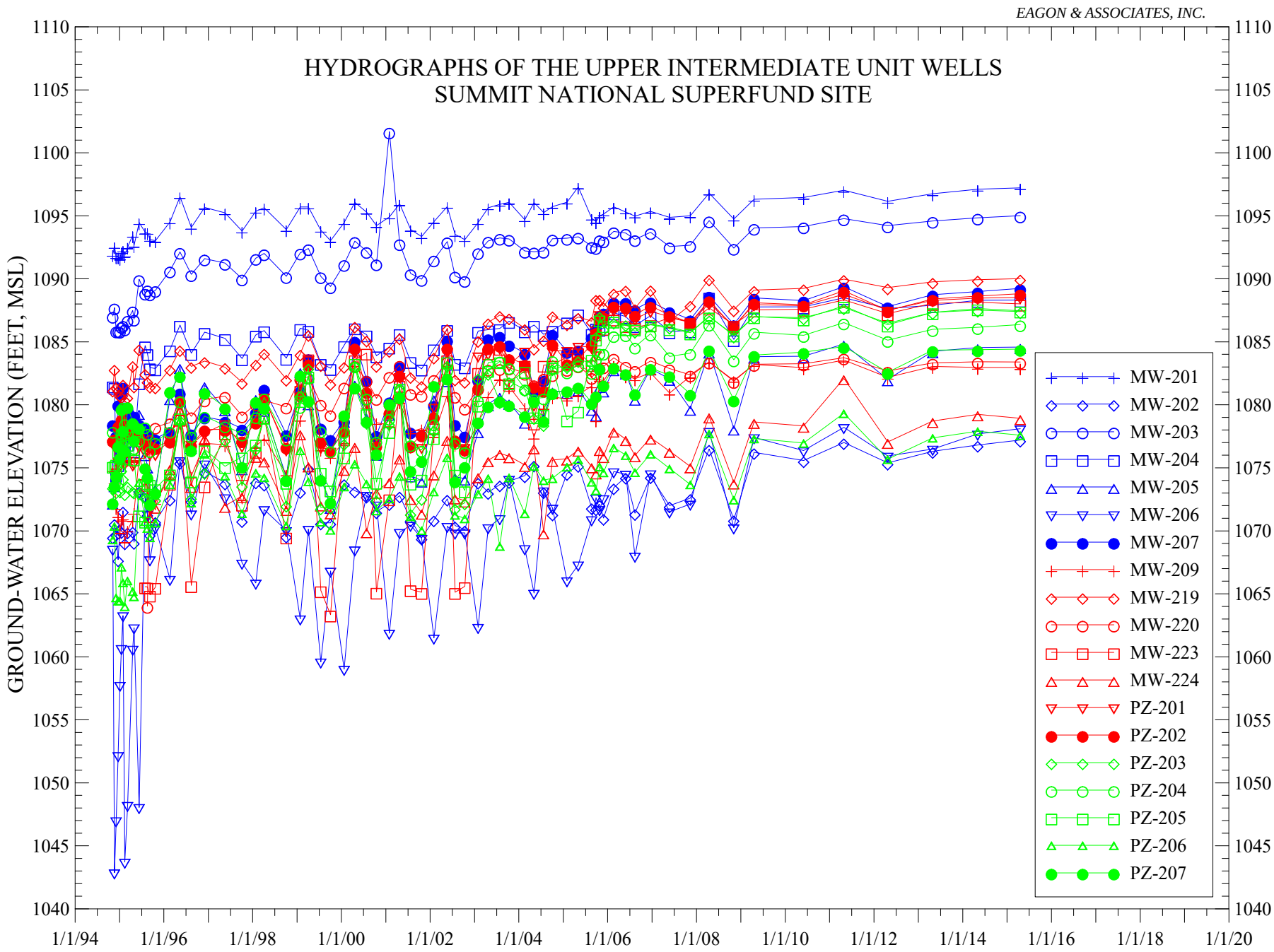
WTUhydsOnSite.GRF
7/24/2015

FIGURE 4.



WTUhydsOffSite.GRF
7/23/2015

FIGURE 5.



UIUhyds.GRF
7/24/2015

FIGURE 6.

TABLES

TABLE 1. SUMMARY OF WATER-LEVEL MEASUREMENTS
SUMMIT NATIONAL SUPERFUND SITE
APRIL 20, 2015

Measured By: A. Graham / N. Karow **Date:** 4/20/15

Well Number	Measuring Point Elevation (ft., MSL)	Time (24:00)	Depth to Water (feet)	Water Level Elevation (ft., MSL)	Total Well Depth (ft., TOC)	Comments
Water Table Unit (WTU) Monitoring Wells and Piezometers						
MW-4	1091.09	1105	5.63	1085.46	24.59	
MW-11	1095.93	1138	8.82	1087.11	26.43	
MW-101	1107.57	1003	6.80	1100.77	--	
MW-102	1100.17	0959	2.58	1097.59	--	
MW-103	1096.22	1012	1.84	1094.38	--	
MW-104	1099.81	1222	11.78	1088.03	--	
MW-105	1101.32	1219	13.52	1087.80	--	
MW-106	1102.88	1205	14.22	1088.66	--	
MW-107	1098.27	1146	8.94	1089.33	30.97	needs new tubing
MW-108	1091.96	1251	5.02	1086.94	18.42	
MW-109	1087.42	1123	2.54	1084.88	--	
MW-110	1086.87	1120	5.14	1081.73	--	
MW-111	1099.67	1214	12.34	1087.33	29.33	
MW-113	1088.46	1130	4.49	1083.97	16.46	
MW-114	1097.27	1049	7.74	1089.53	21.37	
MW-115	1101.83	1037	16.42	1085.41	40.70	
MW-116	1105.54	1020	21.04	1084.50	--	
MW-117	1123.97	1023	40.19	1083.78	--	
MW-118	1098.38	1113	22.87	1075.51	--	
PZ-1	1104.43	1226	5.77	1098.66	--	
PZ-101	1108.53	1229	11.37	1097.16	--	
PZ-102	1100.21	1300	7.00	1093.21	--	
PZ-103	1093.98	1256	5.63	1088.35	--	
PZ-104	1097.54	1035	9.18	1088.36	--	
PZ-105	1101.60	1039	16.74	1084.86	--	
PZ-106	1102.23	1110	20.94	1081.29	--	

TABLE 1. SUMMARY OF WATER-LEVEL MEASUREMENTS
SUMMIT NATIONAL SUPERFUND SITE
APRIL 20, 2015

Measured By: A. Graham / N. Karow **Date:** 4/20/15

Well Number	Measuring Point Elevation (ft., MSL)	Time (24:00)	Depth to Water (feet)	Water Level Elevation (ft., MSL)	Total Well Depth (ft., TOC)	Comments
Water Table Unit Media Drain Manholes						
MH-1	1102.78	1233	14.73	1088.05	--	
MH-2	1101.04	1239	12.99	1088.05	--	
MH-3	1100.95	1240	12.96	1087.99	--	
MH-4	1100.05	1242	12.06	1087.99	--	
MH-5	1095.68	1245	8.47	1087.21	--	
MH-6	1088.64	1247	1.52	1087.12	--	
MH-7	1089.29	1249	2.08	1087.21	--	
MH-8	1089.23	1255	2.04	1087.19	--	
Wet Well	1098.86	1243	11.48	1087.38	--	
Upper Intermediate Unit (UIU) Monitoring Wells and Piezometers						
MW-201	1107.52	1005	10.30	1097.22	--	
MW-202	1099.50	0955	22.29	1077.21	--	
MW-203	1103.35	1224	8.34	1095.01	--	
MW-204	1098.01	1052	9.69	1088.32	--	
MW-205	1100.90	1042	16.32	1084.58	--	
MW-206	1103.22	1209	25.12	1078.10	--	
MW-207	1098.51	1148	9.27	1089.24	49.78	
MW-209	1087.66	1125	4.71	1082.95	37.71	
MW-219	1108.24	1230	18.23	1090.01	--	
MW-220	1090.92	1058	7.52	1083.40	37.72	
MW-223	1098.37	1154	10.36	1088.01	--	
MW-224	1089.41	1135	10.48	1078.93	36.60	
PZ-201	1099.74	1217	11.22	1088.52	--	
PZ-202	1101.56	1202	12.74	1088.82	--	
PZ-203	1098.31	1159	10.91	1087.40	--	
PZ-204	1095.41	1144	9.04	1086.37	--	
PZ-205	1096.63	1141	9.17	1087.46	--	
PZ-206	1088.05	1127	10.46	1077.59	--	
PZ-207	1091.36	1133	6.94	1084.42	--	

TABLE 2.
WATER-QUALITY DATA SUMMARY, APRIL 2015
GROUND-WATER MONITORING WELLS
SUMMIT NATIONAL SUPERFUND SITE

Parameter	MW-4 4/21/2015	MW-11 4/21/2015	MW-107 4/21/2015	MW-107 (DUP) 4/21/2015	MW-108 4/21/2015	MW-111 4/20/2015	MW-111 (DUP) 4/20/2015	MW-113 4/21/2015	MW-114 4/21/2015	MW-115 4/21/2015	MW-207 4/21/2015	MW-209 4/21/2015	MW-220 4/21/2015	MW-224 4/20/2015	Rinse Blank #1	Rinse Blank #2	Trip Blank
	Water Table Unit Wells										Upper Intermediate Unit Wells				QA/QC Samples		
1,1,1-Trichloroethane	< 1	**20.1**	**27**	< 20	**4.4**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	**57.7**	**1550**	**1560**	**359**	**34.5**	**34.6**	< 1	< 1	**1.1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	**1.1**	**77.3**	**81.5**	**70**	**131**	**133**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	< 5	< 5	< 100	< 100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**5.1**	< 5	< 5	< 5	< 5	< 5
Benzene	< 0.5	J 0.33	**103**	**108**	**137**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	**62.3**	**60.3**	J 0.27	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	< 1	< 1	**20.4**	J 18.1	< 1	**1.6**	**1.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	**32.1**	**45.1**	**54.8**	**237**	**7.2**	**7.3**	< 1	< 1	**3.2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	**1220**	**1230**	J 0.43	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	< 1	< 1	**3960**	**3940**	J 0.95	< 1	< 1	< 1	< 1	< 1	< 1	J 0.39	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	< 1	**1.1**	< 20	< 20	**6.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	< 1	**45.9**	< 20	< 20	**32.1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	< 1	**3.6**	**55.4**	**60.1**	**114**	**8.4**	**8.9**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	< 1	< 1	**4140**	**4200**	J 0.36	J 0.2	J 0.19	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

All results in ug/L

Bold - Quantified Results

J = Estimated result less than practical quantitation limit and greater than method detection limit.

TABLE 3.
WATER-QUALITY DATA SUMMARY, APRIL 2015
S & E DITCH SURFACE WATER
SUMMIT NATIONAL SUPERFUND SITE

Parameter	Surface Water 4/22/2015	Surface Water (DUP) 4/22/2015	Surface Water (#2) 4/22/2015	Surface Water (#3) 4/22/2015	Field Blank	Trip Blank
Volatile Organic Compounds						
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	<1	<1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1	<1	<1
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1	<1	<1
1,1-Dichloroethane	< 1	< 1	< 1	< 1	<1	<1
1,1-Dichloroethene	< 1	< 1	< 1	< 1	<1	<1
1,2-Dichloroethane	< 1	< 1	< 1	< 1	<1	<1
1,2-Dichloroethene (total)	**1.4**	**1.3**	**1.4**	**1.6**	<1	<1
1,2-Dichloropropane	< 1	< 1	< 1	< 1	<1	<1
2-Butanone (MEK)	< 5	< 5	< 5	< 5	<5	<5
2-Hexanone	< 5	< 5	< 5	< 5	<5	<5
4-Methyl-2-pentanone(MIBK)	< 5	< 5	< 5	< 5	<5	<5
Acetone	< 5	< 5	< 5	< 5	<5	<5
Benzene	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5
Bromodichloromethane	< 1	< 1	< 1	< 1	<1	<1
Bromoform	< 1	< 1	< 1	< 1	<1	<1
Bromomethane	< 2	< 2	< 2	< 2	<2	<2
Carbon disulfide	< 2	< 2	< 2	< 2	<2	<2
Carbon tetrachloride	< 1	< 1	< 1	< 1	<1	<1
Chlorobenzene	< 1	< 1	< 1	< 1	<1	<1
Chloroethane	< 1	< 1	< 1	< 1	<1	<1
Chloroform	< 1	< 1	< 1	< 1	<1	<1
Chloromethane	< 1	< 1	< 1	< 1	<1	<1
cis-1,2-Dichloroethene	**1.4**	**1.3**	**1.4**	**1.6**	<1	<1
cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	<1	<1
Dibromochloromethane	< 1	< 1	< 1	< 1	<1	<1
Ethylbenzene	< 1	< 1	< 1	< 1	<1	<1
Methylene chloride	< 2	< 2	< 2	< 2	<2	<2
Styrene	< 1	< 1	< 1	< 1	<1	<1
Tetrachloroethene	< 1	< 1	< 1	< 1	<1	<1
Toluene	< 1	< 1	< 1	< 1	<1	<1
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1	<1	<1
trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	<1	<1
Trichloroethene	J 0.27	J 0.27	J 0.35	J 0.33	<1	<1
Vinyl chloride	< 1	< 1	< 1	< 1	<1	<1
Xylene (total)	< 1	< 1	< 1	< 1	<1	<1

All results in ug/L

Bold - Quantified result

J = Estimated result less than practical quantitation limit and greater than method detection limit.

TABLE 3.
WATER-QUALITY DATA SUMMARY, APRIL 2015
S & E DITCH SURFACE WATER
SUMMIT NATIONAL SUPERFUND SITE

Parameter	Surface Water 4/22/2015	Surface Water (DUP) 4/22/2015	Surface Water (#2) 4/22/2015	Surface Water (#3) 4/22/2015	Field Blank
Semi-Volatile Organic Compounds					
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 5	< 5	< 5	< 5	< 5
2,4,6-Trichlorophenol	< 5	< 5	< 5	< 5	< 5
2,4-Dichlorophenol	< 2	< 2	< 2	< 2	< 2
2,4-Dimethylphenol	< 5	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	< 1	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 2	< 2	< 2	< 2	< 2
2-Chlorophenol	< 5	< 5	< 5	< 5	< 5
2-Methylnaphthalene	< 1	< 1	< 1	< 1	< 1
2-Methylphenol	< 2	< 2	< 2	< 2	< 2
2-Nitroaniline	< 5	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5	< 5
3&4-Methylphenol	< 2	< 2	< 2	< 2	< 2
3,3'-Dichlorobenzidine	< 2	< 2	< 2	< 2	< 2
3-Nitroaniline	< 5	< 5	< 5	< 5	< 5
4,6-Dinitro-o-cresol	< 5	< 5	< 5	< 5	< 5
4-Bromophenyl phenyl ether	< 2	< 2	< 2	< 2	< 2
4-Chloro-3-methyl phenol	< 5	< 5	< 5	< 5	< 5
4-Chloroaniline	< 5	< 5	< 5	< 5	< 5
4-Chlorophenyl phenyl ether	< 2	< 2	< 2	< 2	< 2
4-Nitroaniline	< 5	< 5	< 5	< 5	< 5
4-Nitrophenol	< 10	< 10	< 10	< 10	< 10
Acenaphthene	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	< 1	< 1	< 1	< 1	< 1
Anthracene	< 1	< 1	< 1	< 1	< 1
Benzo(a)anthracene	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 2	< 2	< 2	< 2	< 2
bis(2-Chloroethyl)ether	< 2	< 2	< 2	< 2	< 2
Butyl benzyl phthalate	< 2	< 2	< 2	< 2	< 2
Carbazole	< 1	< 1	< 1	< 1	< 1
Chrysene	< 1	< 1	< 1	< 1	< 1

All results in ug/L

TABLE 3.
WATER-QUALITY DATA SUMMARY, APRIL 2015
S & E DITCH SURFACE WATER
SUMMIT NATIONAL SUPERFUND SITE

Parameter	Surface Water 4/22/2015	Surface Water (DUP) 4/22/2015	Surface Water (#2) 4/22/2015	Surface Water (#3) 4/22/2015	Field Blank
Semi-Volatile Organic Compounds (Continued)					
Dibenzo(a,h)anthracene	< 1	< 1	< 1	< 1	< 1
Dibenzofuran	< 5	< 5	< 5	< 5	< 5
Diethyl phthalate	< 2	< 2	< 2	< 2	< 2
Dimethyl phthalate	< 2	< 2	< 2	< 2	< 2
Di-n-butyl phthalate	< 2	< 2	< 2	< 2	< 2
Di-n-octyl phthalate	< 2	< 2	< 2	< 2	< 2
Fluoranthene	< 1	< 1	< 1	< 1	< 1
Fluorene	< 1	< 1	< 1	< 1	< 1
Hexachlorobenzene	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 10	< 10	< 10	< 10	< 10
Hexachloroethane	< 2	< 2	< 2	< 2	< 2
Indeno(1,2,3-cd)pyrene	< 1	< 1	< 1	< 1	< 1
Isophorone	< 2	< 2	< 2	< 2	< 2
Naphthalene	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	< 2	< 2	< 2	< 2	< 2
N-Nitroso-di-n-propylamine	< 2	< 2	< 2	< 2	< 2
N-Nitrosodiphenylamine	< 5	< 5	< 5	< 5	< 5
Pentachlorophenol	< 5	< 5	< 5	< 5	< 5
Phenanthrene	< 1	< 1	< 1	< 1	< 1
Phenol	< 2	< 2	< 2	< 2	< 2
Pyrene	< 1	< 1	< 1	< 1	< 1

All results in ug/L

Bold - Quantified result

TABLE 4.
SEDIMENT ANALYSIS DATA SUMMARY, APRIL 2015
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	S&E Ditch Sediment 4/22/2015	S&E Ditch Sediment (DUP) 4/22/2015	Sediment (#2) 4/22/2015	Sediment (#3) 4/22/2015	Rinsate Blank	Trip Blank	USEPA RSLs[1] Resident	USEPA RSLs[1] Industrial
Volatile Organic Compounds								
1,1,1-Trichloroethane	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	8100000	36000000
1,1,2,2-Tetrachloroethane	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	600	2700
1,1,2-Trichloroethane	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	1100	5000
1,1-Dichloroethane	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	3600	16000
1,1-Dichloroethene	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	230000	1000000
1,2-Dichloroethane	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	460	2000
1,2-Dichloroethene (total)	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	--	--
1,2-Dichloropropane	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	1000	4400
2-Butanone (MEK)	< 13	< 15	< 14	< 13	< 5	< 10	27000000	190000000
2-Hexanone	< 6.6	< 7.3	< 6.8	< 6.6	< 5	< 5	200000	1300000
4-Methyl-2-pentanone(MIBK)	< 6.6	< 7.3	< 6.8	< 6.6	< 5	< 5	5300000	56000000
Acetone	< 13	< 15	< 14	< 13	< 5	< 10	61000000	670000000
Benzene	< 0.66	< 0.73	< 0.68	< 0.66	< 0.5	< 0.5	1200	5100
Bromodichloromethane	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	290	1300
Bromoform	< 6.6	< 7.3	< 6.8	< 6.6	< 1	< 5	190000	86000
Bromomethane	< 6.6	< 7.3	< 6.8	< 6.6	< 2	< 5	6800	30000
Carbon disulfide	< 2.7	< 2.9	< 2.7	< 2.7	< 2	< 2	770000	3500000
Carbon tetrachloride	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	650	2900
Chlorobenzene	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	280000	1300000
Chloroethane	< 6.6	< 7.3	< 6.8	< 6.6	< 1	< 5	14000000	57000000
Chloroform	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	320	1400
Chloromethane	< 6.6	< 7.3	< 6.8	< 6.6	< 1	< 5	110000	460000
cis-1,2-Dichloroethene	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	160000	2300000
cis-1,3-Dichloropropene	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	--	--
Dibromochloromethane	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	750	3300
Ethylbenzene	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	5800	25000
Methylene chloride	< 6.6	< 7.3	< 6.8	< 6.6	< 2	< 5	57000	1000000
Styrene	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	6000000	35000000
Tetrachloroethene	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	2400	100000
Toluene	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	4900000	47000000
trans-1,2-Dichloroethene	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	1600000	23000000
trans-1,3-Dichloropropene	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	--	--
Trichloroethene	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	940	6000
Vinyl chloride	< 2.7	< 2.9	< 2.7	< 2.7	< 1	< 2	59	1700
Xylene (total)	< 1.3	< 1.5	< 1.4	< 1.3	< 1	< 1	650000	2800000

All values in ug/Kg, except Rinsate Blank (ug/L)

[1]USEPA, Region 9, Regional Screening Levels (RSL); June 2015 (revised)

Bold - Quantified Result

J = Estimated result less than practical quantitation limit and greater than method detection limit.

TABLE 4.
SEDIMENT ANALYSIS DATA SUMMARY, APRIL 2015
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	S&E Ditch Sediment 4/22/2015	S&E Ditch Sediment (DUP) 4/22/2015	Sediment (#2) 4/22/2015	Sediment (#3) 4/22/2015	Rinsate Blank	USEPA RSLs[1] Resident	USEPA RSLs[1] Industrial
Semi-Volatile Organic Compounds							
1,2,4-Trichlorobenzene	< 100	< 100	< 88	< 91	< 1	24000	110000
1,2-Dichlorobenzene	< 100	< 100	< 88	< 91	< 1	1800000	9300000
1,3-Dichlorobenzene	< 100	< 100	< 88	< 91	< 1	--	--
1,4-Dichlorobenzene	< 100	< 100	< 88	< 91	< 1	2600	11000
2,4,5-Trichlorophenol	< 260	< 250	< 220	< 230	< 5	2300000	82000000
2,4,6-Trichlorophenol	< 260	< 250	< 220	< 230	< 5	49000	210000
2,4-Dichlorophenol	< 260	< 250	< 220	< 230	< 2	190000	2500000
2,4-Dimethylphenol	< 260	< 250	< 220	< 230	< 5	1300000	16000000
2,4-Dinitrophenol	< 260	< 250	< 220	< 230	< 10	130000	1600000
2,4-Dinitrotoluene	< 52	< 51	< 44	< 46	< 1	1700	7400
2,6-Dinitrotoluene	< 52	< 51	< 44	< 46	< 1	360	1500
2-Chloronaphthalene	< 100	< 100	< 88	< 91	< 2	4800000	60000000
2-Chlorophenol	< 100	< 100	< 88	< 91	< 5	390000	5800000
2-Methylnaphthalene	J 48.6	J 58	**131**	J 68.2	< 1	240000	3000000
2-Methylphenol	< 100	< 100	< 88	< 91	< 2	3200000	41000000
2-Nitroaniline	< 260	< 250	< 220	< 230	< 5	630000	8000000
2-Nitrophenol	< 260	< 250	< 220	< 230	< 5	--	--
3&4-Methylphenol	< 100	< 100	< 88	< 91	< 2	6300000	82000000
3,3'-Dichlorobenzidine	< 100	< 100	< 88	< 91	< 2	1200	5100
3-Nitroaniline	< 260	< 250	< 220	< 230	< 5	--	--
4,6-Dinitro-o-cresol	< 260	< 250	< 220	< 230	< 5	5100	66000
4-Bromophenyl phenyl ether	< 100	< 100	< 88	< 91	< 2	--	--
4-Chloro-3-methyl phenol	< 260	< 250	< 220	< 230	< 5	6300000	82000000
4-Chloroaniline	< 260	< 250	< 220	< 230	< 5	2700	11000
4-Chlorophenyl phenyl ether	< 100	< 100	< 88	< 91	< 2	--	--
4-Nitroaniline	< 260	< 250	< 220	< 230	< 5	27000	110000
4-Nitrophenol	< 520	< 510	< 440	< 460	< 10	--	--
Acenaphthene	< 52	< 51	< 44	< 46	< 1	2600000	45000000
Acenaphthylene	< 52	< 51	< 44	< 46	< 1	--	--
Anthracene	< 52	< 51	< 44	< 46	< 1	18000000	230000000
Benzo(a)anthracene	< 52	< 51	< 44	J 24.1	< 1	160	2900
Benzo(a)pyrene	< 52	< 51	< 44	J 19.2	< 1	16	290
Benzo(b)fluoranthene	< 52	< 51	J 22	J 26.7	< 1	160	2900
Benzo(g,h,i)perylene	< 52	< 51	J 30.4	J 28.2	< 1	--	--
Benzo(k)fluoranthene	< 52	< 51	< 44	< 46	< 1	1600	29000
bis(2-Chloroethoxy)methane	< 100	< 100	< 88	< 91	< 2	190000	2500000
bis(2-Chloroethyl)ether	< 100	< 100	< 88	< 91	< 2	230	1000
Butyl benzyl phthalate	< 100	< 100	< 88	< 91	< 2	290000	1200000
Carbazole	< 100	< 100	< 88	< 91	< 1	--	--
Chrysene	< 52	< 51	J 24.9	J 24.5	< 1	16000	290000
Dibenzo(a,h)anthracene	< 52	< 51	< 44	< 46	< 1	16	290

All values in ug/Kg, except Rinsate Blank (ug/L)

[1]USEPA, Region 9, Regional Screening Levels (RSL); June 2015 (revised)

Bold - Quantified Result

J = Estimated result less than practical quantitation limit and greater than method detection limit.

TABLE 4.
SEDIMENT ANALYSIS DATA SUMMARY, APRIL 2015
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	S&E Ditch Sediment 4/22/2015	S&E Ditch Sediment (DUP) 4/22/2015	Sediment (#2) 4/22/2015	Sediment (#3) 4/22/2015	Rinsate Blank	USEPA RSLs[1] Resident	USEPA RSLs[1] Industrial
Semi-Volatile Organic Compounds (Continued)							
Dibenzofuran	< 100	< 100	J 29.4	< 91	< 5	73000	1000000
Diethyl phthalate	< 100	< 100	< 88	< 91	< 2	51000000	660000000
Dimethyl phthalate	< 100	< 100	< 88	< 91	< 2	--	--
Di-n-butyl phthalate	J 53.2	**210**	J 79.2	**99.9**	< 2	6300000	82000000
Di-n-octyl phthalate	< 100	< 100	< 88	< 91	< 2	630000	8200000
Fluoranthene	< 52	< 51	J 27.5	J 28.5	< 1	2400000	30000000
Fluorene	< 52	< 51	< 44	< 46	< 1	2400000	30000000
Hexachlorobenzene	< 100	< 100	< 88	< 91	< 1	210	960
Hexachlorobutadiene	< 52	< 51	< 44	< 46	< 1	1200	5300
Hexachlorocyclopentadiene	< 520	< 510	< 440	< 460	< 10	1800	7500
Hexachloroethane	< 260	< 250	< 220	< 230	< 2	1800	8000
Indeno(1,2,3-cd)pyrene	< 52	< 51	< 44	< 46	< 1	160	2900
Isophorone	< 100	< 100	< 88	< 91	< 2	570000	2400000
Naphthalene	J 30.6	J 33.1	**75.4**	J 26.9	< 1	2800	17000
Nitrobenzene	< 100	< 100	< 88	< 91	< 2	5100	22000
N-Nitroso-di-n-propylamine	< 100	< 100	< 88	< 91	< 2	78	330
N-Nitrosodiphenylamine	< 260	< 250	< 220	< 230	< 5	110000	4700000
Pentachlorophenol	< 260	< 250	< 220	< 230	< 5	1000	4000
Phenanthrene	J 34.6	J 48.8	**98.3**	**56**	< 1	--	--
Phenol	< 100	< 100	< 88	< 91	< 2	1700000	17000000
Pyrene	< 52	J 20.9	J 36	J 32.6	< 1	1800000	23000000

All values in ug/Kg, except Rinsate Blank (ug/L)

[1]USEPA, Region 9, Regional Screening Levels (RSL); June 2015 (revised)

Bold - Quantified Result

J = Estimated result less than practical quantitation limit and greater than method detection limit.

TABLE 5.
COMPARISON OF VOC DETECTIONS WITH MCLs
WATER TABLE UNIT SENTINEL WELLS
APRIL 2015 GROUND-WATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE

Well ID	Parameter	Units	April 2015 Result	MCL	Exceeds MCL (Yes/No)
Sentinel Wells (WTU)					
MW-114	VOCs	ug/l	ND	--	No
MW-115	1,1-Dichloroethane	ug/l	1.1	--	NA
MW-115	cis-1,2-Dichloroethene	ug/l	3.2	70	No

VOCs - Includes all SSIPL constituents

ND - No VOCs detected

APPENDIX A.

LABORATORY ANALYTICAL REPORT AND FIELD FORMS APRIL 2015 GROUNDWATER QUALITY MONITORING EVENT

SAMPLE IDENTIFICATION SUMMARY
APRIL 2015 SAMPLING EVENT
SUMMIT NATIONAL SUPERFUND SITE

Sample ID	Sample Name	Lab ID
Investigative Samples (GW)		
MW-4	GW-042115-EA-008	JB93083-6
MW-11	GW-042115-EA-013	JB93083-11
MW-107	GW-042115-EA-015	JB93083-13
MW-108	GW-042115-EA-018	JB93083-16
MW-111	GW-042015-EA-004	JB93083-2
MW-113	GW-042115-EA-009	JB93083-7
MW-114	GW-042115-EA-012	JB93083-10
MW-115	GW-042115-EA-011	JB93083-9
MW-207	GW-042115-EA-014	JB93083-12
MW-209	GW-042115-EA-007	JB93083-5
MW-220	GW-042115-EA-006	JB93083-4
MW-224	GW-042015-EA-001	JB93083-1
QA/QC Samples (GW)		
Duplicate #1	GW-042015-EA-005	JB93083-3
Duplicate #2	GW-042115-EA-016	JB93083-14
MS	GW-042015-EA-002	JB93083-1S
MSD	GW-042015-EA-003	JB93083-1D
Rinse Blank #1	RB-042115-EA-010	JB93083-8
Rinse Blank #2	RB-042015-EA-017	JB93083-15
Investigative Sample (Ditch)		
S&E Ditch Sediment	SD-042215-EA-024	JB93065-1
QA/QC Samples (Ditch)		
S&E Ditch Sediment (DUP)	SD-042215-EA-027	JB93065-4
S&E Ditch Sediment (DUP-2)	SD-042215-EA-025	JB93065-2
S&E Ditch Sediment (DUP-3)	SD-042215-EA-026	JB93065-3
S&E Ditch Sediment (RB)	RB-042215-EA-028	JB93065-5
Investigative Sample (Surface Water)		
Surface Water	SW-042215-EA-019	JB93082-1
QA/QC Samples (Surface Water)		
Surface Water (DUP)	SW-042215-EA-022	JB93082-4
Surface Water (FB)	FB-042215-EA-023	JB93082-5
Surface Water (DUP-2)	SW-042215-EA-020	JB93082-2
Surface Water (DUP-3)	SW-042215-EA-021	JB93082-3

Notes:

DUP - Duplicate; RB - Rinse Blank; FB - Field Blank; MS - Matrix Spike; MSD - Matrix Spike Duplicate

New Jersey
ACCUTEST LABORATORIES

Reissue #1
06/17/15

Technical Report for

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Accutest Job Number: JB93083

Sampling Dates: 04/20/15 - 04/21/15

Report to:

Eagon & Associates, Inc.
100 West Old Wilson Bridge Road Suite 115
Worthington, OH 43085
MGibson@eagon.cc; A.Graham@eagon.cc

ATTN: Michael T. Gibson

Total number of pages in report: **49**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

June 17, 2015

Mr. Michael T. Gibson
Eagon & Associates, Inc.
100 West Old Wilson Bridge Road
Suite 115
Worthington, OH 43085

RE: Accutest Jobs # JB93083 - Reissues

Dear Mr. Gibson,

The final report for Accutest job number **JB93083** has been edited to reflect changes to your data package. These edits have been incorporated into the revised report which is attached.

Specifically, the volatile's parameter list has been revised to meet client's requirement. The attached revised report incorporates these revisions.

Our apologies for any inconvenience the above issue may have caused you. Please contact me at 732-355-4550 if I may be of further assistance in this matter, or if you have any further questions regarding this data report.

Sincerely,

Matthew Cordova

Accutest Laboratories

Sections: 1 2 3 4 5 6

Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **6**
Section 3: Summary of Hits **7**
Section 4: Sample Results **10**
4.1: JB93083-1: GW-042015-EA-001 11
4.2: JB93083-2: GW-042015-EA-004 12
4.3: JB93083-3: GW-042015-EA-005 13
4.4: JB93083-4: GW-042115-EA-006 14
4.5: JB93083-5: GW-042115-EA-007 15
4.6: JB93083-6: GW-042115-EA-008 16
4.7: JB93083-7: GW-042115-EA-009 17
4.8: JB93083-8: RB-042115-EA-010 18
4.9: JB93083-9: GW-042115-EA-011 19
4.10: JB93083-10: GW-042115-EA-012 20
4.11: JB93083-11: GW-042115-EA-013 21
4.12: JB93083-12: GW-042115-EA-014 22
4.13: JB93083-13: GW-042115-EA-015 23
4.14: JB93083-14: GW-042115-EA-016 24
4.15: JB93083-15: RB-042115-EA-017 25
4.16: JB93083-16: GW-042115-EA-018 26
4.17: JB93083-17: TRIP BLANK 27
Section 5: Misc. Forms **28**
5.1: Chain of Custody 29
5.2: Sample Tracking Chronicle 32
Section 6: GC/MS Volatiles - QC Data Summaries **35**
6.1: Method Blank Summary 36
6.2: Blank Spike Summary 40
6.3: Matrix Spike/Matrix Spike Duplicate Summary 44
6.4: Surrogate Recovery Summaries 48

Accutest Laboratories

Sample Summary

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Job No: JB93083

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB93083-1	04/20/15	18:00	NK	04/23/15	AQ	Ground Water	GW-042015-EA-001
JB93083-1D	04/20/15	18:00	NK	04/23/15	AQ	Water Dup/MSD	GW-042015-EA-003
JB93083-1S	04/20/15	18:00	NK	04/23/15	AQ	Water Matrix Spike	GW-042015-EA-002
JB93083-2	04/20/15	18:20	NK	04/23/15	AQ	Ground Water	GW-042015-EA-004
JB93083-3	04/20/15	18:20	NK	04/23/15	AQ	Ground Water	GW-042015-EA-005
JB93083-4	04/21/15	07:45	NK	04/23/15	AQ	Ground Water	GW-042115-EA-006
JB93083-5	04/21/15	08:05	NK	04/23/15	AQ	Ground Water	GW-042115-EA-007
JB93083-6	04/21/15	08:20	NK	04/23/15	AQ	Ground Water	GW-042115-EA-008
JB93083-7	04/21/15	08:40	NK	04/23/15	AQ	Ground Water	GW-042115-EA-009
JB93083-8	04/21/15	08:55	NK	04/23/15	AQ	Equipment Blank	RB-042115-EA-010
JB93083-9	04/21/15	10:35	NK	04/23/15	AQ	Ground Water	GW-042115-EA-011
JB93083-10	04/21/15	10:55	NK	04/23/15	AQ	Ground Water	GW-042115-EA-012
JB93083-11	04/21/15	13:40	NK	04/23/15	AQ	Ground Water	GW-042115-EA-013

Accutest Laboratories

Sample Summary
(continued)

Eagon & Associates, Inc.

Job No: JB93083

Summit National Superfund Site, Deerfield OH

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB93083-12	04/21/15	14:05	NK	04/23/15	AQ	Ground Water	GW-042115-EA-014
JB93083-13	04/21/15	16:40	NK	04/23/15	AQ	Ground Water	GW-042115-EA-015
JB93083-14	04/21/15	18:10	NK	04/23/15	AQ	Ground Water	GW-042115-EA-016
JB93083-15	04/21/15	16:55	NK	04/23/15	AQ	Equipment Blank	RB-042115-EA-017
JB93083-16	04/21/15	17:15	NK	04/23/15	AQ	Ground Water	GW-042115-EA-018
JB93083-17	04/21/15	18:10	NK	04/23/15	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Eagon & Associates, Inc.	**Job No**	JB93083
Site:	Summit National Superfund Site, Deerfield OH	**Report Date**	6/17/2015 10:56:14 A

On 04/23/2015, 16 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 5.2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB93083 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V4V694

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93083-1MS, JB93083-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,1,1-Trichloroethane, 1,1-Dichloroethane, Benzene, Chlorobenzene, cis-1,2-Dichloroethene, Ethylbenzene, Toluene, trans-1,2-Dichloroethene, Trichloroethene, Xylene (total) are outside control limits for sample JB93083-1MSD. Outside control limits due to matrix interference.

Matrix: AQ **Batch ID:** V4V695

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93001-1MS, JB93001-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,2-Dichloroethane are outside control limits for sample JB93001-1MSD. Outside control limits due to matrix interference.

Matrix: AQ **Batch ID:** V4V696

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93083-14MS, JB93083-14MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** V4V697

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93351-2MS, JB93351-2MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB93083
Account: Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH
Collected: 04/20/15 thru 04/21/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB93083-1	**GW-042015-EA-001**					
No hits reported in this sample.						
JB93083-2	**GW-042015-EA-004**					
Chloroethane		1.6	1.0	0.34	ug/l	SW846 8260C
1,1-Dichloroethane		34.5	1.0	0.17	ug/l	SW846 8260C
1,2-Dichloroethane		131	1.0	0.18	ug/l	SW846 8260C
cis-1,2-Dichloroethene		7.2	1.0	0.27	ug/l	SW846 8260C
Vinyl chloride		8.4	1.0	0.15	ug/l	SW846 8260C
Xylene (total)		0.20 J	1.0	0.17	ug/l	SW846 8260C
JB93083-3	**GW-042015-EA-005**					
Chloroethane		1.5	1.0	0.34	ug/l	SW846 8260C
1,1-Dichloroethane		34.6	1.0	0.17	ug/l	SW846 8260C
1,2-Dichloroethane		133	1.0	0.18	ug/l	SW846 8260C
cis-1,2-Dichloroethene		7.3	1.0	0.27	ug/l	SW846 8260C
Vinyl chloride		8.9	1.0	0.15	ug/l	SW846 8260C
Xylene (total)		0.19 J	1.0	0.17	ug/l	SW846 8260C
JB93083-4	**GW-042115-EA-006**					
No hits reported in this sample.						
JB93083-5	**GW-042115-EA-007**					
Acetone		5.1	5.0	3.3	ug/l	SW846 8260C
Toluene		0.39 J	1.0	0.16	ug/l	SW846 8260C
JB93083-6	**GW-042115-EA-008**					
No hits reported in this sample.						
JB93083-7	**GW-042115-EA-009**					
No hits reported in this sample.						
JB93083-8	**RB-042115-EA-010**					
No hits reported in this sample.						

Summary of Hits

Job Number: JB93083
Account: Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH
Collected: 04/20/15 thru 04/21/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB93083-9	**GW-042115-EA-011**					
1,1-Dichloroethane		1.1	1.0	0.17	ug/l	SW846 8260C
cis-1,2-Dichloroethene		3.2	1.0	0.27	ug/l	SW846 8260C
JB93083-10	**GW-042115-EA-012**					
No hits reported in this sample.						
JB93083-11	**GW-042115-EA-013**					
Benzene		0.33 J	0.50	0.24	ug/l	SW846 8260C
1,1-Dichloroethane		57.7	1.0	0.17	ug/l	SW846 8260C
1,2-Dichloroethane		1.1	1.0	0.18	ug/l	SW846 8260C
cis-1,2-Dichloroethene		32.1	1.0	0.27	ug/l	SW846 8260C
trans-1,2-Dichloroethene		1.1	1.0	0.65	ug/l	SW846 8260C
1,1,1-Trichloroethane		20.1	1.0	0.25	ug/l	SW846 8260C
Trichloroethene		45.9	1.0	0.22	ug/l	SW846 8260C
Vinyl chloride		3.6	1.0	0.15	ug/l	SW846 8260C
JB93083-12	**GW-042115-EA-014**					
No hits reported in this sample.						
JB93083-13	**GW-042115-EA-015**					
Benzene		103	10	4.7	ug/l	SW846 8260C
Chlorobenzene		62.3	20	3.7	ug/l	SW846 8260C
Chloroethane		20.4	20	6.8	ug/l	SW846 8260C
1,1-Dichloroethane		1550	20	3.4	ug/l	SW846 8260C
1,2-Dichloroethane		77.3	20	3.6	ug/l	SW846 8260C
cis-1,2-Dichloroethene		45.1	20	5.5	ug/l	SW846 8260C
Ethylbenzene		1220	20	5.4	ug/l	SW846 8260C
Toluene		3960	20	3.2	ug/l	SW846 8260C
1,1,1-Trichloroethane		27.0	20	5.0	ug/l	SW846 8260C
Vinyl chloride		55.4	20	2.9	ug/l	SW846 8260C
Xylene (total)		4140	20	3.3	ug/l	SW846 8260C
JB93083-14	**GW-042115-EA-016**					
Benzene		108	10	4.7	ug/l	SW846 8260C
Chlorobenzene		60.3	20	3.7	ug/l	SW846 8260C
Chloroethane		18.1 J	20	6.8	ug/l	SW846 8260C
1,1-Dichloroethane		1560	20	3.4	ug/l	SW846 8260C
1,2-Dichloroethane		81.5	20	3.6	ug/l	SW846 8260C

Summary of Hits

Job Number: JB93083
Account: Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH
Collected: 04/20/15 thru 04/21/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethene		54.8	20	5.5	ug/l	SW846 8260C
Ethylbenzene		1230	20	5.4	ug/l	SW846 8260C
Toluene		3940	20	3.2	ug/l	SW846 8260C
Vinyl chloride		60.1	20	2.9	ug/l	SW846 8260C
Xylene (total)		4200	20	3.3	ug/l	SW846 8260C

JB93083-15 RB-042115-EA-017

No hits reported in this sample.

JB93083-16 GW-042115-EA-018

Benzene	137	0.50	0.24	ug/l	SW846 8260C
Chlorobenzene	0.27 J	1.0	0.19	ug/l	SW846 8260C
1,1-Dichloroethane	359	10	1.7	ug/l	SW846 8260C
1,2-Dichloroethane	70.0	1.0	0.18	ug/l	SW846 8260C
cis-1,2-Dichloroethene	237	10	2.7	ug/l	SW846 8260C
trans-1,2-Dichloroethene	6.5	1.0	0.65	ug/l	SW846 8260C
Ethylbenzene	0.43 J	1.0	0.27	ug/l	SW846 8260C
Toluene	0.95 J	1.0	0.16	ug/l	SW846 8260C
1,1,1-Trichloroethane	4.4	1.0	0.25	ug/l	SW846 8260C
Trichloroethene	32.1	1.0	0.22	ug/l	SW846 8260C
Vinyl chloride	114	1.0	0.15	ug/l	SW846 8260C
Xylene (total)	0.36 J	1.0	0.17	ug/l	SW846 8260C

JB93083-17 TRIP BLANK

No hits reported in this sample.

New Jersey
ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GW-042015-EA-001		
Lab Sample ID:	JB93083-1	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17015.D	1	04/25/15	JM	n/a	n/a	V4V694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	111%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042015-EA-004		
Lab Sample ID:	JB93083-2	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17030.D	1	04/25/15	JM	n/a	n/a	V4V694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	1.6	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	34.5	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	131	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	7.2	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	8.4	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	0.20	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	112%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042015-EA-005		
Lab Sample ID:	JB93083-3	**Date Sampled:**	04/20/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17031.D	1	04/25/15	JM	n/a	n/a	V4V694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	1.5	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	34.6	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	133	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	7.3	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	8.9	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	0.19	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	111%		84-119%
460-00-4	4-Bromofluorobenzene	103%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-006		
Lab Sample ID:	JB93083-4	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17029.D	1	04/25/15	JM	n/a	n/a	V4V694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%
17060-07-0	1,2-Dichloroethane-D4	100%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-007		
Lab Sample ID:	JB93083-5	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17016.D	1	04/25/15	JM	n/a	n/a	V4V694
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.1	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	0.39	1.0	0.16	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-008		
Lab Sample ID:	JB93083-6	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17044.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	97%		73-122%
2037-26-5	Toluene-D8	107%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-009		
Lab Sample ID:	JB93083-7	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17045.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	99%		73-122%
2037-26-5	Toluene-D8	111%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-042115-EA-010		
Lab Sample ID:	JB93083-8	**Date Sampled:**	04/21/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17046.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		73-122%
2037-26-5	Toluene-D8	115%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-011		
Lab Sample ID:	JB93083-9	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17047.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	1.1	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.2	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	110%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-012		
Lab Sample ID:	JB93083-10	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17048.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	112%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-013		
Lab Sample ID:	JB93083-11	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17049.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	0.33	0.50	0.24	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	57.7	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	1.1	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	32.1	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.1	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	20.1	1.0	0.25	ug/l	
79-01-6	Trichloroethene	45.9	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	3.6	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-014		
Lab Sample ID:	JB93083-12	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17050.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	116%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-015		
Lab Sample ID:	JB93083-13	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17065.D	20	04/27/15	JM	n/a	n/a	V4V696
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	66	ug/l	
71-43-2	Benzene	103	10	4.7	ug/l	
108-90-7	Chlorobenzene	62.3	20	3.7	ug/l	
75-00-3	Chloroethane	20.4	20	6.8	ug/l	
75-34-3	1,1-Dichloroethane	1550	20	3.4	ug/l	
107-06-2	1,2-Dichloroethane	77.3	20	3.6	ug/l	
156-59-2	cis-1,2-Dichloroethene	45.1	20	5.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	13	ug/l	
100-41-4	Ethylbenzene	1220	20	5.4	ug/l	
108-88-3	Toluene	3960	20	3.2	ug/l	
71-55-6	1,1,1-Trichloroethane	27.0	20	5.0	ug/l	
79-01-6	Trichloroethene	ND	20	4.5	ug/l	
75-01-4	Vinyl chloride	55.4	20	2.9	ug/l	
1330-20-7	Xylene (total)	4140	20	3.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-016		
Lab Sample ID:	JB93083-14	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17064.D	20	04/27/15	JM	n/a	n/a	V4V696
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	66	ug/l	
71-43-2	Benzene	108	10	4.7	ug/l	
108-90-7	Chlorobenzene	60.3	20	3.7	ug/l	
75-00-3	Chloroethane	18.1	20	6.8	ug/l	J
75-34-3	1,1-Dichloroethane	1560	20	3.4	ug/l	
107-06-2	1,2-Dichloroethane	81.5	20	3.6	ug/l	
156-59-2	cis-1,2-Dichloroethene	54.8	20	5.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	13	ug/l	
100-41-4	Ethylbenzene	1230	20	5.4	ug/l	
108-88-3	Toluene	3940	20	3.2	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	5.0	ug/l	
79-01-6	Trichloroethene	ND	20	4.5	ug/l	
75-01-4	Vinyl chloride	60.1	20	2.9	ug/l	
1330-20-7	Xylene (total)	4200	20	3.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		73-122%
2037-26-5	Toluene-D8	110%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-042115-EA-017		
Lab Sample ID:	JB93083-15	**Date Sampled:**	04/21/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17051.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	114%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GW-042115-EA-018		
Lab Sample ID:	JB93083-16	**Date Sampled:**	04/21/15
Matrix:	AQ - Ground Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17063.D	1	04/27/15	JM	n/a	n/a	V4V696
Run #2	4V17105.D	10	04/28/15	JM	n/a	n/a	V4V697

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	137	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	0.27	1.0	0.19	ug/l	J
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	359 [a]	10	1.7	ug/l	
107-06-2	1,2-Dichloroethane	70.0	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	237 [a]	10	2.7	ug/l	
156-60-5	trans-1,2-Dichloroethene	6.5	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	0.43	1.0	0.27	ug/l	J
108-88-3	Toluene	0.95	1.0	0.16	ug/l	J
71-55-6	1,1,1-Trichloroethane	4.4	1.0	0.25	ug/l	
79-01-6	Trichloroethene	32.1	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	114	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	0.36	1.0	0.17	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	106%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	73-122%
2037-26-5	Toluene-D8	110%	115%	84-119%
460-00-4	4-Bromofluorobenzene	99%	102%	78-117%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB93083-17	**Date Sampled:**	04/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17052.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

ACCUTEST LABORATORIES

GW WTB

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 2

FED-EX Tracking # 6250 6352 8700
Bottle Order Control #
Accutest Quote #
Accutest Job # JB93083

Client / Reporting Information

Company Name: Eagon & Associates, Inc.
Street Address: 100 Old Wilson Bridge Rd Ste 115
City State Zip: Worthington, Ohio 43085
Project Contact E-mail: Mike Gibson (mgibson@eagon.cc)
Phone # Fax #: (614) 888-5760 (614) 888-5763
Sampler(s) Name(s) Phone #: Andy Graham (614) 271-4582

Project Information

Project Name: Summit National Superfund Site - 2015 Annual Monitoring Event
Street: 8174 Waterloo Road (SR 224)
City State: Deerfield, Ohio 44111
Project #: --
Client Purchase Order #: --
Project Manager: Matt Cordova

Billing Information (if different from Report to)

Company Name: Summit National Facility Trust (SNFT)
Street Address: See File
City State Zip: See File
Attention: SNFT

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260TCL	LAB USE ONLY
1	GW-042015-EA-001		4/20/15	1800	NK	GW	3	X								X	
1	GW-042015-EA-002				NK	GW	3	X								X	V840
	GW-042015-EA-003				NK	GW	3	X								X	
2	GW-042015-EA-004		4/20/15	1820	NK	GW	3	X								X	
3	GW-042015-EA-005		4/20/15	1820	NK	GW	3	X								X	
4	GW-042115-EA-006		4/21/15	0745	NK	GW	3	X								X	
5	GW-042115-EA-007			0805	NK	GW	3	X								X	
6	GW-042115-EA-008			0820	NK	GW	3	X								X	
7	GW-042115-EA-009			0840	NK	GW	3	X								X	
8	RB-042115-EA-010			0855	NK	GW	3	X								X	
9	GW-042115-EA-011			1035	NK	GW	3	X								X	
10	GW-042115-EA-012			1055	NK	GW	3	X								X	

Turnaround Time (Business days)

- Approved By (Accutest PM): / Date:
- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ other
- Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other
- Commercial "A" = Results Only
- Commercial "B" = Results + QC Summary
- NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

SAMPLES "002" & "003" ARE MS/MSD RESPECTIVELY FOR SAMPLE "001"

INITIAL ASESSMENT

LABEL VERIFICATION

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Andrew D. Graham	4/22/15 @ 0815	1	2	4-23-15 1000	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 732 ☒ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 5.2°C

5.1 5

JB93083: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # 6250 6352 8700
Bottle Order Control #
Accutest Quote #
Accutest Job # JB93083

Client / Reporting Information

Company Name: Eagon & Associates, Inc.
Street Address: 100 Old Wilson Bridge Rd Ste 115
City State Zip: Worthington, Ohio 43085
Project Contact E-mail: Mike Gibson (mgibson@eagon.cc)
Phone # Fax #: (614) 888-5760 (614) 888-5763
Sampler(s) Name(s) Phone #: Andy Graham (614) 271-4582

Project Information

Project Name: Summit National Superfund Site - 2015 Annual Monitoring Event
Street: 8174 Waterloo Road (SR 224)
City State: Deerfield, Ohio 44111
Project #: --
Client Purchase Order #: --
Project Manager: Matt Cordova

Billing Information (if different from Report to)

Company Name: Summit National Facility Trust (SNFT)
Street Address: See File
City State Zip: See File
Attention: SNFT

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260TCL	LAB USE ONLY
11	GW-042115-EA-013		4/21/15	1340	NK	GW	3	X								X	
12	GW-042115-EA-014		↓	1405	NK	GW	3	X								X	
13	GW-042115-EA-015			1640	NK	GW	3	X								X	
14	GW-042115-EA-016			1810	NK	GW	3	X								X	
15	RB-042115-EA-017			1655	NK	GW	3	X								X	
16	GW-042115-EA-018		↓	1715	NK	GW	3	X								X	
17	TRIP BLANK		—	—	—	O	4	X								X	

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Andrew D. Graham	4/22/15 @ 0815	1 FX	2 FX	4-23-15 1000	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] On Ice [ ] Cooler Temp.

5.1 5

JB93083: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB93083 **Client:** _____ **Project:** _____

Date / Time Received: 4/23/2015 10:00:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (5.2/3.4); 0

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB93083: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Job No: JB93083

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93083-1	Collected: 20-APR-15 18:00 By: NK		Received: 23-APR-15 By: AM			
GW-042015-EA-001						
JB93083-1	SW846 8260C	25-APR-15 13:35	JM			V8260SL4
JB93083-2	Collected: 20-APR-15 18:20 By: NK		Received: 23-APR-15 By: AM			
GW-042015-EA-004						
JB93083-2	SW846 8260C	25-APR-15 20:47	JM			V8260SL4
JB93083-3	Collected: 20-APR-15 18:20 By: NK		Received: 23-APR-15 By: AM			
GW-042015-EA-005						
JB93083-3	SW846 8260C	25-APR-15 21:14	JM			V8260TCL
JB93083-4	Collected: 21-APR-15 07:45 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-006						
JB93083-4	SW846 8260C	25-APR-15 20:20	JM			V8260TCL
JB93083-5	Collected: 21-APR-15 08:05 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-007						
JB93083-5	SW846 8260C	25-APR-15 14:02	JM			V8260TCL
JB93083-6	Collected: 21-APR-15 08:20 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-008						
JB93083-6	SW846 8260C	26-APR-15 03:06	JM			V8260SL4
JB93083-7	Collected: 21-APR-15 08:40 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-009						
JB93083-7	SW846 8260C	26-APR-15 03:33	JM			V8260SL4
JB93083-8	Collected: 21-APR-15 08:55 By: NK		Received: 23-APR-15 By: AM			
RB-042115-EA-010						
JB93083-8	SW846 8260C	26-APR-15 04:00	JM			V8260SL4

Internal Sample Tracking Chronicle

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Job No: JB93083

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93083-9	Collected: 21-APR-15 10:35 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-011						
JB93083-9	SW846 8260C	26-APR-15 04:26	JM			V8260SL4
JB93083-10	Collected: 21-APR-15 10:55 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-012						
JB93083-10	SW846 8260C	26-APR-15 04:53	JM			V8260SL4
JB93083-11	Collected: 21-APR-15 13:40 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-013						
JB93083-11	SW846 8260C	26-APR-15 05:20	JM			V8260SL4
JB93083-12	Collected: 21-APR-15 14:05 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-014						
JB93083-12	SW846 8260C	26-APR-15 05:47	JM			V8260SL4
JB93083-13	Collected: 21-APR-15 16:40 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-015						
JB93083-13	SW846 8260C	27-APR-15 14:59	JM			V8260SL4
JB93083-14	Collected: 21-APR-15 18:10 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-016						
JB93083-14	SW846 8260C	27-APR-15 14:25	JM			V8260SL4
JB93083-15	Collected: 21-APR-15 16:55 By: NK		Received: 23-APR-15 By: AM			
RB-042115-EA-017						
JB93083-15	SW846 8260C	26-APR-15 06:14	JM			V8260SL4
JB93083-16	Collected: 21-APR-15 17:15 By: NK		Received: 23-APR-15 By: AM			
GW-042115-EA-018						
JB93083-16	SW846 8260C	27-APR-15 13:58	JM			V8260SL4

Internal Sample Tracking Chronicle

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Job No: JB93083

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93083-16	SW846 8260C	28-APR-15 18:23	JM			V8260SL4
JB93083-17	Collected: 21-APR-15 18:10 By: NK		Received: 23-APR-15 By: AM			
TRIP BLANK						
JB93083-17	SW846 8260C	26-APR-15 06:41	JM			V8260SL4

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V694-MB1	4V17012.D	1	04/25/15	JM	n/a	n/a	V4V694

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-1, JB93083-2, JB93083-3, JB93083-4, JB93083-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	73-122%
2037-26-5	Toluene-D8	113%	84-119%
460-00-4	4-Bromofluorobenzene	99%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V695-MB1	4V17035.D	1	04/25/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-6, JB93083-7, JB93083-8, JB93083-9, JB93083-10, JB93083-11, JB93083-12, JB93083-15, JB93083-17

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	73-122%
2037-26-5	Toluene-D8	113%	84-119%
460-00-4	4-Bromofluorobenzene	100%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	6.86	17	ug/l	J
	Total TIC, Volatile		17	ug/l	J

Method Blank Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V696-MB1	4V17057.D	1	04/27/15	JM	n/a	n/a	V4V696

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-13, JB93083-14, JB93083-16

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	73-122%
2037-26-5	Toluene-D8	113%	84-119%
460-00-4	4-Bromofluorobenzene	102%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V697-MB	4V17093.D	1	04/28/15	JM	n/a	n/a	V4V697

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-16

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	76-120%
17060-07-0	1,2-Dichloroethane-D4	106%	73-122%
2037-26-5	Toluene-D8	115%	84-119%
460-00-4	4-Bromofluorobenzene	100%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V694-BS	4V17013.D	1	04/25/15	JM	n/a	n/a	V4V694

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-1, JB93083-2, JB93083-3, JB93083-4, JB93083-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	50.6	101	47-144
71-43-2	Benzene	50	51.3	103	81-119
108-90-7	Chlorobenzene	50	52.7	105	84-116
75-00-3	Chloroethane	50	46.7	93	70-148
75-34-3	1,1-Dichloroethane	50	55.0	110	80-125
107-06-2	1,2-Dichloroethane	50	56.0	112	78-131
156-59-2	cis-1,2-Dichloroethene	50	47.9	96	77-118
156-60-5	trans-1,2-Dichloroethene	50	53.8	108	75-118
100-41-4	Ethylbenzene	50	51.5	103	80-118
108-88-3	Toluene	50	53.7	107	80-122
71-55-6	1,1,1-Trichloroethane	50	60.6	121	80-131
79-01-6	Trichloroethene	50	57.9	116	83-122
75-01-4	Vinyl chloride	50	37.1	74	57-138
1330-20-7	Xylene (total)	150	162	108	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	104%	73-122%
2037-26-5	Toluene-D8	112%	84-119%
460-00-4	4-Bromofluorobenzene	98%	78-117%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V695-BS	4V17036.D	1	04/25/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-6, JB93083-7, JB93083-8, JB93083-9, JB93083-10, JB93083-11, JB93083-12, JB93083-15, JB93083-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	51.0	102	47-144
71-43-2	Benzene	50	48.8	98	81-119
108-90-7	Chlorobenzene	50	51.1	102	84-116
75-00-3	Chloroethane	50	55.1	110	70-148
75-34-3	1,1-Dichloroethane	50	53.1	106	80-125
107-06-2	1,2-Dichloroethane	50	53.4	107	78-131
156-59-2	cis-1,2-Dichloroethene	50	46.3	93	77-118
156-60-5	trans-1,2-Dichloroethene	50	51.0	102	75-118
100-41-4	Ethylbenzene	50	49.4	99	80-118
108-88-3	Toluene	50	49.5	99	80-122
71-55-6	1,1,1-Trichloroethane	50	56.2	112	80-131
79-01-6	Trichloroethene	50	54.5	109	83-122
75-01-4	Vinyl chloride	50	47.7	95	57-138
1330-20-7	Xylene (total)	150	155	103	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	73-122%
2037-26-5	Toluene-D8	110%	84-119%
460-00-4	4-Bromofluorobenzene	98%	78-117%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V696-BS	4V17058.D	1	04/27/15	JM	n/a	n/a	V4V696

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-13, JB93083-14, JB93083-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	50.2	100	47-144
71-43-2	Benzene	50	50.5	101	81-119
108-90-7	Chlorobenzene	50	51.5	103	84-116
75-00-3	Chloroethane	50	56.8	114	70-148
75-34-3	1,1-Dichloroethane	50	55.1	110	80-125
107-06-2	1,2-Dichloroethane	50	54.3	109	78-131
156-59-2	cis-1,2-Dichloroethene	50	48.7	97	77-118
156-60-5	trans-1,2-Dichloroethene	50	54.5	109	75-118
100-41-4	Ethylbenzene	50	50.8	102	80-118
108-88-3	Toluene	50	53.2	106	80-122
71-55-6	1,1,1-Trichloroethane	50	58.6	117	80-131
79-01-6	Trichloroethene	50	56.1	112	83-122
75-01-4	Vinyl chloride	50	46.4	93	57-138
1330-20-7	Xylene (total)	150	160	107	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	76-120%
17060-07-0	1,2-Dichloroethane-D4	104%	73-122%
2037-26-5	Toluene-D8	112%	84-119%
460-00-4	4-Bromofluorobenzene	99%	78-117%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V697-BS	4V17094.D	1	04/28/15	JM	n/a	n/a	V4V697

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-34-3	1,1-Dichloroethane	50	54.5	109	80-125
156-59-2	cis-1,2-Dichloroethene	50	47.3	95	77-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	76-120%
17060-07-0	1,2-Dichloroethane-D4	104%	73-122%
2037-26-5	Toluene-D8	113%	84-119%
460-00-4	4-Bromofluorobenzene	100%	78-117%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93083-1MS	4V17020.D	1	04/25/15	JM	n/a	n/a	V4V694
JB93083-1MSD	4V17021.D	1	04/25/15	JM	n/a	n/a	V4V694
JB93083-1	4V17015.D	1	04/25/15	JM	n/a	n/a	V4V694

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-1, JB93083-2, JB93083-3, JB93083-4, JB93083-5

CAS No.	Compound	JB93083-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	52.5	105	50	61.5	123	16	33-158/19
71-43-2	Benzene	ND		50	47.1	94	50	57.7	115	20* [a]	43-138/12
108-90-7	Chlorobenzene	ND		50	48.3	97	50	57.6	115	18* [a]	70-124/12
75-00-3	Chloroethane	ND		50	56.2	112	50	57.9	116	3	47-139/15
75-34-3	1,1-Dichloroethane	ND		50	50.8	102	50	62.0	124	20* [a]	60-129/13
107-06-2	1,2-Dichloroethane	ND		50	51.7	103	50	58.5	117	12	72-133/12
156-59-2	cis-1,2-Dichloroethene	ND		50	45.7	91	50	55.4	111	19* [a]	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		50	51.8	104	50	63.1	126	20* [a]	53-128/15
100-41-4	Ethylbenzene	ND		50	47.1	94	50	57.4	115	20* [a]	38-139/12
108-88-3	Toluene	ND		50	47.8	96	50	60.5	121	23* [a]	51-136/13
71-55-6	1,1,1-Trichloroethane	ND		50	53.9	108	50	66.8	134	21* [a]	51-141/16
79-01-6	Trichloroethene	ND		50	52.4	105	50	63.9	128	20* [a]	55-136/14
75-01-4	Vinyl chloride	ND		50	55.0	110	50	59.8	120	8	34-147/17
1330-20-7	Xylene (total)	ND		150	149	99	150	180	120	19* [a]	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JB93083-1	Limits
1868-53-7	Dibromofluoromethane	107%	105%	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	103%	73-122%
2037-26-5	Toluene-D8	109%	112%	111%	84-119%
460-00-4	4-Bromofluorobenzene	95%	98%	99%	78-117%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93001-1MS	4V17041.D	10	04/26/15	JM	n/a	n/a	V4V695
JB93001-1MSD	4V17042.D	10	04/26/15	JM	n/a	n/a	V4V695
JB93001-1	4V17040.D	10	04/26/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-6, JB93083-7, JB93083-8, JB93083-9, JB93083-10, JB93083-11, JB93083-12, JB93083-15, JB93083-17

CAS No.	Compound	JB93001-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		500	531	106	500	590	118	11	33-158/19
71-43-2	Benzene	2310	E	500	2530	44	500	2550	48	1	43-138/12
108-90-7	Chlorobenzene	4.8	J	500	526	104	500	527	104	0	70-124/12
75-00-3	Chloroethane	ND		500	497	99	500	517	103	4	47-139/15
75-34-3	1,1-Dichloroethane	ND		500	538	108	500	558	112	4	60-129/13
107-06-2	1,2-Dichloroethane	ND		500	582	116	500	510	102	13* [a]	72-133/12
156-59-2	cis-1,2-Dichloroethene	ND		500	485	97	500	499	100	3	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		500	546	109	500	564	113	3	53-128/15
100-41-4	Ethylbenzene	330		500	801	94	500	793	93	1	38-139/12
108-88-3	Toluene	20.8		500	547	105	500	561	108	3	51-136/13
71-55-6	1,1,1-Trichloroethane	ND		500	601	120	500	596	119	1	51-141/16
79-01-6	Trichloroethene	17.2		500	582	113	500	582	113	0	55-136/14
75-01-4	Vinyl chloride	ND		500	494	99	500	525	105	6	34-147/17
1330-20-7	Xylene (total)	634		1500	2170	102	1500	2160	102	0	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JB93001-1	Limits
1868-53-7	Dibromofluoromethane	104%	105%	107%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	98%	104%	73-122%
2037-26-5	Toluene-D8	112%	113%	112%	84-119%
460-00-4	4-Bromofluorobenzene	98%	99%	100%	78-117%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93083-14MS	4V17066.D	20	04/27/15	JM	n/a	n/a	V4V696
JB93083-14MSD	4V17067.D	20	04/27/15	JM	n/a	n/a	V4V696
JB93083-14	4V17064.D	20	04/27/15	JM	n/a	n/a	V4V696

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-13, JB93083-14, JB93083-16

CAS No.	Compound	JB93083-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1000	1050	105	1000	1120	112	6	33-158/19
71-43-2	Benzene	108		1000	1090	98	1000	1090	98	0	43-138/12
108-90-7	Chlorobenzene	60.3		1000	1080	102	1000	1070	101	1	70-124/12
75-00-3	Chloroethane	18.1	J	1000	968	95	1000	954	94	1	47-139/15
75-34-3	1,1-Dichloroethane	1560		1000	2430	87	1000	2430	87	0	60-129/13
107-06-2	1,2-Dichloroethane	81.5		1000	1150	107	1000	1140	106	1	72-133/12
156-59-2	cis-1,2-Dichloroethene	54.8		1000	1000	95	1000	990	94	1	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		1000	1080	108	1000	1080	108	0	53-128/15
100-41-4	Ethylbenzene	1230		1000	2060	83	1000	2040	81	1	38-139/12
108-88-3	Toluene	3940		1000	4540	60	1000	4520	58	0	51-136/13
71-55-6	1,1,1-Trichloroethane	ND		1000	1180	118	1000	1150	115	3	51-141/16
79-01-6	Trichloroethene	ND		1000	1130	113	1000	1110	111	2	55-136/14
75-01-4	Vinyl chloride	60.1		1000	999	94	1000	947	89	5	34-147/17
1330-20-7	Xylene (total)	4200		3000	6920	91	3000	6770	86	2	46-137/12

CAS No.	Surrogate Recoveries	MS	MSD	JB93083-14	Limits
1868-53-7	Dibromofluoromethane	107%	108%	106%	76-120%
17060-07-0	1,2-Dichloroethane-D4	104%	103%	101%	73-122%
2037-26-5	Toluene-D8	113%	114%	110%	84-119%
460-00-4	4-Bromofluorobenzene	99%	99%	101%	78-117%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93351-2MS	4V17102.D	1	04/28/15	JM	n/a	n/a	V4V697
JB93351-2MSD	4V17103.D	1	04/28/15	JM	n/a	n/a	V4V697
JB93351-2	4V17098.D	1	04/28/15	JM	n/a	n/a	V4V697

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93083-16

CAS No.	Compound	JB93351-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-34-3	1,1-Dichloroethane	ND		50	47.6	95	50	45.9	92	4	60-129/13
156-59-2	cis-1,2-Dichloroethene	ND		50	43.8	88	50	42.7	85	3	57-128/13

CAS No.	Surrogate Recoveries	MS	MSD	JB93351-2	Limits
1868-53-7	Dibromofluoromethane	108%	108%	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	106%	73-122%
2037-26-5	Toluene-D8	114%	115%	115%	84-119%
460-00-4	4-Bromofluorobenzene	101%	100%	100%	78-117%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB93083-1	4V17015.D	105	103	111	99
JB93083-2	4V17030.D	106	102	112	102
JB93083-3	4V17031.D	106	102	111	103
JB93083-4	4V17029.D	103	100	113	101
JB93083-5	4V17016.D	102	103	113	100
JB93083-6	4V17044.D	99	97	107	98
JB93083-7	4V17045.D	100	99	111	101
JB93083-8	4V17046.D	103	101	115	99
JB93083-9	4V17047.D	103	102	110	100
JB93083-10	4V17048.D	102	102	112	99
JB93083-11	4V17049.D	103	103	113	98
JB93083-12	4V17050.D	102	103	116	101
JB93083-13	4V17065.D	105	102	113	102
JB93083-14	4V17064.D	106	101	110	101
JB93083-15	4V17051.D	104	102	114	102
JB93083-16	4V17105.D	106	103	115	102
JB93083-16	4V17063.D	107	102	110	99
JB93083-17	4V17052.D	103	101	113	99
JB93001-1MS	4V17041.D	104	101	112	98
JB93001-1MSD	4V17042.D	105	98	113	99
JB93083-14MS	4V17066.D	107	104	113	99
JB93083-14MSD	4V17067.D	108	103	114	99
JB93083-1MS	4V17020.D	107	103	109	95
JB93083-1MSD	4V17021.D	105	100	112	98
JB93351-2MS	4V17102.D	108	104	114	101
JB93351-2MSD	4V17103.D	108	102	115	100
V4V694-BS	4V17013.D	105	104	112	98
V4V694-MB1	4V17012.D	104	103	113	99
V4V695-BS	4V17036.D	104	102	110	98
V4V695-MB1	4V17035.D	105	103	113	100
V4V696-BS	4V17058.D	107	104	112	99
V4V696-MB1	4V17057.D	105	101	113	102
V4V697-BS	4V17094.D	106	104	113	100
V4V697-MB	4V17093.D	107	106	115	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%

Volatile Surrogate Recovery Summary

Job Number: JB93083
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-4

WELL DATA

Water-Level Date 04/20/15 (MM DD YY)

Water-Level Time 11:05 (2400 Hr. Clock)

Purge/Sample Method: DRY — X = Other; LF = Low Flow; P = Passive; Dry = Dry; 3-5 = 3-5 well vols.

Well Elevation (at TOC) 109109 (ft/msl)

Depth to Water (DTW) (from TOC) 5.63 (ft)

Groundwater Elevation (site datum, from TOC) 108546 (ft/msl)

Total Well Depth (from TOC) 24.59 (ft)

Water Column Height (well depth - DTW) 18.96 (ft)

Casing ID 04 (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or (N)

Filter Device ~~Y~~ or (N) ~~0.45µ~~ or — µ (circle or fill in)

Purging Device A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device D

Pump Type (Vol) X — A-P1200M (495 ml), B-P1101M (395 ml), C-P1150 (130 ml), X-Other

Tubing ID (Vol/Ft) X — A-3/8 inch (22 ml/ft), B-1/4 inch (10 ml/ft), C-0.17 inch (4.5 ml/ft), X -Other

X-Other: Grundfos on 1/2" TUBING

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~ Gal) IN (PUMP/TUBING:WELL CASING) circle one of each	ACTUAL VOL PURGED (~~Liters~~ Gallons) circle one	(~~PUMP/TUBING~~ WELL) VOLS PURGED (optional)
04/20/15	15:34	0:14	12.5	14.0	1.1

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~ Gals) circle one	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
15:25	5.60						
15:34	START	0.0					
15:43	—	12.5	6.78	1958	9.5	—	—
15:48	DRY	14.0	—	—	—	—	—
	SAMPLE						
08:20	5.72	14.0	6.76	2940	7.2	7.24	—

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~ Gals) circle one	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	08:20	14.0	6.76	2940	7.2	7.24	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: Clear Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-15mph/SW Air Temp: ~45°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

Well vol. = 24.59 - 5.60 = 18.99 x 0.656 = 12.5 gallons.

Sample I.D. #: GW-042115-EA-008

Samples Collected: SSIPL VOCs (3-40ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-11

WELL DATA

Water-Level Date (MM DD YY)	042015	Water-Level Time (2400 Hr. Clock)	1138	Purge/Sample Method:	3-5 X = Other LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.
Well Elevation (at TOC)	109593 (ft/msl)	Depth to Water (DTW) (from TOC)	882 (ft)	Groundwater Elevation (site datum, from TOC)	108711 (ft/msl)
Total Well Depth (from TOC)	2643 (ft)	Water Column Height (well depth - DTW)	1761 (ft)	Casing ID	02 PVC (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated: Y or N

Filter Device: Y or N ~~0.45~~µ or — µ *(circle or fill in)*

Purging Device: X

Sampling Device: D

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Pump Type (Vol): — A-P1200M (495 ml) B-P1101M (395 ml) C-P1150 (130 ml) X-Other

Tubing ID (Vol/Ft): A A-3/8 inch (22 ml/ft) B-1/4 inch (10 ml/ft) C-0.17 inch (4.5 ml/ft) X -Other

X-Other: foot valve

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL ~~(L:~~ Gal) IN ~~(PUMP/TUBING:~~ WELL CASING) *circle one of each*	ACTUAL VOL PURGED ~~(Liters:~~ Gallons) *circle one*	~~(PUMP/TUBING:~~ WELL) VOLS PURGED *(optional)*
042115	1131	016	29	120	4.1

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged ~~(L:~~ Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
1125	888						
1131	START	00					
1136	—	30	659	1484	93	—	—
1140	—	60	661	1394	89	—	—
1144	—	90	660	1352	89	—	—
1147	—	120	662	1353	88	850	—
	SAMPLE						
1340	889	120	671	1691	81	492	—

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED ~~(L:~~ Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
042115	1340	120	671	1691	81	492	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: slightly cloudy Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~15-30 mph / W Air Temp: ~55°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): Early purge dark gray; cleared during purging

Well vol. = 26.43 − 8.88 = 17.55 × 0.164 = 2.9 gallons

Sample I.D. #: GW-042115-EA-013

Samples Collected: SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL **Sample Point:** MW-107

WELL DATA

Water-Level Date 04/20/15 (MM DD YY) **Water-Level Time** 11:46 (2400 Hr. Clock) **Purge/Sample Method:** 3-5 X = Other LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) 1098.27 (ft/msl) **Depth to Water (DTW) (from TOC)** 8.94 (ft) **Groundwater Elevation (site datum, from TOC)** 1089.33 (ft/msl)

Total Well Depth (from TOC) 30.97 (ft) Water Column Height (well depth - DTW) 22.03 (ft) Casing ID 02 (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or (N) Filter Device Y or (N) 0.45µ or — µ *(circle or fill in)*

Purging Device X A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device D

Pump Type (Vol) — A-P1200M (495 ml) B-P1101M (395 ml) C-P1150 (130 ml) X-Other

Tubing ID (Vol/Ft) A A-3/8 inch (22 ml/ft) B-1/4 inch (10 ml/ft) C-0.17 inch (4.5 ml/ft) X -Other

X-Other foot valve

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~ Gal) IN (~~PUMP/TUBING~~ WELL CASING) *circle one of each*	ACTUAL VOL PURGED (~~Liters~~ Gallons) *circle one*	(~~PUMP/TUBING~~ WELL) VOLS PURGED *(optional)*
04/21/15	14:35	0:27	3.6	20.0	5.6

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~ Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
14:23	19.08						
14:35	START	0.0					
14:41		4.0	6.73	18812	9.4		
14:45		8.0	6.91	19312	9.5		
14:51		12.0	6.93	19715	9.5		
14:56		16.0	6.92	*27120	9.7		
15:02		20.0	6.91	*28110	9.9	3.43	
	SAMPLE						
16:40	19.04	20.0	6.84	27000	8.9	8.87	

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~ Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	16:40	20.0	6.84	27000	8.9	8.87	

FIELD COMMENTS

Sample Appearance: — Odor: strong / stale Color: slight cloudy gray Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~20-40 mph / W Air Temp: ~55°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

Well vol. = 30.97 - 9.08 = 21.89 x 0.164 = 3.6 gallons

* - possible / apparent fouling of probe / ~~turn~~ AOG probe turns black when submerged in sample

Sample I.D. #: GW-042115-EA-015

Samples Collected: SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

EA-100 R: 4/10

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-108

WELL DATA

Water-Level Date 04/21/15 (MM DD YY)

Water-Level Time 1251 (2400 Hr. Clock)

Purge/Sample Method: 3-5 X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) 1091.96 (ft/msl)

Depth to Water (DTW) (from TOC) 5.02 (ft)

Groundwater Elevation (site datum, from TOC) 1086.94 (ft/msl)

Total Well Depth (from TOC) 18.42 (ft)

Water Column Height (well depth - DTW) 13.4 (ft)

Casing ID 02 (in) PVC

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or (N)

Filter Device Y or (N) 0.45µ or — µ *(circle or fill in)*

Purging Device X

Sampling Device D

A-Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Pump Type (Vol) —

A-P1200M (495 ml)
B-P1101M (395 ml)
C-P1150 (130 ml)
X-Other

Tubing ID (Vol/Ft) A

A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-0.17 inch (4.5 ml/ft)
X -Other

X-Other foot valve

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~: Gal) IN (~~PUMP/TUBING~~, WELL CASING) *circle one of each*	ACTUAL VOL PURGED (~~Liters~~: Gallons) *circle one*	(~~PUMP/TUBING~~, WELL) VOLS PURGED *(optional)*
04/21/15	1523	0:25	22	125	5.7

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~: Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
1520	513						
1523	START	100					
1528		125	6.82	1443	17.8		
1533		150	6.83	1510	17.7		
1538		175	6.82	1604	18.0		
1543		1100	6.84	1643	18.2		
1548		1125	6.85	1663	18.2	169	
	SAMPLE						
1715	521	125	6.68	1457	18.6	222	

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~: Gals) *circle one*	pH (std)	CONDUCTANCE (µmhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	1715	125				222	

FIELD COMMENTS

Sample Appearance: — Odor: slt. stale Color: Cloudy orange Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~20-30mph/W Air Temp: ~55°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Early purge dark orange

Well vol. = 18.42 - 5.13 = 13.29 x 0.164 = 2.2 gallons

Sample I.D. #: GW-042115-EA-018

Samples Collected: SSIPL VOCs (3-40ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

EA-100 R: 4/10

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-111

WELL DATA

Water-Level Date: 04/20/15 (MM DD YY)

Water-Level Time: 12:14 (2400 Hr. Clock)

Purge/Sample Method: 3-5 (X = Other; LF = Low Flow, P = Passive, Dry = Dry, 3-5 = 3-5 well vols.)

Well Elevation (at TOC): 1099.67 (ft/msl)

Depth to Water (DTW) (from TOC): 12.34 (ft)

Groundwater Elevation (site datum, from TOC): 1087.33 (ft/msl)

Total Well Depth (from TOC): 29.33 (ft)

Water Column Height (well depth - DTW): 16.99 (ft)

Casing ID: 02 SS (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated: Y or (N)

Filter Device: ~~Y~~ or (N) ~~0.45µ~~ or — µ (circle or fill in)

Purging Device: X

Sampling Device: D

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other: foot valve

Pump Type (Vol): — A-P1200M (495 ml); B-P1101M (395 ml); C-P1150 (130 ml); X-Other

Tubing ID (Vol/Ft): A A-3/8 inch (22 ml/ft); B-1/4 inch (10 ml/ft); C-0.17 inch (4.5 ml/ft); X-Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~ Gal) IN (~~PUMP/TUBING~~ WELL CASING) circle one of each	ACTUAL VOL PURGED (~~Liters~~ Gallons) circle one	(~~PUMP/TUBING~~ WELL) VOLS PURGED (optional)
04/20/15	17:13	0:14	2.8	9.0	3.2

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~ Gals) circle one	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
17:08	12.34						
17:13	START	1.0					
17:18		3.0	5.90	3580	10.4		
17:22		6.0	5.92	3620	10.4		
17:27		9.0	5.93	3610	10.3	24.1	
4/20/15	SAMPLE						
18:20	12.35	9.0	6.03	3610	10.2	70.7	

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~ Gals) circle one	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/20/15	18:20	9.0	6.03	3610	10.2	70.7	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: ORANGE Other: —

Weather Conditions (at sample time): Wind Speed/Direction: 5-10 MPH from SW Air Temp: ~55°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

Well vol. = 29.33 − 12.34 = 16.99 × 0.164 = 2.8 gallons

Sample I.D. #: GW-042015-EA-004

Samples Collected: SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/20/15	NICK A KARON	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-113

WELL DATA

Water-Level Date 04/20/15 (MM DD YY)

Water-Level Time 11:30 (2400 Hr. Clock)

Purge/Sample Method: DRY X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) 1088.46 (ft/msl)

Depth to Water (DTW) (from TOC) 4.49 (ft)

Groundwater Elevation (site datum, from TOC) 1083.97 (ft/msl)

Total Well Depth (from TOC) 16.46 (ft)

Water Column Height (well depth - DTW) 11.97 (ft)

Casing ID 02 SS (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or (N)

Filter Device ~~Y~~ or (N) ~~0.45µ~~ or — µ *(circle or fill in)*

Purging Device X

Sampling Device D

A-Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Pump Type (Vol) —
A-P1200M (495 ml)
B-P1101M (395 ml)
C-P1150 (130 ml)
X-Other

Tubing ID (Vol/Ft) A
A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-0.17 inch (4.5 ml/ft)
X -Other

X-Other Foot valve

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~ : Gal) IN (~~PUMP/TUBING~~ : WELL CASING) *circle one of each*	ACTUAL VOL PURGED (~~Liters~~ : Gallons) *circle one*	(~~PUMP/TUBING~~ : WELL) VOLS PURGED *(optional)*
04/20/15	16:07	0:15	20	50	2.5

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~ : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
16:01	4.44						
16:07	START	0.0					
16:12		2.0	7.36	35110	7.5		
16:18		4.0	7.11	35810	7.6		
16:22	DRY	5.0					
	SAMPLE						
08:40	4.78	5.0	6.89	36610	7.4	18.1	

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~ : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	08:40	5.0	6.89	36610	7.4	18.1	

FIELD COMMENTS

Sample Appearance: — **Odor:** None **Color:** Clear **Other:** —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-15 mph / SW Air Temp: ~45°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Early purge water dark gray / sulfur odor; clear during pumping

Well vol. = 16.46 - 4.44 = 12.02 x 0.164 = 2.0 gals.

Sample I.D. #: GW-042115-EA-009

Samples Collected: SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-114

WELL DATA

Water-Level Date 04/21/15 (MM DD YY)

Water-Level Time 10:49 (2400 Hr. Clock)

Purge/Sample Method: 3-5 X = Other; LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) 1097.27 (ft/msl)

Depth to Water (DTW) (from TOC) 77.4 (ft)

Groundwater Elevation (site datum, from TOC) 1089.53 (ft/msl)

Total Well Depth (from TOC) 21.37 (ft)

Water Column Height (well depth - DTW) 13.63 (ft)

Casing ID 02 (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or (N)

Filter Device Y or (N) 0.45µ or — µ *(circle or fill in)*

Purging Device X

Sampling Device D

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other foot valve

Pump Type (Vol) — A-P1200M (495 ml); B-P1101M (395 ml); C-P1150 (130 ml); X-Other

Tubing ID (Vol/Ft) A A-3/8 inch (22 ml/ft); B-1/4 inch (10 ml/ft); C-0.17 inch (4.5 ml/ft); X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~: Gal) IN (~~PUMP/TUBING~~: WELL CASING) *circle one of each*	ACTUAL VOL PURGED (~~Liters~~: Gallons) *circle one*	(~~PUMP/TUBING~~: WELL) VOLS PURGED *(optional)*
04/21/15	09:54	0:23	22	100	4.5

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~: Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
09:46	7.93						
09:54	START	100					
09:57	—	25	6.31	1727	18.5	—	—
10:03	—	50	6.14	1806	19.0	—	—
10:10	—	75	6.02	1824	19.1	—	—
10:17	—	100	6.06	1802	19.2	19.2	—
	SAMPLE						
10:55	9.85	100	6.00	1827	19.1	11.5	—

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~: Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	10:55	100	6.00	1827	19.1	11.5	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: Clear Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~10-20 mph/SW Air Temp: ~50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Early purge dark orange/iron bacteria; water cleared after 3-4 gals. of pumping

Well vol. = 21.37 − 7.93 = 13.44 x 0.164 = 2.2 gallons.

Sample I.D. #: GW-042115-EA-012

Samples Collected: SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-115

WELL DATA

Water-Level Date 04/21/15 (MM DD YY)

Water-Level Time 10:37 (2400 Hr. Clock)

Purge/Sample Method: 3-5 X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) 110183 (ft/msl)

Depth to Water (DTW) (from TOC) 16.42 (ft)

Groundwater Elevation (site datum, from TOC) 108541 (ft/msl)

Total Well Depth (from TOC) 40.70 (ft)

Water Column Height (well depth - DTW) 24.28 (ft)

Casing ID 02 SS (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated ~~Y~~ or (N)

Filter Device Y or (N) ~~0.45µ~~ or — µ *(circle or fill in)*

Purging Device X

Sampling Device D

A-Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Pump Type (Vol) —
A-P1200M (495 ml)
B-P1101M (395 ml)
C-P1150 (130 ml)
X-Other

Tubing ID (Vol/Ft) A
A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-0.17 inch (4.5 ml/ft)
X -Other

X-Other foot valve

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~: Gal) IN (~~PUMP/TUBING~~: WELL CASING) circle one of each	ACTUAL VOL PURGED (~~Liters~~: Gallons) circle one	(~~PUMP/TUBING~~: WELL) VOLS PURGED (optional)
04/21/15	09:19	0:14	4.0	12.0	3.0

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~: Gals) circle one	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
09:11	16.48						
09:19	START	0.0					
09:25	—	4.0	6.59	1162.7	9.8	—	—
09:29	—	8.0	6.59	1159.9	9.9	—	—
09:33	—	12.0	6.60	1593	10.0	12.1	—
:							
:	SAMPLE						
10:35	16.50	12.0	6.83	1369	9.8	59.2	—
:							
:							

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~: Gals) circle one	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	10:35	12.0	6.83	1369	9.8	59.2	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: slightly cloudy Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-20 mph/SW Air Temp: ~50°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

well vol. = 40.70 - 16.48 = 24.22 x 0.164 = 4.0 gallons

Sample I.D. #: GW-042115-EA-011

Samples Collected: SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-207

WELL DATA

Water-Level Date 04/20/15 (MM DD YY)

Water-Level Time 1148 (2400 Hr. Clock)

Purge/Sample Method: 3-5 X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) 1098511 (ft/msl)

Depth to Water (DTW) (from TOC) 927 (ft)

Groundwater Elevation (site datum, from TOC) 1089214 (ft/msl)

Total Well Depth (from TOC) 4978 (ft)

Water Column Height (well depth - DTW) 4051 (ft)

Casing ID 02 SS (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or (N)

Filter Device Y or (N) 0.45µ or — µ *(circle or fill in)*

Purging Device X

Sampling Device D

A-Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

X-Other foot valve

Pump Type (Vol) —
A-P1200M (495 ml)
B-P1101M (395 ml)
C-P1150 (130 ml)
X-Other

Tubing ID (Vol/Ft) A
A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-0.17 inch (4.5 ml/ft)
X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~: Gal) IN (~~PUMP/TUBING~~: WELL CASING) *circle one of each*	ACTUAL VOL PURGED (~~Liters~~: Gallons) *circle one*	(~~PUMP/TUBING~~: WELL) VOLS PURGED *(optional)*
04/21/15	1211	024	66	210	3.2

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~: Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
1202	941						
1211	START	00					
1220	—	70	6.71	31160	10.7	—	—
1228	—	140	6.52	31710	10.6	—	—
1235	—	210	6.51	31160	10.4	—	—
:						184	—
:	SAMPLE						
1405	953	210	7.17	32210	8.9	165	—
:							
:							

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~: Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	1405	210	7.17	32210	8.9	165	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: lt. orange Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~20-30mph/SW Air Temp: ~55°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

Well vol. = 49.78 - 9.41 = 40.37 x 0.164 = 6.6 gallons

Sample I.D. #: GW-042115-EA-014

Samples Collected: SSIPL VOCs (3-40ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL **Sample Point:** MW-209

WELL DATA

Water-Level Date 04 20 15 (MM DD YY) **Water-Level Time** 11:25 (2400 Hr. Clock) **Purge/Sample Method:** DRY X = Other LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) 1086.66 (ft/msl) **Depth to Water (DTW) (from TOC)** 47.1 (ft) **Groundwater Elevation (site datum, from TOC)** 1082.95 (ft/msl)

Total Well Depth (from TOC) 37.71 (ft) Water Column Height (well depth - DTW) 33.0 (ft) Casing ID 02 SS (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or (N) Filter Device Y or (N) 0.45µ or — µ *(circle or fill in)*

Purging Device X A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device D

X-Other foot valve

Pump Type (Vol) X A-P1200M (495 ml) B-P1101M (395 ml) C-P1150 (130 ml) X-Other

Tubing ID (Vol/Ft) A A-3/8 inch (22 ml/ft) B-1/4 inch (10 ml/ft) C-0.17 inch (4.5 ml/ft) X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~ Gal) IN (~~PUMP/TUBING~~ WELL CASING) *circle one of each*	ACTUAL VOL PURGED (~~Liters~~ Gallons) *circle one*	(~~PUMP/TUBING~~ WELL) VOLS PURGED *(optional)*
04 20 15	1459	0:17	5.4	12.5	2.3

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~ Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
1450	47.10						
1459	START	0.0					
1507		5.5	6.39	3150	10.3		
1514		11.0	6.17	3240	10.4		
1516	DRY	12.5					
	SAMPLE						
0805	104.10	12.5	6.05	2970	6.4	12.4	

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~ Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04 21 15	0805	12.5	6.05	2970	6.4	12.4	—

FIELD COMMENTS

Sample Appearance: — **Odor:** None **Color:** Clear **Other:** —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-10 mph / SW Air Temp: ~45°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

Well vol. = 33.0 x 0.164 = 5.4 gallons

Sample I.D. #: GW-042115-EA-007

Samples Collected: SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham		Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-220

WELL DATA

Water-Level Date: 04/20/15 (MM DD YY)

Water-Level Time: 1058 (2400 Hr. Clock)

Purge/Sample Method: DRY (X = Other; LF = Low Flow, P = Passive, Dry = Dry, 3-5 = 3-5 well vols.)

Well Elevation (at TOC): 1090.92 (ft/msl)

Depth to Water (DTW) (from TOC): 7.52 (ft)

Groundwater Elevation (site datum, from TOC): 1083.40 (ft/msl)

Total Well Depth (from TOC): 37.72 (ft)

Water Column Height (well depth - DTW): 30.2 (ft)

Casing ID: 02 SS (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated: Y or N

Filter Device: Y or N; 0.45µ or — µ (circle or fill in)

Purging Device: X

Sampling Device: D

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Pump Type (Vol): X — A-P1200M (495 ml); B-P1101M (395 ml); C-P1150 (130 ml); X-Other

X-Other: foot valve

Tubing ID (Vol/Ft): A — A-3/8 inch (22 ml/ft); B-1/4 inch (10 ml/ft); C-0.17 inch (4.5 ml/ft); X-Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L/Gal) IN (PUMP/TUBING/WELL CASING) circle one of each	ACTUAL VOL PURGED (Liters/Gallons) circle one	(PUMP/TUBING/WELL) VOLS PURGED (optional)
04/20/15	1421	02:22	50	100	2.0

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L/Gals) circle one	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
1420	7.52						
1421	START	100					
1429		150	7.70	3520	10.5		
1442	37.43	100	7.79	3550	10.9		
1443	DRY	100					
	SAMPLE						
0745	20.62	100	7.01	3320	9.3	15.1	

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L/Gals) circle one	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	0745	100	7.01	3320	9.3	15.1	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: Clear Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-15 mph / SW Air Temp: ~45°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Well vol. = 30.2 × 0.164 = 5.0 gals

Sample I.D. #: GW-042115-EA-006

Samples Collected: SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

EA-100 R: 4/10

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-224

WELL DATA

Water-Level Date 04 20 15 (MM DD YY)

Water-Level Time 11:35 (2400 Hr. Clock)

Purge/Sample Method: 3-5 X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) 1089.41 (ft/msl)

Depth to Water (DTW) (from TOC) 10.48 (ft)

Groundwater Elevation (site datum, from TOC) 1078.93 (ft/msl)

Total Well Depth (from TOC) 36.60 (ft)

Water Column Height (well depth - DTW) 26.12 (ft)

Casing ID 02 SS (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or (N)

Filter Device ~~Y~~ or (N) ~~0.45µ~~ or — µ *(circle or fill in)*

Purging Device A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device D

Pump Type (Vol) X — A-P1200M (495 ml), B-P1101M (395 ml), C-P1150 (130 ml), X-Other

Tubing ID (Vol/Ft) X — A-3/8 inch (22 ml/ft), B-1/4 inch (10 ml/ft), C-0.17 inch (4.5 ml/ft), X -Other

X-Other Grundfos on 1/2" tubing

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (~~L~~ Gal) IN (~~PUMP/TUBING~~ WELL CASING) *circle one of each*	ACTUAL VOL PURGED (~~Liters~~ Gallons) *circle one*	(~~PUMP/TUBING~~ WELL) VOLS PURGED *(optional)*
04 20 15	16:38	0:19	4.3	13.5	3.1

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (~~L~~ Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
16:28	10.65						
16:38	START	0.0					
16:44		5.0	7.01	3320	10.6		
16:50		9.0	7.14	3230	11.1		
16:57		13.5	7.16	3240	10.9	45.9	
4/20/15	SAMPLE						
18:00	11.04	13.5	7.21	3270	11.8	17.0	

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (~~L~~ Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04 20 15	18:00	13.5	7.21	3270	11.8	17.0	

FIELD COMMENTS

Sample Appearance: — Odor: NONE Color: CLEAR Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-10mph / W Air Temp: ~60°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): MATRIX SPIKE & MATRIX SPIKE DUPLICATE COLLECTED AT THIS WELL

Well vol. = 36.60 − 10.65 = 25.95 x 0.164 = 4.3 gals.

Sample I.D. #:

GW-042015-EA-001 (MW-224)

GW-042015-EA-002 (MS); GW-042015-EA-003 (MSD)

Samples Collected:

SSIPL VOCs (3-40 ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/20/15	Nick A Karol	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: DUPLICATE #1

WELL DATA

Water-Level Date (MM DD YY): ____

Water-Level Time (2400 Hr. Clock): ____

Purge/Sample Method: ____ X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Water Column Height (well depth - DTW): ____ (ft)

Casing ID: ____ (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated ~~Y~~ or ~~N~~

Filter Device ~~Y~~ or ~~N~~ ~~0.45µ~~ or ____ µ *(circle or fill in)*

Purging Device ____ A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device ____

Pump Type (Vol) ____ A-P1200M (495 ml) B-P1101M (395 ml) C-P1150 (130 ml) X-Other

X-Other ____

Tubing ID (Vol/Ft) ____ A-3/8 inch (22 ml/ft) B-1/4 inch (10 ml/ft) C-0.17 inch (4.5 ml/ft) X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) *circle one of each*	ACTUAL VOL PURGED (Liters:Gallons) *circle one*	(PUMP/TUBING:WELL) VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
SEE FIELD INFORMATION FORM FOR WELL MW-111							

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
014 20 15	1826		6.03	3630	103	73.6	

FIELD COMMENTS

Sample Appearance: ____ Odor: NONE Color: ORANGE Other: ____

Weather Conditions (at sample time): Wind Speed/Direction: 5-10 MPH FROM SW ↗ Air Temp: ~55°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

"DUPLICATE #1" IS DUPLICATE BY CONTAINER SAMPLE COLLECTED FROM WELL MW-111

Sample I.D. #: GW-042015-EA-005

Samples Collected: SSIPL VOCs (3-40ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/20/15	NICK A KARON	[signature]	Eagon & Associates, Inc.

EA-100 R: 4/10

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: DUPLICATE #2

WELL DATA

Water-Level Date (MM DD YY)

Water-Level Time (2400 Hr. Clock)

Purge/Sample Method: — X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Water Column Height (well depth - DTW) (ft)

Casing ID (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated Y or N

Filter Device Y or N 0.45µ or ___ µ *(circle or fill in)*

Purging Device —
A-Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Sampling Device —

X-Other —

Pump Type (Vol) —
A-P1200M (495 ml)
B-P1101M (395 ml)
C-P1150 (130 ml)
X-Other

Tubing ID (Vol/Ft) —
A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-0.17 inch (4.5 ml/ft)
X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) *circle one of each*	ACTUAL VOL PURGED (Liters:Gallons) *circle one*	(PUMP/TUBING:WELL) VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)
SEE FIELD INFORMATION FORM FOR WELL MW-107							

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	1810		6.84	2720	8.9	87.3	

Sample Appearance: — Odor: strong/stale Color: slight cloudy gray Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~20-40mph / W Air Temp: ~55°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

"Duplicate #2" IS DUPLICATE BY CONTAINER SAMPLE COLLECTED FROM WELL MW-107

Sample I.D. #:
GW-042115-EA-016

Samples Collected:
SSIPL VOCs (3-40ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

4/21/15 — Date
Andrew D. Graham — Name
Signature
Eagon & Associates, Inc. — Company

EA-100 R: 4/10

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: RINSE BLANK #2

WELL DATA

Water-Level Date (MM DD YY) **Water-Level Time** (2400 Hr. Clock) **Purge/Sample Method:** — X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) (ft/msl) **Depth to Water (DTW) (from TOC)** (ft) **Groundwater Elevation (site datum, from TOC)** (ft/msl)

Total Well Depth (from TOC) (ft) Water Column Height (well depth - DTW) (ft) Casing ID (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated ~~Y~~ or ~~N~~ Filter Device ~~Y~~ or ~~N~~ ~~0.45µ~~ or — µ *(circle or fill in)*

Purging Device — A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device —

X-Other —

Pump Type (Vol) — A-P1200M (495 ml) B-P1101M (395 ml) C-P1150 (130 ml) X-Other

Tubing ID (Vol/Ft) — A-3/8 inch (22 ml/ft) B-1/4 inch (10 ml/ft) C-0.17 inch (4.5 ml/ft) X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) *circle one of each*	ACTUAL VOL PURGED (Liters:Gallons) *circle one*	(PUMP/TUBING:WELL) VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04 21 15	1655						

FIELD COMMENTS

Sample Appearance: — Odor: None Color: clear Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~20-40mph / W Air Temp: ~55°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): "Rinse Blank #2" sample was collected by pouring lab-supplied deionized water over S.S. bailer and into sample containers; sample collected immediately after decontaminating bailer following use to collect samples from well MW-107.

Sample I.D. #: RB-042115-EA-017

Samples Collected: SSIPL VOCs (3-40ml VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D Graham		Eagon & Associates, Inc.

EA-100 R: 4/10

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: RINSE BLANK #1

WELL DATA

Water-Level Date (MM DD YY)

Water-Level Time (2400 Hr. Clock)

Purge/Sample Method: — X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Water Column Height (well depth - DTW) (ft)

Casing ID (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated ~~Y~~ or ~~N~~

Filter Device ~~Y~~ or ~~N~~ ~~0.45µ~~ or — µ *(circle or fill in)*

Purging Device —

Sampling Device —

A-Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

X-Other —

Pump Type (Vol) —
A-P1200M (495 ml)
B-P1101M (395 ml)
C-P1150 (130 ml)
X-Other

Tubing ID (Vol/Ft) —
A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-0.17 inch (4.5 ml/ft)
X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) *circle one of each*	ACTUAL VOL PURGED (Liters:Gallons) *circle one*	(PUMP/TUBING:WELL) VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/21/15	0855						

FIELD COMMENTS

Sample Appearance: — Odor: None Color: Clear Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-15mph/SW Air Temp: ~45°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): "Rinse Blank #1" sample collected by pouring lab-supplied deionized water over S.S. bailer and into sample containers; sampled collected immediately after decontaminating bailer after collecting samples at well MW-113.

Sample I.D. #: RB-042115-EA-010

Samples Collected: SSIPL VOCs (3-40mL VIALS)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

EA-100 R: 4/10

FIELD METER CALIBRATION RECORD

Project Name: *Summit National Superfund Site* Sampler(s): A. GRAHAM / N. KAROW

pH Meter(s): Make/Model/Serial No: EUTECH / 180251

Buffer Brand/Expiration: pH 4 IE / 8.28.15 ; pH 7 IE / 2.7.16 ; pH 10 —

Date	Time	Calibrate/Check	pH 4 Buffer Result (S.U.)	pH 7 Buffer Result (S.U.)	pH 10 Buffer Result (S.U.)	Temp. of Cal. Soln' (°C)
4/20/15	1359	Calibrate	4.01	7.03	—	19.9
4/21/15	0724	CALIBRATE	4.02	7.04	—	17.0
4/21/15	1332	CALIBRATE	4.01	7.03	—	13.8
4/22/15	0737	CALIBRATE	4.01	7.06	—	11.0

Conductivity/Temp. Meter(s): Make/Model/Serial No: EUTECH / 180251

Cond. Solution Brand/Expiration: IE / 1413 (6/6/15) 4490 (1/2016) Cond. Solution Value (@ 25 °C): 1413 & 4490

Date	Time	Calibrate/Check	Cond. Standard Result (µmhos/cm)	Temp. of Cond. Soln' (°C)	Notes:
4/20/15	1403	Calibrate	1413	19.8	
4/21/15	0723	CALIBRATE	1413	17.1	
4/21/15	1333	CALIBRATE	1415	13.8	
4/22/15	0735	CALIBRATE	1414	11.1	

Turbidity Meter(s): Make/Model/Serial No.: HACH 2100Q / 14118C037172

Date	Time	Calibrate/Check	Gel Value (NTU)	Reading (NTU)	Notes:
4/20/14	1358	Check	5.59	5.61	
4/21/15	0721	CHECK	5.59	5.70	
4/21/15	1329	CHECK	5.59	5.60	
4/22/15	0734	CHECK	5.59	5.64	

Sampler (Name): Andrew D. Graham Sampler (Signature): [signature]

MONITORING INSTRUMENTS

Industrial Environmental Monitoring Instruments, Inc.

7410 Worthington-Galena Road
Worthington, Ohio 43085
Phone: (614) 436-4933
Fax: (614) 436-9144

Website: www.ierents.com

Certificate of Calibration and Operation Check

Instrument: Oakton ph/con 10
Serial #: 735029

Date: 4/17/2015
Technician: William Drake

	pH	Conductivity
1st Point	7.00 pH	1.413 mS/cm
2nd Point	4.00 pH	n/a
3rd Point	10.00 pH	n/a

		Lot#	Expires:
Calibration Solution:	4 pH	C469196	4/4/2016
Calibration Solution:	7 pH	C473644	9/7/2016
Calibration Solution:	10 pH	C366453	12/12/2015
Calibration Solution:	1.413 mS/cm	11040	6/11/2015

The calibration standards used are NIST traceable.
Instrument must be calibrated and operated according to manufacturers specifications.

APPENDIX B.

LABORATORY ANALYTICAL REPORTS AND FIELD FORMS, APRIL 2015 S&E DITCH SURFACE WATER AND SEDIMENT SAMPLING RESULTS

SAMPLE IDENTIFICATION SUMMARY
APRIL 2015 SAMPLING EVENT
SUMMIT NATIONAL SUPERFUND SITE

Sample ID	Sample Name	Lab ID
Investigative Samples (GW)		
MW-4	GW-042115-EA-008	JB93083-6
MW-11	GW-042115-EA-013	JB93083-11
MW-107	GW-042115-EA-015	JB93083-13
MW-108	GW-042115-EA-018	JB93083-16
MW-111	GW-042015-EA-004	JB93083-2
MW-113	GW-042115-EA-009	JB93083-7
MW-114	GW-042115-EA-012	JB93083-10
MW-115	GW-042115-EA-011	JB93083-9
MW-207	GW-042115-EA-014	JB93083-12
MW-209	GW-042115-EA-007	JB93083-5
MW-220	GW-042115-EA-006	JB93083-4
MW-224	GW-042015-EA-001	JB93083-1
QA/QC Samples (GW)		
Duplicate #1	GW-042015-EA-005	JB93083-3
Duplicate #2	GW-042115-EA-016	JB93083-14
MS	GW-042015-EA-002	JB93083-1S
MSD	GW-042015-EA-003	JB93083-1D
Rinse Blank #1	RB-042115-EA-010	JB93083-8
Rinse Blank #2	RB-042015-EA-017	JB93083-15
Investigative Sample (Ditch)		
S&E Ditch Sediment	SD-042215-EA-024	JB93065-1
QA/QC Samples (Ditch)		
S&E Ditch Sediment (DUP)	SD-042215-EA-027	JB93065-4
S&E Ditch Sediment (DUP-2)	SD-042215-EA-025	JB93065-2
S&E Ditch Sediment (DUP-3)	SD-042215-EA-026	JB93065-3
S&E Ditch Sediment (RB)	RB-042215-EA-028	JB93065-5
Investigative Sample (Surface Water)		
Surface Water	SW-042215-EA-019	JB93082-1
QA/QC Samples (Surface Water)		
Surface Water (DUP)	SW-042215-EA-022	JB93082-4
Surface Water (FB)	FB-042215-EA-023	JB93082-5
Surface Water (DUP-2)	SW-042215-EA-020	JB93082-2
Surface Water (DUP-3)	SW-042215-EA-021	JB93082-3

Notes:

DUP - Duplicate; RB - Rinse Blank; FB - Field Blank; MS - Matrix Spike; MSD - Matrix Spike Duplicate

New Jersey
ACCUTEST LABORATORIES

05/04/15

Technical Report for

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Accutest Job Number: JB93082

Sampling Date: 04/22/15

Report to:

Eagon & Associates, Inc.
100 West Old Wilson Bridge Road Suite 115
Worthington, OH 43085
MGibson@eagon.cc; A.Graham@eagon.cc

ATTN: Michael T. Gibson

Total number of pages in report: **60**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy T. Cole
Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **5**
Section 4: Sample Results **6**
4.1: JB93082-1: SW-042215-EA-019 7
4.2: JB93082-2: SW-042215-EA-020 12
4.3: JB93082-3: SW-042215-EA-021 17
4.4: JB93082-4: SW-042215-EA-022 22
4.5: JB93082-5: FB-042215-EA-023 27
4.6: JB93082-6: TRIP BLANK 32
Section 5: Misc. Forms **34**
5.1: Chain of Custody 35
5.2: Sample Tracking Chronicle 37
Section 6: GC/MS Volatiles - QC Data Summaries **38**
6.1: Method Blank Summary 39
6.2: Blank Spike Summary 43
6.3: Matrix Spike Summary 45
6.4: Duplicate Summary 47
6.5: Surrogate Recovery Summaries 49
Section 7: GC/MS Semi-volatiles - QC Data Summaries **50**
7.1: Method Blank Summary 51
7.2: Blank Spike Summary 54
7.3: Matrix Spike/Matrix Spike Duplicate Summary 57
7.4: Surrogate Recovery Summaries 60

Accutest Laboratories

Sample Summary

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Job No: JB93082

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB93082-1	04/22/15	09:35	AG	04/23/15	AQ	Surface Water	SW-042215-EA-019
JB93082-2	04/22/15	09:35	AG	04/23/15	AQ	Surface Water	SW-042215-EA-020
JB93082-3	04/22/15	09:35	AG	04/23/15	AQ	Surface Water	SW-042215-EA-021
JB93082-4	04/22/15	09:35	AG	04/23/15	AQ	Surface Water	SW-042215-EA-022
JB93082-5	04/22/15	10:00	AG	04/23/15	AQ	Field Blank Water	FB-042215-EA-023
JB93082-6	04/22/15	10:00	AG	04/23/15	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Eagon & Associates, Inc.	**Job No**	JB93082
Site:	Summit National Superfund Site, Deerfield OH	**Report Date**	5/4/2015 4:04:02 PM

On 04/23/2015, 4 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a cooler temperatures (Initial/Adjusted): #1: (3.3/1.5) C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB93082 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V2B5831

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93192-3MS, JB93192-4DUP were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP83394

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93082-1MS, JB93082-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for 4-Chloroaniline are outside control limits for sample OP83394-MSD. Analytical precision exceeds in-house control limits.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB93082
Account: Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH
Collected: 04/22/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB93082-1	**SW-042215-EA-019**					
cis-1,2-Dichloroethene		1.4	1.0	0.27	ug/l	SW846 8260C
1,2-Dichloroethene (total)		1.4	1.0	0.27	ug/l	SW846 8260C
Trichloroethene		0.27 J	1.0	0.22	ug/l	SW846 8260C
JB93082-2	**SW-042215-EA-020**					
cis-1,2-Dichloroethene		1.4	1.0	0.27	ug/l	SW846 8260C
1,2-Dichloroethene (total)		1.4	1.0	0.27	ug/l	SW846 8260C
Trichloroethene		0.35 J	1.0	0.22	ug/l	SW846 8260C
JB93082-3	**SW-042215-EA-021**					
cis-1,2-Dichloroethene		1.6	1.0	0.27	ug/l	SW846 8260C
1,2-Dichloroethene (total)		1.6	1.0	0.27	ug/l	SW846 8260C
Trichloroethene		0.33 J	1.0	0.22	ug/l	SW846 8260C
JB93082-4	**SW-042215-EA-022**					
cis-1,2-Dichloroethene		1.3	1.0	0.27	ug/l	SW846 8260C
1,2-Dichloroethene (total)		1.3	1.0	0.27	ug/l	SW846 8260C
Trichloroethene		0.27 J	1.0	0.22	ug/l	SW846 8260C

JB93082-5 **FB-042215-EA-023**

No hits reported in this sample.

JB93082-6 **TRIP BLANK**

No hits reported in this sample.

New Jersey
ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SW-042215-EA-019		
Lab Sample ID:	JB93082-1	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B130482.D	1	04/27/15	BK	n/a	n/a	V2B5831
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.4	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.4	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-019		
Lab Sample ID:	JB93082-1	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.27	1.0	0.22	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	98%		84-119%
460-00-4	4-Bromofluorobenzene	96%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-019		
Lab Sample ID:	JB93082-1	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M113720.D	1	04/26/15	AD	04/24/15	OP83394	EM4722
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-019		
Lab Sample ID:	JB93082-1	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		12-110%
4165-62-2	Phenol-d5	33%		10-110%
118-79-6	2,4,6-Tribromophenol	72%		42-154%
4165-60-0	Nitrobenzene-d5	95%		29-139%
321-60-8	2-Fluorobiphenyl	91%		33-129%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-019		
Lab Sample ID:	JB93082-1	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	102%		10-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-020		
Lab Sample ID:	JB93082-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B130483.D	1	04/27/15	BK	n/a	n/a	V2B5831
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.4	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.4	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-020		
Lab Sample ID:	JB93082-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.35	1.0	0.22	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-120%
17060-07-0	1,2-Dichloroethane-D4	104%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-020		
Lab Sample ID:	JB93082-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M113721.D	1	04/26/15	AD	04/24/15	OP83394	EM4722
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-020		
Lab Sample ID:	JB93082-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		12-110%
4165-62-2	Phenol-d5	32%		10-110%
118-79-6	2,4,6-Tribromophenol	76%		42-154%
4165-60-0	Nitrobenzene-d5	93%		29-139%
321-60-8	2-Fluorobiphenyl	91%		33-129%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-020		
Lab Sample ID:	JB93082-2	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		10-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-021		
Lab Sample ID:	JB93082-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B130484.D	1	04/27/15	BK	n/a	n/a	V2B5831
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.6	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.6	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-021		
Lab Sample ID:	JB93082-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.33	1.0	0.22	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	104%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	96%		78-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-021		
Lab Sample ID:	JB93082-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M113722.D	1	04/26/15	AD	04/24/15	OP83394	EM4722
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-021		
Lab Sample ID:	JB93082-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		12-110%
4165-62-2	Phenol-d5	32%		10-110%
118-79-6	2,4,6-Tribromophenol	79%		42-154%
4165-60-0	Nitrobenzene-d5	87%		29-139%
321-60-8	2-Fluorobiphenyl	86%		33-129%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-021		
Lab Sample ID:	JB93082-3	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	94%		10-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-022		
Lab Sample ID:	JB93082-4	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B130485.D	1	04/27/15	BK	n/a	n/a	V2B5831
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.3	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.3	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-022		
Lab Sample ID:	JB93082-4	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.27	1.0	0.22	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	97%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-022		
Lab Sample ID:	JB93082-4	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M113723.D	1	04/27/15	AD	04/24/15	OP83394	EM4722
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-022		
Lab Sample ID:	JB93082-4	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		12-110%
4165-62-2	Phenol-d5	32%		10-110%
118-79-6	2,4,6-Tribromophenol	80%		42-154%
4165-60-0	Nitrobenzene-d5	91%		29-139%
321-60-8	2-Fluorobiphenyl	89%		33-129%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-042215-EA-022		
Lab Sample ID:	JB93082-4	**Date Sampled:**	04/22/15
Matrix:	AQ - Surface Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		10-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-042215-EA-023		
Lab Sample ID:	JB93082-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B130480.D	1	04/27/15	BK	n/a	n/a	V2B5831
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-042215-EA-023		
Lab Sample ID:	JB93082-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-042215-EA-023		
Lab Sample ID:	JB93082-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M113724.D	1	04/27/15	AD	04/24/15	OP83394	EM4722
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-042215-EA-023		
Lab Sample ID:	JB93082-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		12-110%
4165-62-2	Phenol-d5	32%		10-110%
118-79-6	2,4,6-Tribromophenol	84%		42-154%
4165-60-0	Nitrobenzene-d5	89%		29-139%
321-60-8	2-Fluorobiphenyl	87%		33-129%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-042215-EA-023		
Lab Sample ID:	JB93082-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Field Blank Water	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	101%		10-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB93082-6	**Date Sampled:**	04/22/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B130481.D	1	04/27/15	BK	n/a	n/a	V2B5831
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB93082-6	**Date Sampled:**	04/22/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	98%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking # 6250 6352 8696
Bottle Order Control #
Accutest Quote #
Accutest Job # VD93082

Client / Reporting Information

Company Name: Eagon & Associates, Inc.
Street Address: 100 Old Wilson Bridge Rd Ste 115
City State Zip: Worthington, Ohio 43085
Project Contact: Mike Gibson (mgibson@eagon.cc) E-mail
Phone #: (614) 888-5760 Fax #: (614) 888-5763
Sampler(s) Name(s): Andy Graham Phone #: (614) 271-4582

Project Information

Project Name: Summit National Superfund Site - 2015 Annual Monitoring Event
Street: 8174 Waterloo Road (SR 224)
City State: Deerfield, Ohio 44111
Project #: --
Client Purchase Order #: --
Project Manager: Matt Cordova

Billing Information (if different from Report to)

Company Name: Summit National Facility Trust (SNFT)
Street Address: See File
City State Zip: See File
Attention: SNFT

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260TCL	AB8270TCL	LAB USE ONLY
1	SW-042215-EA-019		4/22/15	0935	AG	SW	5	X				X				X	X	
2	SW-042215-EA-020		↑	0935	AG	SW	5	X				X				X	X	
3	SW-042215-EA-021			0935	AG	SW	5	X				X				X	X	E40
4	SW-042215-EA-022			0935	AG	SW	5	X				X				X	X	V838
5	FB-042215-EA-023		↓	1000	AG	O	5	X				X				X	X	
6	TRIP BLANK		—	—	—	O	2	X					X			X		

Turnaround Time (Business days)

- Std. 10 Business Days
- 5 Day RUSH
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY
- other

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULLT1 (Level 3+4)
- NJ Reduced
- Commercial "C"
- NYASP Category A
- NYASP Category B
- State Forms
- EDD Format
- Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT 3/4/15
LABEL VERIFICATION DG

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Andrew D. Graham	4/22/15@1200	1	2	4/23/15 1000	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 724 ☑ Intact ☐ Not Intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 3.3

JB93082: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB93082 **Client:** _____ **Project:** _____

Date / Time Received: 4/23/2015 10:00:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (3.3/1.5); 0

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB93082: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Job No: JB93082

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93082-1 Collected: 22-APR-15 09:35 By: AG Received: 23-APR-15 By: AM SW-042215-EA-019						
JB93082-1	SW846 8270D	26-APR-15 22:44	AD	24-APR-15	GM	AB8270TCL
JB93082-1	SW846 8260C	27-APR-15 17:39	BK			V8260TCL
JB93082-2 Collected: 22-APR-15 09:35 By: AG Received: 23-APR-15 By: AM SW-042215-EA-020						
JB93082-2	SW846 8270D	26-APR-15 23:13	AD	24-APR-15	GM	AB8270TCL
JB93082-2	SW846 8260C	27-APR-15 18:11	BK			V8260TCL
JB93082-3 Collected: 22-APR-15 09:35 By: AG Received: 23-APR-15 By: AM SW-042215-EA-021						
JB93082-3	SW846 8270D	26-APR-15 23:43	AD	24-APR-15	GM	AB8270TCL
JB93082-3	SW846 8260C	27-APR-15 18:40	BK			V8260TCL
JB93082-4 Collected: 22-APR-15 09:35 By: AG Received: 23-APR-15 By: AM SW-042215-EA-022						
JB93082-4	SW846 8270D	27-APR-15 00:12	AD	24-APR-15	GM	AB8270TCL
JB93082-4	SW846 8260C	27-APR-15 19:09	BK			V8260TCL
JB93082-5 Collected: 22-APR-15 10:00 By: AG Received: 23-APR-15 By: AM FB-042215-EA-023						
JB93082-5	SW846 8270D	27-APR-15 00:41	AD	24-APR-15	GM	AB8270TCL
JB93082-5	SW846 8260C	27-APR-15 16:41	BK			V8260TCL
JB93082-6 Collected: 22-APR-15 10:00 By: AG Received: 23-APR-15 By: AM TRIP BLANK						
JB93082-6	SW846 8260C	27-APR-15 17:10	BK			V8260TCL

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5831-MB	2B130470.D	1	04/27/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5, JB93082-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5831-MB	2B130470.D	1	04/27/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5, JB93082-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	105%	73-122%
2037-26-5	Toluene-D8	98%	84-119%
460-00-4	4-Bromofluorobenzene	99%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5831-MB2	2B130522.D	1	04/28/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93192-4DUP, JB93192-3MS

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5831-MB2	2B130522.D	1	04/28/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93192-4DUP, JB93192-3MS

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	109%	73-122%
2037-26-5	Toluene-D8	99%	84-119%
460-00-4	4-Bromofluorobenzene	97%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5831-BS	2B130471.D	1	04/27/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5, JB93082-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	43.3	87	47-144
71-43-2	Benzene	50	50.1	100	81-119
75-27-4	Bromodichloromethane	50	56.0	112	81-125
75-25-2	Bromoform	50	56.4	113	74-128
74-83-9	Bromomethane	50	46.3	93	52-146
78-93-3	2-Butanone (MEK)	50	47.4	95	68-130
75-15-0	Carbon disulfide	50	43.9	88	71-129
56-23-5	Carbon tetrachloride	50	59.2	118	77-140
108-90-7	Chlorobenzene	50	52.6	105	84-116
75-00-3	Chloroethane	50	47.1	94	70-148
67-66-3	Chloroform	50	52.4	105	81-120
74-87-3	Chloromethane	50	35.7	71	50-143
124-48-1	Dibromochloromethane	50	56.6	113	81-122
75-34-3	1,1-Dichloroethane	50	45.9	92	80-125
107-06-2	1,2-Dichloroethane	50	54.9	110	78-131
75-35-4	1,1-Dichloroethene	50	47.7	95	73-127
156-59-2	cis-1,2-Dichloroethene	50	46.3	93	77-118
156-60-5	trans-1,2-Dichloroethene	50	44.8	90	75-118
540-59-0	1,2-Dichloroethene (total)	100	91.1	91	76-117
78-87-5	1,2-Dichloropropane	50	44.5	89	80-124
10061-01-5	cis-1,3-Dichloropropene	50	51.9	104	72-121
10061-02-6	trans-1,3-Dichloropropene	50	56.4	113	73-122
100-41-4	Ethylbenzene	50	51.2	102	80-118
591-78-6	2-Hexanone	50	47.3	95	66-128
108-10-1	4-Methyl-2-pentanone(MIBK)	50	45.0	90	73-129
75-09-2	Methylene chloride	50	44.0	88	75-122
100-42-5	Styrene	50	54.8	110	81-121
79-34-5	1,1,2,2-Tetrachloroethane	50	45.8	92	69-116
127-18-4	Tetrachloroethene	50	53.8	108	69-138
108-88-3	Toluene	50	51.8	104	80-122
71-55-6	1,1,1-Trichloroethane	50	56.5	113	80-131
79-00-5	1,1,2-Trichloroethane	50	50.5	101	78-122
79-01-6	Trichloroethene	50	53.5	107	83-122
75-01-4	Vinyl chloride	50	39.2	78	57-138
1330-20-7	Xylene (total)	150	161	107	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B5831-BS	2B130471.D	1	04/27/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5, JB93082-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	73-122%
2037-26-5	Toluene-D8	102%	84-119%
460-00-4	4-Bromofluorobenzene	96%	78-117%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93192-3MS	2B130523.D	1	04/28/15	BK	n/a	n/a	V2B5831
JB93192-3	2B130488.D	1	04/27/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5, JB93082-6

CAS No.	Compound	JB93192-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		50	48.9	98	33-158
71-43-2	Benzene	ND		50	49.7	99	43-138
75-27-4	Bromodichloromethane	ND		50	56.2	112	72-128
75-25-2	Bromoform	ND		50	58.5	117	70-131
74-83-9	Bromomethane	ND		50	45.4	91	47-142
78-93-3	2-Butanone (MEK)	ND		50	49.6	99	56-146
75-15-0	Carbon disulfide	ND		50	47.4	95	38-136
56-23-5	Carbon tetrachloride	ND		50	61.5	123	45-149
108-90-7	Chlorobenzene	ND		50	52.8	106	70-124
75-00-3	Chloroethane	ND		50	45.0	90	47-139
67-66-3	Chloroform	ND		50	52.6	105	66-126
74-87-3	Chloromethane	ND		50	35.7	71	41-140
124-48-1	Dibromochloromethane	ND		50	56.0	112	75-126
75-34-3	1,1-Dichloroethane	ND		50	46.1	92	60-129
107-06-2	1,2-Dichloroethane	ND		50	58.3	117	72-133
75-35-4	1,1-Dichloroethene	ND		50	49.4	99	40-137
156-59-2	cis-1,2-Dichloroethene	ND		50	48.5	97	57-128
156-60-5	trans-1,2-Dichloroethene	ND		50	47.3	95	53-128
540-59-0	1,2-Dichloroethene (total)	ND		100	95.9	96	55-128
78-87-5	1,2-Dichloropropane	ND		50	45.1	90	69-127
10061-01-5	cis-1,3-Dichloropropene	ND		50	50.8	102	67-129
10061-02-6	trans-1,3-Dichloropropene	ND		50	54.6	109	68-130
100-41-4	Ethylbenzene	ND		50	53.1	106	38-139
591-78-6	2-Hexanone	ND		50	47.5	95	55-148
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	48.9	98	68-139
75-09-2	Methylene chloride	ND		50	44.8	90	63-128
100-42-5	Styrene	ND		50	52.6	105	61-134
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	49.1	98	67-126
127-18-4	Tetrachloroethene	ND		50	56.9	114	43-145
108-88-3	Toluene	ND		50	51.9	104	51-136
71-55-6	1,1,1-Trichloroethane	ND		50	59.7	119	51-141
79-00-5	1,1,2-Trichloroethane	ND		50	48.0	96	71-127
79-01-6	Trichloroethene	ND		50	56.1	112	55-136
75-01-4	Vinyl chloride	ND		50	41.4	83	34-147
1330-20-7	Xylene (total)	ND		150	162	108	46-137

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93192-3MS	2B130523.D	1	04/28/15	BK	n/a	n/a	V2B5831
JB93192-3	2B130488.D	1	04/27/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5, JB93082-6

CAS No.	Surrogate Recoveries	MS	JB93192-3	Limits
1868-53-7	Dibromofluoromethane	102%	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	108%	106%	73-122%
2037-26-5	Toluene-D8	101%	99%	84-119%
460-00-4	4-Bromofluorobenzene	99%	96%	78-117%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93192-4DUP	2B130524.D	1	04/28/15	BK	n/a	n/a	V2B5831
JB93192-4	2B130489.D	1	04/27/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5, JB93082-6

CAS No.	Compound	JB93192-4 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	30
71-43-2	Benzene	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
75-15-0	Carbon disulfide	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
540-59-0	1,2-Dichloroethene (total)	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	30
591-78-6	2-Hexanone	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	30
100-42-5	Styrene	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
1330-20-7	Xylene (total)	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93192-4DUP	2B130524.D	1	04/28/15	BK	n/a	n/a	V2B5831
JB93192-4	2B130489.D	1	04/27/15	BK	n/a	n/a	V2B5831

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5, JB93082-6

CAS No.	Surrogate Recoveries	DUP	JB93192-4	Limits
1868-53-7	Dibromofluoromethane	103%	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	109%	104%	73-122%
2037-26-5	Toluene-D8	98%	99%	84-119%
460-00-4	4-Bromofluorobenzene	95%	96%	78-117%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB93082-1	2B130482.D	101	102	98	96
JB93082-2	2B130483.D	102	104	100	99
JB93082-3	2B130484.D	100	104	99	96
JB93082-4	2B130485.D	101	103	100	97
JB93082-5	2B130480.D	99	102	99	100
JB93082-6	2B130481.D	100	103	99	98
JB93192-3MS	2B130523.D	102	108	101	99
JB93192-4DUP	2B130524.D	103	109	98	95
V2B5831-BS	2B130471.D	101	102	102	96
V2B5831-MB	2B130470.D	101	105	98	99
V2B5831-MB2	2B130522.D	101	109	99	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%

New Jersey ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-MB1	M113713.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	

Method Blank Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-MB1	M113713.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

CAS No.	Compound	Result	RL	MDL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	54%	12-110%
4165-62-2	Phenol-d5	35%	10-110%
118-79-6	2,4,6-Tribromophenol	84%	42-154%
4165-60-0	Nitrobenzene-d5	88%	29-139%

Method Blank Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-MB1	M113713.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	87%	33-129%
1718-51-0	Terphenyl-d14	96%	10-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM test	4.89	4.1	ug/l	J
	Internal standard added for SIM test	6.84	4.5	ug/l	J
	Internal standard added for SIM test	9.17	4.1	ug/l	J
	Internal standard added for SIM test	18.59	4.2	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Blank Spike Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-BS1	M113714.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	38.9	78	44-118
59-50-7	4-Chloro-3-methyl phenol	50	45.7	91	47-133
120-83-2	2,4-Dichlorophenol	50	44.4	89	49-129
105-67-9	2,4-Dimethylphenol	50	45.0	90	41-137
51-28-5	2,4-Dinitrophenol	100	77.5	78	38-154
534-52-1	4,6-Dinitro-o-cresol	50	42.5	85	40-143
95-48-7	2-Methylphenol	50	37.5	75	39-112
	3&4-Methylphenol	50	33.3	67	36-107
88-75-5	2-Nitrophenol	50	43.3	87	47-132
100-02-7	4-Nitrophenol	50	25.4	51	13-121
87-86-5	Pentachlorophenol	50	35.5	71	42-144
108-95-2	Phenol	50	16.1	32	10-110
95-95-4	2,4,5-Trichlorophenol	50	45.2	90	59-129
88-06-2	2,4,6-Trichlorophenol	50	44.5	89	56-132
83-32-9	Acenaphthene	50	44.3	89	50-122
208-96-8	Acenaphthylene	50	39.4	79	42-110
120-12-7	Anthracene	50	45.2	90	55-124
56-55-3	Benzo(a)anthracene	50	46.3	93	48-126
50-32-8	Benzo(a)pyrene	50	45.7	91	42-135
205-99-2	Benzo(b)fluoranthene	50	48.8	98	42-139
191-24-2	Benzo(g,h,i)perylene	50	36.1	72	38-140
207-08-9	Benzo(k)fluoranthene	50	47.0	94	43-132
101-55-3	4-Bromophenyl phenyl ether	50	46.0	92	54-133
85-68-7	Butyl benzyl phthalate	50	49.5	99	31-162
91-58-7	2-Chloronaphthalene	50	41.5	83	43-114
106-47-8	4-Chloroaniline	50	18.9	38	11-110
86-74-8	Carbazole	50	45.2	90	59-120
218-01-9	Chrysene	50	48.6	97	49-132
111-91-1	bis(2-Chloroethoxy)methane	50	47.5	95	46-133
111-44-4	bis(2-Chloroethyl)ether	50	42.7	85	45-130
108-60-1	bis(2-Chloroisopropyl)ether	50	40.5	81	38-129
7005-72-3	4-Chlorophenyl phenyl ether	50	43.5	87	52-128
95-50-1	1,2-Dichlorobenzene	50	37.8	76	29-114
541-73-1	1,3-Dichlorobenzene	50	35.1	70	26-108
106-46-7	1,4-Dichlorobenzene	50	35.3	71	27-109
121-14-2	2,4-Dinitrotoluene	50	46.4	93	56-141

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-BS1	M113714.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	50	46.4	93	57-140
91-94-1	3,3'-Dichlorobenzidine	100	36.0	36	21-114
53-70-3	Dibenzo(a,h)anthracene	50	38.3	77	40-141
132-64-9	Dibenzofuran	50	45.4	91	57-114
84-74-2	Di-n-butyl phthalate	50	49.4	99	47-157
117-84-0	Di-n-octyl phthalate	50	53.3	107	43-159
84-66-2	Diethyl phthalate	50	48.5	97	36-147
131-11-3	Dimethyl phthalate	50	46.7	93	16-154
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.9	104	44-157
206-44-0	Fluoranthene	50	46.1	92	55-131
86-73-7	Fluorene	50	45.1	90	54-126
118-74-1	Hexachlorobenzene	50	46.0	92	48-130
87-68-3	Hexachlorobutadiene	50	38.0	76	19-120
77-47-4	Hexachlorocyclopentadiene	100	68.1	68	10-121
67-72-1	Hexachloroethane	50	35.4	71	22-115
193-39-5	Indeno(1,2,3-cd)pyrene	50	36.3	73	38-139
78-59-1	Isophorone	50	50.2	100	43-131
91-57-6	2-Methylnaphthalene	50	45.9	92	46-112
88-74-4	2-Nitroaniline	50	52.3	105	48-149
99-09-2	3-Nitroaniline	50	25.2	50	27-112
100-01-6	4-Nitroaniline	50	44.7	89	52-121
91-20-3	Naphthalene	50	39.9	80	36-113
98-95-3	Nitrobenzene	50	48.6	97	41-133
621-64-7	N-Nitroso-di-n-propylamine	50	43.5	87	45-136
86-30-6	N-Nitrosodiphenylamine	50	46.5	93	52-126
85-01-8	Phenanthrene	50	45.2	90	54-122
129-00-0	Pyrene	50	45.4	91	51-128
120-82-1	1,2,4-Trichlorobenzene	50	38.8	78	28-114

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	52%	12-110%
4165-62-2	Phenol-d5	33%	10-110%
118-79-6	2,4,6-Tribromophenol	91%	42-154%
4165-60-0	Nitrobenzene-d5	94%	29-139%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-BS1	M113714.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	91%	33-129%
1718-51-0	Terphenyl-d14	100%	10-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-MS	M113725.D	1	04/27/15	AD	04/24/15	OP83394	EM4722
OP83394-MSD	M113726.D	1	04/27/15	AD	04/24/15	OP83394	EM4722
JB93082-1	M113720.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

CAS No.	Compound	JB93082-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	80.7	81	100	79.0	79	2	39-126/24
59-50-7	4-Chloro-3-methyl phenol	ND		100	89.2	89	100	88.6	89	1	47-136/24
120-83-2	2,4-Dichlorophenol	ND		100	87.2	87	100	85.9	86	2	45-134/24
105-67-9	2,4-Dimethylphenol	ND		100	87.4	87	100	78.8	79	10	32-152/30
51-28-5	2,4-Dinitrophenol	ND		200	162	81	200	162	81	0	24-169/31
534-52-1	4,6-Dinitro-o-cresol	ND		100	80.9	81	100	82.9	83	2	27-151/30
95-48-7	2-Methylphenol	ND		100	83.5	84	100	81.5	82	2	41-122/25
	3&4-Methylphenol	ND		100	79.6	80	100	74.2	74	7	34-129/24
88-75-5	2-Nitrophenol	ND		100	84.4	84	100	86.4	86	2	46-132/25
100-02-7	4-Nitrophenol	ND		100	88.8	89	100	78.2	78	13	21-167/27
87-86-5	Pentachlorophenol	ND		100	70.4	70	100	69.0	69	2	36-158/29
108-95-2	Phenol	ND		100	59.3	59	100	49.4	49	18	24-105/25
95-95-4	2,4,5-Trichlorophenol	ND		100	91.7	92	100	94.3	94	3	56-133/25
88-06-2	2,4,6-Trichlorophenol	ND		100	85.7	86	100	86.9	87	1	52-136/23
83-32-9	Acenaphthene	ND		100	89.3	89	100	90.6	91	1	40-138/27
208-96-8	Acenaphthylene	ND		100	77.6	78	100	79.0	79	2	36-108/27
120-12-7	Anthracene	ND		100	90.8	91	100	88.4	88	3	47-131/28
56-55-3	Benzo(a)anthracene	ND		100	91.8	92	100	91.4	91	0	40-131/30
50-32-8	Benzo(a)pyrene	ND		100	91.9	92	100	89.0	89	3	37-138/32
205-99-2	Benzo(b)fluoranthene	ND		100	92.1	92	100	88.3	88	4	36-140/33
191-24-2	Benzo(g,h,i)perylene	ND		100	85.0	85	100	80.8	81	5	32-142/33
207-08-9	Benzo(k)fluoranthene	ND		100	93.1	93	100	92.3	92	1	38-132/33
101-55-3	4-Bromophenyl phenyl ether	ND		100	92.8	93	100	91.6	92	1	48-138/27
85-68-7	Butyl benzyl phthalate	ND		100	99.5	100	100	98.4	98	1	33-161/32
91-58-7	2-Chloronaphthalene	ND		100	84.9	85	100	85.8	86	1	38-127/27
106-47-8	4-Chloroaniline	ND		100	51.1	51	100	29.4	29	54* [a]	10-110/50
86-74-8	Carbazole	ND		100	88.3	88	100	85.6	86	3	51-126/29
218-01-9	Chrysene	ND		100	98.3	98	100	94.9	95	4	42-136/30
111-91-1	bis(2-Chloroethoxy)methane	ND		100	94.5	95	100	93.5	94	1	39-137/29
111-44-4	bis(2-Chloroethyl)ether	ND		100	84.9	85	100	84.5	85	0	33-141/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	82.1	82	100	80.5	81	2	30-135/29
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	86.2	86	100	87.8	88	2	44-140/29
95-50-1	1,2-Dichlorobenzene	ND		100	79.5	80	100	78.4	78	1	18-132/29
541-73-1	1,3-Dichlorobenzene	ND		100	72.4	72	100	73.6	74	2	21-119/30
106-46-7	1,4-Dichlorobenzene	ND		100	74.0	74	100	74.9	75	1	20-123/31
121-14-2	2,4-Dinitrotoluene	ND		100	90.9	91	100	93.7	94	3	45-148/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-MS	M113725.D	1	04/27/15	AD	04/24/15	OP83394	EM4722
OP83394-MSD	M113726.D	1	04/27/15	AD	04/24/15	OP83394	EM4722
JB93082-1	M113720.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

7.3.1

7

CAS No.	Compound	JB93082-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	ND		100	90.4	90	100	94.0	94	4	48-146/30
91-94-1	3,3'-Dichlorobenzidine	ND		200	106	53	200	71.0	36	40	10-126/44
53-70-3	Dibenzo(a,h)anthracene	ND		100	90.3	90	100	87.6	88	3	33-144/34
132-64-9	Dibenzofuran	ND		100	88.6	89	100	90.2	90	2	45-125/28
84-74-2	Di-n-butyl phthalate	ND		100	101	101	100	101	101	0	41-159/32
117-84-0	Di-n-octyl phthalate	ND		100	107	107	100	102	102	5	39-161/31
84-66-2	Diethyl phthalate	ND		100	96.6	97	100	99.1	99	3	27-153/32
131-11-3	Dimethyl phthalate	ND		100	92.1	92	100	93.4	93	1	12-157/38
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	102	102	100	102	102	0	39-160/34
206-44-0	Fluoranthene	ND		100	89.1	89	100	88.9	89	0	44-137/31
86-73-7	Fluorene	ND		100	90.3	90	100	89.8	90	1	43-140/28
118-74-1	Hexachlorobenzene	ND		100	90.4	90	100	89.9	90	1	39-137/28
87-68-3	Hexachlorobutadiene	ND		100	79.9	80	100	79.3	79	1	17-132/34
77-47-4	Hexachlorocyclopentadiene	ND		200	155	78	200	156	78	1	10-132/38
67-72-1	Hexachloroethane	ND		100	75.1	75	100	76.9	77	2	19-126/33
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	88.6	89	100	82.4	82	7	31-143/34
78-59-1	Isophorone	ND		100	98.9	99	100	99.9	100	1	34-139/29
91-57-6	2-Methylnaphthalene	ND		100	89.9	90	100	90.4	90	1	39-118/27
88-74-4	2-Nitroaniline	ND		100	102	102	100	106	106	4	34-158/34
99-09-2	3-Nitroaniline	ND		100	67.1	67	100	44.8	45	40	12-117/42
100-01-6	4-Nitroaniline	ND		100	83.3	83	100	83.1	83	0	33-128/34
91-20-3	Naphthalene	ND		100	82.6	83	100	82.1	82	1	23-133/30
98-95-3	Nitrobenzene	ND		100	95.2	95	100	96.8	97	2	29-146/28
621-64-7	N-Nitroso-di-n-propylamine	ND		100	88.5	89	100	87.8	88	1	33-147/29
86-30-6	N-Nitrosodiphenylamine	ND		100	94.6	95	100	92.6	93	2	42-137/28
85-01-8	Phenanthrene	ND		100	89.0	89	100	87.9	88	1	44-131/28
129-00-0	Pyrene	ND		100	92.2	92	100	91.8	92	0	43-133/30
120-82-1	1,2,4-Trichlorobenzene	ND		100	79.4	79	100	80.8	81	2	23-129/29

CAS No.	Surrogate Recoveries	MS	MSD	JB93082-1	Limits
367-12-4	2-Fluorophenol	73%	67%	47%	12-110%
4165-62-2	Phenol-d5	61%	51%	33%	10-110%
118-79-6	2,4,6-Tribromophenol	86%	86%	72%	42-154%
4165-60-0	Nitrobenzene-d5	96%	96%	95%	29-139%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83394-MS	M113725.D	1	04/27/15	AD	04/24/15	OP83394	EM4722
OP83394-MSD	M113726.D	1	04/27/15	AD	04/24/15	OP83394	EM4722
JB93082-1	M113720.D	1	04/26/15	AD	04/24/15	OP83394	EM4722

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93082-1, JB93082-2, JB93082-3, JB93082-4, JB93082-5

CAS No.	Surrogate Recoveries	MS	MSD	JB93082-1	Limits
321-60-8	2-Fluorobiphenyl	91%	92%	91%	33-129%
1718-51-0	Terphenyl-d14	97%	92%	102%	10-140%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JB93082
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB93082-1	M113720.D	47	33	72	95	91	102
JB93082-2	M113721.D	46	32	76	93	91	96
JB93082-3	M113722.D	48	32	79	87	86	94
JB93082-4	M113723.D	49	32	80	91	89	96
JB93082-5	M113724.D	49	32	84	89	87	101
OP83394-BS1	M113714.D	52	33	91	94	91	100
OP83394-MB1	M113713.D	54	35	84	88	87	96
OP83394-MS	M113725.D	73	61	86	96	91	97
OP83394-MSD	M113726.D	67	51	86	96	92	92

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	12-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	42-154%
S4 = Nitrobenzene-d5	29-139%
S5 = 2-Fluorobiphenyl	33-129%
S6 = Terphenyl-d14	10-140%

New Jersey
ACCUTEST LABORATORIES

05/06/15

Technical Report for

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Accutest Job Number: JB93065

Sampling Date: 04/22/15

Report to:

Eagon & Associates, Inc.
100 West Old Wilson Bridge Road Suite 115
Worthington, OH 43085
MGibson@eagon.cc; A.Graham@eagon.cc

ATTN: Michael T. Gibson

Total number of pages in report: **76**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy T. Cole
Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **6**
Section 4: Sample Results **8**
4.1: JB93065-1: SD-042215-EA-024 9
4.2: JB93065-2: SD-042215-EA-025 14
4.3: JB93065-3: SD-042215-EA-026 19
4.4: JB93065-4: SD-042215-EA-027 24
4.5: JB93065-5: RB-042215-EA-028 29
4.6: JB93065-6: TRIP BLANK 34
Section 5: Misc. Forms **36**
5.1: Chain of Custody 37
5.2: Sample Tracking Chronicle 40
Section 6: GC/MS Volatiles - QC Data Summaries **41**
6.1: Method Blank Summary 42
6.2: Blank Spike Summary 46
6.3: Matrix Spike/Matrix Spike Duplicate Summary 50
6.4: Surrogate Recovery Summaries 54
Section 7: GC/MS Semi-volatiles - QC Data Summaries **56**
7.1: Method Blank Summary 57
7.2: Blank Spike Summary 63
7.3: Matrix Spike/Matrix Spike Duplicate Summary 69
7.4: Surrogate Recovery Summaries 75

Accutest Laboratories

Sample Summary

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Job No: JB93065

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB93065-1	04/22/15	10:15	SG	04/23/15	SO	Sediment	SD-042215-EA-024
JB93065-2	04/22/15	10:15	SG	04/23/15	SO	Sediment	SD-042215-EA-025
JB93065-3	04/22/15	10:15	SG	04/23/15	SO	Sediment	SD-042215-EA-026
JB93065-4	04/22/15	10:15	SG	04/23/15	SO	Sediment	SD-042215-EA-027
JB93065-5	04/22/15	09:15	SG	04/23/15	AQ	Equipment Blank	RB-042215-EA-028
JB93065-6	04/22/15	10:15	SG	04/23/15	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Eagon & Associates, Inc.	**Job No**	JB93065
Site:	Summit National Superfund Site, Deerfield OH	**Report Date**	5/6/2015 8:37:28 AM

On 04/23/2015, 5 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a cooler temperatures (Initial/Adjusted): #1: (3.3/1.5) C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB93065 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** V4V695

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93001-1MS, JB93001-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,2-Dichloroethane are outside control limits for sample JB93001-1MSD. Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** VI8181

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB93002-1MS, JB93002-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloroethene (total), 1,2-Dichloropropane, 2-Butanone (MEK), Benzene, Bromodichloromethane, Bromoform, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Xylene (total) are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloroethene (total), 1,2-Dichloropropane, 2-Butanone (MEK), Benzene, Bromodichloromethane, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Xylene (total), Bromoform are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for Vinyl chloride are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Bromoform are outside control limits for sample JB93002-1MSD. Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ	**Batch ID:** OP83381

- All samples were extracted within the recommended method holding time.
- Sample(s) JB93040-1MS, JB93040-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO	**Batch ID:** OP83426

- All samples were extracted within the recommended method holding time.
- Sample(s) JB93041-23MS, JB93041-23MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 2,4,5-Trichlorophenol are outside in house control limits for sample OP83426-MSD.

Wet Chemistry By Method SM2540 G-97

Matrix: SO	**Batch ID:** GN24217

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB93065
Account: Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH
Collected: 04/22/15

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB93065-1	**SD-042215-EA-024**					
Di-n-butyl phthalate		53.2 J	100	11	ug/kg	SW846 8270D
2-Methylnaphthalene		48.6 J	100	29	ug/kg	SW846 8270D
Naphthalene		30.6 J	52	14	ug/kg	SW846 8270D
Phenanthrene		34.6 J	52	24	ug/kg	SW846 8270D
JB93065-2	**SD-042215-EA-025**					
Benzo(b)fluoranthene		22.0 J	44	15	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		30.4 J	44	16	ug/kg	SW846 8270D
Chrysene		24.9 J	44	15	ug/kg	SW846 8270D
Dibenzofuran		29.4 J	88	13	ug/kg	SW846 8270D
Di-n-butyl phthalate		79.2 J	88	9.8	ug/kg	SW846 8270D
Fluoranthene		27.5 J	44	19	ug/kg	SW846 8270D
2-Methylnaphthalene		131	88	25	ug/kg	SW846 8270D
Naphthalene		75.4	44	12	ug/kg	SW846 8270D
Phenanthrene		98.3	44	20	ug/kg	SW846 8270D
Pyrene		36.0 J	44	17	ug/kg	SW846 8270D
JB93065-3	**SD-042215-EA-026**					
Benzo(a)anthracene		24.1 J	46	15	ug/kg	SW846 8270D
Benzo(a)pyrene		19.2 J	46	14	ug/kg	SW846 8270D
Benzo(b)fluoranthene		26.7 J	46	15	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		28.2 J	46	17	ug/kg	SW846 8270D
Chrysene		24.5 J	46	15	ug/kg	SW846 8270D
Di-n-butyl phthalate		99.9	91	10	ug/kg	SW846 8270D
Fluoranthene		28.5 J	46	20	ug/kg	SW846 8270D
2-Methylnaphthalene		68.2 J	91	25	ug/kg	SW846 8270D
Naphthalene		36.9 J	46	12	ug/kg	SW846 8270D
Phenanthrene		56.0	46	21	ug/kg	SW846 8270D
Pyrene		32.6 J	46	17	ug/kg	SW846 8270D
JB93065-4	**SD-042215-EA-027**					
Di-n-butyl phthalate		210	100	11	ug/kg	SW846 8270D
2-Methylnaphthalene		58.0 J	100	28	ug/kg	SW846 8270D
Naphthalene		33.1 J	51	14	ug/kg	SW846 8270D
Phenanthrene		48.8 J	51	23	ug/kg	SW846 8270D
Pyrene		20.9 J	51	19	ug/kg	SW846 8270D
JB93065-5	**RB-042215-EA-028**					

No hits reported in this sample.

Summary of Hits

Job Number: JB93065
Account: Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH
Collected: 04/22/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB93065-6	TRIP BLANK					

No hits reported in this sample.

New Jersey
ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD-042215-EA-024		
Lab Sample ID:	JB93065-1	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8260C SW846 5035	**Percent Solids:**	63.9
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203547.D	1	04/25/15	SJM	04/23/15 17:00	n/a	VI8181
Run #2							

	Initial Weight
Run #1	5.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	3.0	ug/kg	
71-43-2	Benzene	ND	0.66	0.18	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.21	ug/kg	
75-25-2	Bromoform	ND	6.6	0.31	ug/kg	
74-83-9	Bromomethane	ND	6.6	0.48	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	2.7	0.30	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	0.31	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.21	ug/kg	
75-00-3	Chloroethane	ND	6.6	0.64	ug/kg	
67-66-3	Chloroform	ND	2.7	0.20	ug/kg	
74-87-3	Chloromethane	ND	6.6	0.35	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.79	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.79	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	1.3	0.79	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.22	ug/kg	
591-78-6	2-Hexanone	ND	6.6	1.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.6	0.61	ug/kg	
75-09-2	Methylene chloride	ND	6.6	1.3	ug/kg	
100-42-5	Styrene	ND	2.7	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.23	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.40	ug/kg	
108-88-3	Toluene	ND	1.3	0.28	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.19	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-024		
Lab Sample ID:	JB93065-1	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8260C SW846 5035	**Percent Solids:**	63.9
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.3	0.19	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.26	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-122%
17060-07-0	1,2-Dichloroethane-D4	93%		68-124%
2037-26-5	Toluene-D8	92%		77-125%
460-00-4	4-Bromofluorobenzene	94%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-024		
Lab Sample ID:	JB93065-1	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	63.9
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P15345.D	1	05/01/15	SD	04/27/15	OP83426	E6P688
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	100	52	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	260	52	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	260	83	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	260	87	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	260	63	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	260	63	ug/kg	
95-48-7	2-Methylphenol	ND	100	59	ug/kg	
	3&4-Methylphenol	ND	100	66	ug/kg	
88-75-5	2-Nitrophenol	ND	260	55	ug/kg	
100-02-7	4-Nitrophenol	ND	520	87	ug/kg	
87-86-5	Pentachlorophenol	ND	260	88	ug/kg	
108-95-2	Phenol	ND	100	54	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	260	60	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	260	49	ug/kg	
83-32-9	Acenaphthene	ND	52	15	ug/kg	
208-96-8	Acenaphthylene	ND	52	17	ug/kg	
120-12-7	Anthracene	ND	52	18	ug/kg	
56-55-3	Benzo(a)anthracene	ND	52	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	52	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	52	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	52	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	52	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	100	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	100	30	ug/kg	
91-58-7	2-Chloronaphthalene	ND	100	16	ug/kg	
106-47-8	4-Chloroaniline	ND	260	17	ug/kg	
86-74-8	Carbazole	ND	100	24	ug/kg	
218-01-9	Chrysene	ND	52	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	100	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	100	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	100	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	100	16	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-024		
Lab Sample ID:	JB93065-1	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	63.9
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	100	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	100	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	100	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	52	23	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	52	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	100	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	52	18	ug/kg	
132-64-9	Dibenzofuran	ND	100	15	ug/kg	
84-74-2	Di-n-butyl phthalate	53.2	100	11	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	100	25	ug/kg	
84-66-2	Diethyl phthalate	ND	100	18	ug/kg	
131-11-3	Dimethyl phthalate	ND	100	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	100	46	ug/kg	
206-44-0	Fluoranthene	ND	52	23	ug/kg	
86-73-7	Fluorene	ND	52	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	100	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	52	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	520	53	ug/kg	
67-72-1	Hexachloroethane	ND	260	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	52	18	ug/kg	
78-59-1	Isophorone	ND	100	14	ug/kg	
91-57-6	2-Methylnaphthalene	48.6	100	29	ug/kg	J
88-74-4	2-Nitroaniline	ND	260	23	ug/kg	
99-09-2	3-Nitroaniline	ND	260	21	ug/kg	
100-01-6	4-Nitroaniline	ND	260	20	ug/kg	
91-20-3	Naphthalene	30.6	52	14	ug/kg	J
98-95-3	Nitrobenzene	ND	100	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	100	13	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	31	ug/kg	
85-01-8	Phenanthrene	34.6	52	24	ug/kg	J
129-00-0	Pyrene	ND	52	20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	100	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		22-121%
4165-62-2	Phenol-d5	70%		27-119%
118-79-6	2,4,6-Tribromophenol	77%		17-158%
4165-60-0	Nitrobenzene-d5	74%		33-127%
321-60-8	2-Fluorobiphenyl	77%		41-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-024		
Lab Sample ID:	JB93065-1	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	63.9
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		44-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-025		
Lab Sample ID:	JB93065-2	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8260C SW846 5035	**Percent Solids:**	72.5
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203548.D	1	04/25/15	SJM	04/23/15 17:00	n/a	VI8181
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	3.0	ug/kg	
71-43-2	Benzene	ND	0.68	0.18	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.21	ug/kg	
75-25-2	Bromoform	ND	6.8	0.32	ug/kg	
74-83-9	Bromomethane	ND	6.8	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	2.7	0.31	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	0.31	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.21	ug/kg	
75-00-3	Chloroethane	ND	6.8	0.65	ug/kg	
67-66-3	Chloroform	ND	2.7	0.20	ug/kg	
74-87-3	Chloromethane	ND	6.8	0.35	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	0.80	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.80	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	1.4	0.80	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.22	ug/kg	
591-78-6	2-Hexanone	ND	6.8	1.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.8	0.62	ug/kg	
75-09-2	Methylene chloride	ND	6.8	1.3	ug/kg	
100-42-5	Styrene	ND	2.7	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.41	ug/kg	
108-88-3	Toluene	ND	1.4	0.28	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.20	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-025		
Lab Sample ID:	JB93065-2	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8260C SW846 5035	**Percent Solids:**	72.5
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.4	0.20	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.27	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-122%
17060-07-0	1,2-Dichloroethane-D4	97%		68-124%
2037-26-5	Toluene-D8	96%		77-125%
460-00-4	4-Bromofluorobenzene	98%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-025		
Lab Sample ID:	JB93065-2	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	72.5
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P15346.D	1	05/01/15	SD	04/27/15	OP83426	E6P688
Run #2							

	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	88	44	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	44	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	71	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	74	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	220	54	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	220	54	ug/kg	
95-48-7	2-Methylphenol	ND	88	50	ug/kg	
	3&4-Methylphenol	ND	88	56	ug/kg	
88-75-5	2-Nitrophenol	ND	220	47	ug/kg	
100-02-7	4-Nitrophenol	ND	440	75	ug/kg	
87-86-5	Pentachlorophenol	ND	220	76	ug/kg	
108-95-2	Phenol	ND	88	46	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	51	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	42	ug/kg	
83-32-9	Acenaphthene	ND	44	13	ug/kg	
208-96-8	Acenaphthylene	ND	44	14	ug/kg	
120-12-7	Anthracene	ND	44	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	44	14	ug/kg	
50-32-8	Benzo(a)pyrene	ND	44	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	22.0	44	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	30.4	44	16	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	44	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	88	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	88	26	ug/kg	
91-58-7	2-Chloronaphthalene	ND	88	14	ug/kg	
106-47-8	4-Chloroaniline	ND	220	14	ug/kg	
86-74-8	Carbazole	ND	88	20	ug/kg	
218-01-9	Chrysene	24.9	44	15	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	88	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	88	13	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	88	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	88	13	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-025		
Lab Sample ID:	JB93065-2	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	72.5
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	88	13	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	88	12	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	88	9.9	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	44	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	44	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	88	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	44	15	ug/kg	
132-64-9	Dibenzofuran	29.4	88	13	ug/kg	J
84-74-2	Di-n-butyl phthalate	79.2	88	9.8	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	88	22	ug/kg	
84-66-2	Diethyl phthalate	ND	88	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	88	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	88	39	ug/kg	
206-44-0	Fluoranthene	27.5	44	19	ug/kg	J
86-73-7	Fluorene	ND	44	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	88	14	ug/kg	
87-68-3	Hexachlorobutadiene	ND	44	12	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	440	45	ug/kg	
67-72-1	Hexachloroethane	ND	220	12	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	44	15	ug/kg	
78-59-1	Isophorone	ND	88	12	ug/kg	
91-57-6	2-Methylnaphthalene	131	88	25	ug/kg	
88-74-4	2-Nitroaniline	ND	220	19	ug/kg	
99-09-2	3-Nitroaniline	ND	220	18	ug/kg	
100-01-6	4-Nitroaniline	ND	220	17	ug/kg	
91-20-3	Naphthalene	75.4	44	12	ug/kg	
98-95-3	Nitrobenzene	ND	88	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	88	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	26	ug/kg	
85-01-8	Phenanthrene	98.3	44	20	ug/kg	
129-00-0	Pyrene	36.0	44	17	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	88	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		22-121%
4165-62-2	Phenol-d5	70%		27-119%
118-79-6	2,4,6-Tribromophenol	84%		17-158%
4165-60-0	Nitrobenzene-d5	78%		33-127%
321-60-8	2-Fluorobiphenyl	80%		41-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-025		
Lab Sample ID:	JB93065-2	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	72.5
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		44-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-026		
Lab Sample ID:	JB93065-3	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8260C SW846 5035	**Percent Solids:**	68.4
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203549.D	1	04/25/15	SJM	04/23/15 17:00	n/a	VI8181
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	3.0	ug/kg	
71-43-2	Benzene	ND	0.66	0.18	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.21	ug/kg	
75-25-2	Bromoform	ND	6.6	0.31	ug/kg	
74-83-9	Bromomethane	ND	6.6	0.48	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	2.7	0.30	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	0.31	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.21	ug/kg	
75-00-3	Chloroethane	ND	6.6	0.64	ug/kg	
67-66-3	Chloroform	ND	2.7	0.20	ug/kg	
74-87-3	Chloromethane	ND	6.6	0.35	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.79	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.79	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	1.3	0.79	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.22	ug/kg	
591-78-6	2-Hexanone	ND	6.6	1.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.6	0.61	ug/kg	
75-09-2	Methylene chloride	ND	6.6	1.3	ug/kg	
100-42-5	Styrene	ND	2.7	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.23	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.40	ug/kg	
108-88-3	Toluene	ND	1.3	0.28	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.20	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-026		
Lab Sample ID:	JB93065-3	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8260C SW846 5035	**Percent Solids:**	68.4
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.3	0.20	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.26	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-122%
17060-07-0	1,2-Dichloroethane-D4	97%		68-124%
2037-26-5	Toluene-D8	92%		77-125%
460-00-4	4-Bromofluorobenzene	93%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-026		
Lab Sample ID:	JB93065-3	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	68.4
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P15347.D	1	05/01/15	SD	04/27/15	OP83426	E6P688
Run #2							

	Initial Weight	Final Volume
Run #1	32.1 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	91	46	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	230	46	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	230	73	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	230	77	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	230	56	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	230	56	ug/kg	
95-48-7	2-Methylphenol	ND	91	52	ug/kg	
	3&4-Methylphenol	ND	91	58	ug/kg	
88-75-5	2-Nitrophenol	ND	230	48	ug/kg	
100-02-7	4-Nitrophenol	ND	460	77	ug/kg	
87-86-5	Pentachlorophenol	ND	230	78	ug/kg	
108-95-2	Phenol	ND	91	48	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	230	53	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	230	43	ug/kg	
83-32-9	Acenaphthene	ND	46	13	ug/kg	
208-96-8	Acenaphthylene	ND	46	15	ug/kg	
120-12-7	Anthracene	ND	46	16	ug/kg	
56-55-3	Benzo(a)anthracene	24.1	46	15	ug/kg	J
50-32-8	Benzo(a)pyrene	19.2	46	14	ug/kg	J
205-99-2	Benzo(b)fluoranthene	26.7	46	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	28.2	46	17	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	46	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	91	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	91	26	ug/kg	
91-58-7	2-Chloronaphthalene	ND	91	14	ug/kg	
106-47-8	4-Chloroaniline	ND	230	15	ug/kg	
86-74-8	Carbazole	ND	91	21	ug/kg	
218-01-9	Chrysene	24.5	46	15	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	91	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	91	14	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	91	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	91	14	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-026		
Lab Sample ID:	JB93065-3	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	68.4
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	91	13	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	91	12	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	91	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	46	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	46	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	91	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	46	16	ug/kg	
132-64-9	Dibenzofuran	ND	91	14	ug/kg	
84-74-2	Di-n-butyl phthalate	99.9	91	10	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	91	22	ug/kg	
84-66-2	Diethyl phthalate	ND	91	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	91	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	91	40	ug/kg	
206-44-0	Fluoranthene	28.5	46	20	ug/kg	J
86-73-7	Fluorene	ND	46	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	91	15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	46	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	460	46	ug/kg	
67-72-1	Hexachloroethane	ND	230	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	46	16	ug/kg	
78-59-1	Isophorone	ND	91	12	ug/kg	
91-57-6	2-Methylnaphthalene	68.2	91	25	ug/kg	J
88-74-4	2-Nitroaniline	ND	230	20	ug/kg	
99-09-2	3-Nitroaniline	ND	230	18	ug/kg	
100-01-6	4-Nitroaniline	ND	230	18	ug/kg	
91-20-3	Naphthalene	36.9	46	12	ug/kg	J
98-95-3	Nitrobenzene	ND	91	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	91	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	230	27	ug/kg	
85-01-8	Phenanthrene	56.0	46	21	ug/kg	
129-00-0	Pyrene	32.6	46	17	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	91	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		22-121%
4165-62-2	Phenol-d5	64%		27-119%
118-79-6	2,4,6-Tribromophenol	79%		17-158%
4165-60-0	Nitrobenzene-d5	66%		33-127%
321-60-8	2-Fluorobiphenyl	69%		41-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-026		
Lab Sample ID:	JB93065-3	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	68.4
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		44-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-027		
Lab Sample ID:	JB93065-4	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8260C SW846 5035	**Percent Solids:**	64.6
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203550.D	1	04/25/15	SJM	04/23/15 17:00	n/a	VI8181
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	15	3.3	ug/kg	
71-43-2	Benzene	ND	0.73	0.19	ug/kg	
75-27-4	Bromodichloromethane	ND	2.9	0.23	ug/kg	
75-25-2	Bromoform	ND	7.3	0.34	ug/kg	
74-83-9	Bromomethane	ND	7.3	0.53	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.9	0.33	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.9	0.34	ug/kg	
108-90-7	Chlorobenzene	ND	2.9	0.23	ug/kg	
75-00-3	Chloroethane	ND	7.3	0.70	ug/kg	
67-66-3	Chloroform	ND	2.9	0.22	ug/kg	
74-87-3	Chloromethane	ND	7.3	0.38	ug/kg	
124-48-1	Dibromochloromethane	ND	2.9	0.30	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.5	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.5	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.5	0.86	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.87	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	1.5	0.87	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.9	0.35	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.9	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.9	0.26	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	0.24	ug/kg	
591-78-6	2-Hexanone	ND	7.3	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.3	0.67	ug/kg	
75-09-2	Methylene chloride	ND	7.3	1.4	ug/kg	
100-42-5	Styrene	ND	2.9	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.9	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	2.9	0.44	ug/kg	
108-88-3	Toluene	ND	1.5	0.30	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.9	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.9	0.21	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-027		
Lab Sample ID:	JB93065-4	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8260C SW846 5035	**Percent Solids:**	64.6
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.5	0.21	ug/kg	
75-01-4	Vinyl chloride	ND	2.9	0.29	ug/kg	
1330-20-7	Xylene (total)	ND	1.5	0.40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-122%
17060-07-0	1,2-Dichloroethane-D4	95%		68-124%
2037-26-5	Toluene-D8	92%		77-125%
460-00-4	4-Bromofluorobenzene	92%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-027		
Lab Sample ID:	JB93065-4	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	64.6
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P15348.D	1	05/01/15	SD	04/27/15	OP83426	E6P688
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	100	51	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	250	51	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	250	81	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	250	85	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	250	62	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	250	62	ug/kg	
95-48-7	2-Methylphenol	ND	100	58	ug/kg	
	3&4-Methylphenol	ND	100	64	ug/kg	
88-75-5	2-Nitrophenol	ND	250	54	ug/kg	
100-02-7	4-Nitrophenol	ND	510	85	ug/kg	
87-86-5	Pentachlorophenol	ND	250	87	ug/kg	
108-95-2	Phenol	ND	100	53	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	250	59	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	250	48	ug/kg	
83-32-9	Acenaphthene	ND	51	15	ug/kg	
208-96-8	Acenaphthylene	ND	51	16	ug/kg	
120-12-7	Anthracene	ND	51	18	ug/kg	
56-55-3	Benzo(a)anthracene	ND	51	16	ug/kg	
50-32-8	Benzo(a)pyrene	ND	51	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	51	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	51	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	51	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	100	18	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	100	29	ug/kg	
91-58-7	2-Chloronaphthalene	ND	100	16	ug/kg	
106-47-8	4-Chloroaniline	ND	250	16	ug/kg	
86-74-8	Carbazole	ND	100	23	ug/kg	
218-01-9	Chrysene	ND	51	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	100	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	100	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	100	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	100	15	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-027		
Lab Sample ID:	JB93065-4	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	64.6
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	100	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	100	14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	100	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	51	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	51	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	100	13	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	51	17	ug/kg	
132-64-9	Dibenzofuran	ND	100	15	ug/kg	
84-74-2	Di-n-butyl phthalate	210	100	11	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	100	25	ug/kg	
84-66-2	Diethyl phthalate	ND	100	17	ug/kg	
131-11-3	Dimethyl phthalate	ND	100	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	100	45	ug/kg	
206-44-0	Fluoranthene	ND	51	22	ug/kg	
86-73-7	Fluorene	ND	51	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	100	16	ug/kg	
87-68-3	Hexachlorobutadiene	ND	51	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	510	52	ug/kg	
67-72-1	Hexachloroethane	ND	250	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	51	18	ug/kg	
78-59-1	Isophorone	ND	100	14	ug/kg	
91-57-6	2-Methylnaphthalene	58.0	100	28	ug/kg	J
88-74-4	2-Nitroaniline	ND	250	22	ug/kg	
99-09-2	3-Nitroaniline	ND	250	20	ug/kg	
100-01-6	4-Nitroaniline	ND	250	20	ug/kg	
91-20-3	Naphthalene	33.1	51	14	ug/kg	J
98-95-3	Nitrobenzene	ND	100	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	100	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	30	ug/kg	
85-01-8	Phenanthrene	48.8	51	23	ug/kg	J
129-00-0	Pyrene	20.9	51	19	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	100	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		22-121%
4165-62-2	Phenol-d5	64%		27-119%
118-79-6	2,4,6-Tribromophenol	77%		17-158%
4165-60-0	Nitrobenzene-d5	70%		33-127%
321-60-8	2-Fluorobiphenyl	72%		41-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-042215-EA-027		
Lab Sample ID:	JB93065-4	**Date Sampled:**	04/22/15
Matrix:	SO - Sediment	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3546	**Percent Solids:**	64.6
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%		44-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-042215-EA-028		
Lab Sample ID:	JB93065-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V17038.D	1	04/26/15	JM	n/a	n/a	V4V695
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-042215-EA-028		
Lab Sample ID:	JB93065-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-120%
17060-07-0	1,2-Dichloroethane-D4	102%		73-122%
2037-26-5	Toluene-D8	113%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-042215-EA-028		
Lab Sample ID:	JB93065-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P94880.D	1	04/27/15	AD	04/24/15	OP83381	EP4098
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-042215-EA-028		
Lab Sample ID:	JB93065-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.55	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		12-110%
4165-62-2	Phenol-d5	28%		10-110%
118-79-6	2,4,6-Tribromophenol	92%		42-154%
4165-60-0	Nitrobenzene-d5	86%		29-139%
321-60-8	2-Fluorobiphenyl	85%		33-129%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RB-042215-EA-028		
Lab Sample ID:	JB93065-5	**Date Sampled:**	04/22/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/23/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	86%		10-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB93065-6	**Date Sampled:**	04/22/15
Matrix:	SO - Trip Blank Soil	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I203551.D	1	04/25/15	SJM	n/a	n/a	VI8181
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
71-43-2	Benzene	ND	0.50	0.13	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.48	ug/kg	
67-66-3	Chloroform	ND	2.0	0.15	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.26	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.78	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.59	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.18	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.16	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.98	ug/kg	
100-42-5	Styrene	ND	2.0	0.18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.30	ug/kg	
108-88-3	Toluene	ND	1.0	0.21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.15	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB93065-6	**Date Sampled:**	04/22/15
Matrix:	SO - Trip Blank Soil	**Date Received:**	04/23/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Summit National Superfund Site, Deerfield OH		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.15	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-122%
17060-07-0	1,2-Dichloroethane-D4	104%		68-124%
2037-26-5	Toluene-D8	93%		77-125%
460-00-4	4-Bromofluorobenzene	96%		72-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

ACCUTEST LABORATORIES

SLL SRD SSTB

CHAIN OF CUSTODY

PAGE 1 OF 1

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # 6250 6352 8711
Bottle Order Control #
Accutest Quote #
Accutest Job # JB93065

Client / Reporting Information

Company Name: Eagon & Associates, Inc.
Street Address: 100 Old Wilson Bridge Rd Ste 115
City State Zip: Worthington, Ohio 43085
Project Contact E-mail: Mike Gibson (mgibson@eagon.cc)
Phone # Fax #: (614) 888-5760 (614) 888-5763
Sampler(s) Name(s) Phone #: Andy Graham (614) 271-4582

Project Information

Project Name: Summit National Superfund Site - 2015 Annual Monitoring Event
Street: 8174 Waterloo Road (SR 224)
City State: Deerfield, Ohio 44111
Project #: --
Client Purchase Order #: --
Project Manager: Matt Cordova

Billing Information (if different from Report to)

Company Name: Summit National Facility Trust (SNFT)
Street Address: See File
City State Zip: See File
Attention: SNFT

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260TCL	AB8270TCL	LAB USE ONLY
1	SD-042215-EA-024		4/22/15	1015	AG	Sed	4					X			X	X	X	
2	SD-042215-EA-025				AG	Sed	4					X			X	X	X	
3	SD-042215-EA-026				AG	Sed	4					X			X	X	X	D43
4	SD-042215-EA-027				AG	Sed	4					X			X	X	X	14M6
5	RB-042215-EA-028		4/22/15	0915	AG	O	4	X				X				X	X	40129
6	TRIP BLANK		—	—	—	O	2					X				X		E108
																		U834

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

Rec'd 3 Empres — 4/23/15

D.I. slurry voc vials frozen storage
Date: 4/23/15 Time: 1145 Initials: [illegible]

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ other

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT 3A [illegible]

LABEL VERIFICATION [illegible]

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Andrew D. Graham [signature]	4/22/15 @ 1145	1 FEDEX	2 FEDEX	4/23/15 1000	2 [signature]
3		3	4		4
5		5	Custody Seal # 722 ☑ Intact ☐ Not Intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 3.3°C IP

JB93065: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB93065 **Client:** **Project:**

Date / Time Received: 4/23/2015 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3.3/1.5); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

5.1

5

JB93065: Chain of Custody
Page 2 of 3

JB93065

SAMPLE #	MEOH VIAL	D.I. VIAL	D.I. VIAL
1			
2			
3			
4			
5		731	732
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			

(SSTB)

5.1 5

JB93065: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Eagon & Associates, Inc.

Summit National Superfund Site, Deerfield OH

Job No: JB93065

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB93065-1 Collected: 22-APR-15 10:15 By: SG Received: 23-APR-15 By: TH SD-042215-EA-024						
JB93065-1	SW846 8260C	25-APR-15 02:10	SJM			V8260TCL
JB93065-1	SM2540 G-97	27-APR-15 16:00	KP			%SOL
JB93065-1	SW846 8270D	01-MAY-15 04:41	SD	27-APR-15	AQ	AB8270TCL
JB93065-2 Collected: 22-APR-15 10:15 By: SG Received: 23-APR-15 By: TH SD-042215-EA-025						
JB93065-2	SW846 8260C	25-APR-15 02:39	SJM			V8260TCL
JB93065-2	SM2540 G-97	27-APR-15 16:00	KP			%SOL
JB93065-2	SW846 8270D	01-MAY-15 05:08	SD	27-APR-15	AQ	AB8270TCL
JB93065-3 Collected: 22-APR-15 10:15 By: SG Received: 23-APR-15 By: TH SD-042215-EA-026						
JB93065-3	SW846 8260C	25-APR-15 03:08	SJM			V8260TCL
JB93065-3	SM2540 G-97	27-APR-15 16:00	KP			%SOL
JB93065-3	SW846 8270D	01-MAY-15 05:34	SD	27-APR-15	AQ	AB8270TCL
JB93065-4 Collected: 22-APR-15 10:15 By: SG Received: 23-APR-15 By: TH SD-042215-EA-027						
JB93065-4	SW846 8260C	25-APR-15 03:36	SJM			V8260TCL
JB93065-4	SM2540 G-97	27-APR-15 16:00	KP			%SOL
JB93065-4	SW846 8270D	01-MAY-15 06:01	SD	27-APR-15	AQ	AB8270TCL
JB93065-5 Collected: 22-APR-15 09:15 By: SG Received: 23-APR-15 By: TH RB-042215-EA-028						
JB93065-5	SW846 8260C	26-APR-15 00:24	JM			V8260TCL
JB93065-5	SW846 8270D	27-APR-15 03:21	AD	24-APR-15	NG	AB8270TCL
JB93065-6 Collected: 22-APR-15 10:15 By: SG Received: 23-APR-15 By: TH TRIP BLANK						
JB93065-6	SW846 8260C	25-APR-15 04:05	SJM			V8260TCL

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8181-MB1	I203541.D	1	04/24/15	SJM	n/a	n/a	VI8181

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-1, JB93065-2, JB93065-3, JB93065-4, JB93065-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
71-43-2	Benzene	ND	0.50	0.13	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.0	0.24	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.23	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.48	ug/kg	
67-66-3	Chloroform	ND	2.0	0.15	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.26	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.21	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.78	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.59	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.24	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.18	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.16	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.46	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.98	ug/kg	
100-42-5	Styrene	ND	2.0	0.18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.30	ug/kg	
108-88-3	Toluene	ND	1.0	0.21	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.15	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.15	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.27	ug/kg	

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8181-MB1	I203541.D	1	04/24/15	SJM	n/a	n/a	VI8181

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-1, JB93065-2, JB93065-3, JB93065-4, JB93065-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-122%
17060-07-0	1,2-Dichloroethane-D4	93%	68-124%
2037-26-5	Toluene-D8	92%	77-125%
460-00-4	4-Bromofluorobenzene	90%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V695-MB1	4V17035.D	1	04/25/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.27	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V695-MB1	4V17035.D	1	04/25/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	73-122%
2037-26-5	Toluene-D8	113%	84-119%
460-00-4	4-Bromofluorobenzene	100%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	6.86	17	ug/l	J
	Total TIC, Volatile		17	ug/l	J

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8181-BS	I203542.D	1	04/24/15	SJM	n/a	n/a	VI8181

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-1, JB93065-2, JB93065-3, JB93065-4, JB93065-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	42.1	84	30-150
71-43-2	Benzene	50	48.1	96	77-122
75-27-4	Bromodichloromethane	50	48.6	97	82-130
75-25-2	Bromoform	50	53.6	107	78-134
74-83-9	Bromomethane	50	62.4	125	56-141
78-93-3	2-Butanone (MEK)	50	46.9	94	61-139
75-15-0	Carbon disulfide	50	46.8	94	68-131
56-23-5	Carbon tetrachloride	50	48.0	96	73-139
108-90-7	Chlorobenzene	50	50.5	101	79-120
75-00-3	Chloroethane	50	58.4	117	64-150
67-66-3	Chloroform	50	46.2	92	77-123
74-87-3	Chloromethane	50	42.6	85	50-140
124-48-1	Dibromochloromethane	50	51.0	102	82-129
75-34-3	1,1-Dichloroethane	50	45.7	91	78-129
107-06-2	1,2-Dichloroethane	50	45.5	91	77-140
75-35-4	1,1-Dichloroethene	50	43.2	86	71-128
156-59-2	cis-1,2-Dichloroethene	50	46.6	93	73-123
156-60-5	trans-1,2-Dichloroethene	50	46.9	94	72-122
540-59-0	1,2-Dichloroethene (total)	100	93.5	94	73-122
78-87-5	1,2-Dichloropropane	50	47.9	96	80-129
10061-01-5	cis-1,3-Dichloropropene	50	42.1	84	75-124
10061-02-6	trans-1,3-Dichloropropene	50	43.9	88	75-129
100-41-4	Ethylbenzene	50	47.7	95	75-121
591-78-6	2-Hexanone	50	38.5	77	63-140
108-10-1	4-Methyl-2-pentanone(MIBK)	50	43.8	88	73-141
75-09-2	Methylene chloride	50	44.7	89	71-124
100-42-5	Styrene	50	48.6	97	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	44.9	90	72-121
127-18-4	Tetrachloroethene	50	57.5	115	70-135
108-88-3	Toluene	50	47.1	94	75-123
71-55-6	1,1,1-Trichloroethane	50	46.6	93	75-134
79-00-5	1,1,2-Trichloroethane	50	49.5	99	78-130
79-01-6	Trichloroethene	50	50.5	101	79-127
75-01-4	Vinyl chloride	50	47.7	95	57-136
1330-20-7	Xylene (total)	150	148	99	76-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI8181-BS	I203542.D	1	04/24/15	SJM	n/a	n/a	VI8181

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-1, JB93065-2, JB93065-3, JB93065-4, JB93065-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	70-122%
17060-07-0	1,2-Dichloroethane-D4	86%	68-124%
2037-26-5	Toluene-D8	99%	77-125%
460-00-4	4-Bromofluorobenzene	90%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V695-BS	4V17036.D	1	04/25/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	51.0	102	47-144
71-43-2	Benzene	50	48.8	98	81-119
75-27-4	Bromodichloromethane	50	53.9	108	81-125
75-25-2	Bromoform	50	49.7	99	74-128
74-83-9	Bromomethane	50	51.2	102	52-146
78-93-3	2-Butanone (MEK)	50	49.9	100	68-130
75-15-0	Carbon disulfide	50	47.7	95	71-129
56-23-5	Carbon tetrachloride	50	54.5	109	77-140
108-90-7	Chlorobenzene	50	51.1	102	84-116
75-00-3	Chloroethane	50	55.1	110	70-148
67-66-3	Chloroform	50	52.1	104	81-120
74-87-3	Chloromethane	50	44.1	88	50-143
124-48-1	Dibromochloromethane	50	53.4	107	81-122
75-34-3	1,1-Dichloroethane	50	53.1	106	80-125
107-06-2	1,2-Dichloroethane	50	53.4	107	78-131
75-35-4	1,1-Dichloroethene	50	52.9	106	73-127
156-59-2	cis-1,2-Dichloroethene	50	46.3	93	77-118
156-60-5	trans-1,2-Dichloroethene	50	51.0	102	75-118
540-59-0	1,2-Dichloroethene (total)	100	97.3	97	76-117
78-87-5	1,2-Dichloropropane	50	50.4	101	80-124
10061-01-5	cis-1,3-Dichloropropene	50	47.0	94	72-121
10061-02-6	trans-1,3-Dichloropropene	50	46.8	94	73-122
100-41-4	Ethylbenzene	50	49.4	99	80-118
591-78-6	2-Hexanone	50	45.1	90	66-128
108-10-1	4-Methyl-2-pentanone(MIBK)	50	49.2	98	73-129
75-09-2	Methylene chloride	50	50.3	101	75-122
100-42-5	Styrene	50	48.9	98	81-121
79-34-5	1,1,2,2-Tetrachloroethane	50	43.0	86	69-116
127-18-4	Tetrachloroethene	50	56.8	114	69-138
108-88-3	Toluene	50	49.5	99	80-122
71-55-6	1,1,1-Trichloroethane	50	56.2	112	80-131
79-00-5	1,1,2-Trichloroethane	50	49.6	99	78-122
79-01-6	Trichloroethene	50	54.5	109	83-122
75-01-4	Vinyl chloride	50	47.7	95	57-138
1330-20-7	Xylene (total)	150	155	103	82-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V695-BS	4V17036.D	1	04/25/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	73-122%
2037-26-5	Toluene-D8	110%	84-119%
460-00-4	4-Bromofluorobenzene	98%	78-117%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93002-1MS	I203544.D	1	04/25/15	SJM	n/a	n/a	VI8181
JB93002-1MSD	I203545.D	1	04/25/15	SJM	n/a	n/a	VI8181
JB93002-1	I203543.D	1	04/25/15	SJM	n/a	n/a	VI8181

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-1, JB93065-2, JB93065-3, JB93065-4, JB93065-6

CAS No.	Compound	JB93002-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	3860	E	300	4280	140	300	4090	77	5	10-180/33
71-43-2	Benzene	ND		300	89.9	30* a	300	99.3	33* a	10	48-136/30
75-27-4	Bromodichloromethane	ND		300	50.3	17* a	300	58.9	20* a	16	50-145/28
75-25-2	Bromoform	ND		300	18.1	6* a	300	24.9	8* a	32* a	39-148/24
74-83-9	Bromomethane	ND		300	198	66	300	215	72	8	12-156/32
78-93-3	2-Butanone (MEK)	ND		300	846	282* a	300	839	279* a	1	26-164/30
75-15-0	Carbon disulfide	ND		300	98.3	33* a	300	102	34	4	34-146/31
56-23-5	Carbon tetrachloride	ND		300	78.1	26* a	300	79.8	27* a	2	43-152/31
108-90-7	Chlorobenzene	ND		300	34.9	12* a	300	38.9	13* a	11	38-144/29
75-00-3	Chloroethane	ND		300	258	86	300	268	89	4	26-154/34
67-66-3	Chloroform	3.7	J	300	125	40* a	300	138	45* a	10	52-134/27
74-87-3	Chloromethane	ND		300	173	58	300	192	64	10	41-142/28
124-48-1	Dibromochloromethane	ND		300	28.7	10* a	300	35.5	12* a	21	49-142/24
75-34-3	1,1-Dichloroethane	ND		300	129	43* a	300	142	47* a	10	54-137/28
107-06-2	1,2-Dichloroethane	ND		300	118	39* a	300	129	43* a	9	56-140/24
75-35-4	1,1-Dichloroethene	ND		300	105	35* a	300	111	37* a	6	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		300	93.2	31* a	300	104	35* a	11	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		300	100	33* a	300	113	38* a	12	42-141/30
540-59-0	1,2-Dichloroethene (total)	ND		601	193	32* a	601	217	36* a	12	44-138/29
78-87-5	1,2-Dichloropropane	ND		300	111	37* a	300	118	39* a	6	53-139/27
10061-01-5	cis-1,3-Dichloropropene	ND		300	54.0	18* a	300	58.4	19* a	8	41-144/26
10061-02-6	trans-1,3-Dichloropropene	ND		300	47.4	16* a	300	51.5	17* a	8	36-148/27
100-41-4	Ethylbenzene	7.8		300	43.4	12* a	300	45.6	13* a	5	34-145/29
591-78-6	2-Hexanone	ND		300	102	34	300	99.5	33	2	16-176/32
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		300	162	54	300	170	57	5	33-154/29
75-09-2	Methylene chloride	ND		300	161	54	300	174	58	8	47-133/25
100-42-5	Styrene	ND		300	26.7	9* a	300	26.0	9* a	3	32-156/31
79-34-5	1,1,2,2-Tetrachloroethane	ND		300	62.6	21* a	300	67.2	22* a	7	31-149/25
127-18-4	Tetrachloroethene	ND		300	50.9	17* a	300	56.5	19* a	10	34-163/31
108-88-3	Toluene	ND		300	56.4	19* a	300	59.5	20* a	5	40-141/30
71-55-6	1,1,1-Trichloroethane	ND		300	109	36* a	300	114	38* a	4	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		300	106	35* a	300	113	38* a	6	43-146/27
79-01-6	Trichloroethene	ND		300	68.2	23* a	300	72.2	24* a	6	42-152/29
75-01-4	Vinyl chloride	660		300	772	37* b	300	793	44	3	38-149/29
1330-20-7	Xylene (total)	ND		901	113	13* a	901	126	14* a	11	34-146/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93002-1MS	I203544.D	1	04/25/15	SJM	n/a	n/a	VI8181
JB93002-1MSD	I203545.D	1	04/25/15	SJM	n/a	n/a	VI8181
JB93002-1	I203543.D	1	04/25/15	SJM	n/a	n/a	VI8181

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-1, JB93065-2, JB93065-3, JB93065-4, JB93065-6

CAS No.	Surrogate Recoveries	MS	MSD	JB93002-1	Limits
1868-53-7	Dibromofluoromethane	100%	101%	101%	70-122%
17060-07-0	1,2-Dichloroethane-D4	90%	93%	91%	68-124%
2037-26-5	Toluene-D8	94%	96%	93%	77-125%
460-00-4	4-Bromofluorobenzene	103%	105%	98%	72-130%

(a) Outside control limits due to matrix interference.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93001-1MS	4V17041.D	10	04/26/15	JM	n/a	n/a	V4V695
JB93001-1MSD	4V17042.D	10	04/26/15	JM	n/a	n/a	V4V695
JB93001-1	4V17040.D	10	04/26/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-5

CAS No.	Compound	JB93001-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		500	531	106	500	590	118	11	33-158/19
71-43-2	Benzene	2310	E	500	2530	44	500	2550	48	1	43-138/12
75-27-4	Bromodichloromethane	ND		500	545	109	500	537	107	1	72-128/13
75-25-2	Bromoform	ND		500	508	102	500	491	98	3	70-131/12
74-83-9	Bromomethane	ND		500	479	96	500	485	97	1	47-142/16
78-93-3	2-Butanone (MEK)	ND		500	503	101	500	551	110	9	56-146/12
75-15-0	Carbon disulfide	ND		500	530	106	500	558	112	5	38-136/17
56-23-5	Carbon tetrachloride	ND		500	601	120	500	589	118	2	45-149/17
108-90-7	Chlorobenzene	4.8	J	500	526	104	500	527	104	0	70-124/12
75-00-3	Chloroethane	ND		500	497	99	500	517	103	4	47-139/15
67-66-3	Chloroform	ND		500	531	106	500	538	108	1	66-126/13
74-87-3	Chloromethane	ND		500	424	85	500	447	89	5	41-140/15
124-48-1	Dibromochloromethane	ND		500	537	107	500	526	105	2	75-126/12
75-34-3	1,1-Dichloroethane	ND		500	538	108	500	558	112	4	60-129/13
107-06-2	1,2-Dichloroethane	ND		500	582	116	500	510	102	13* [a]	72-133/12
75-35-4	1,1-Dichloroethene	ND		500	566	113	500	589	118	4	40-137/17
156-59-2	cis-1,2-Dichloroethene	ND		500	485	97	500	499	100	3	57-128/13
156-60-5	trans-1,2-Dichloroethene	ND		500	546	109	500	564	113	3	53-128/15
540-59-0	1,2-Dichloroethene (total)	ND		1000	1030	103	1000	1060	106	3	55-128/13
78-87-5	1,2-Dichloropropane	ND		500	499	100	500	505	101	1	69-127/12
10061-01-5	cis-1,3-Dichloropropene	ND		500	509	102	500	513	103	1	67-129/14
10061-02-6	trans-1,3-Dichloropropene	ND		500	489	98	500	483	97	1	68-130/14
100-41-4	Ethylbenzene	330		500	801	94	500	793	93	1	38-139/12
591-78-6	2-Hexanone	ND		500	477	95	500	490	98	3	55-148/15
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		500	502	100	500	517	103	3	68-139/12
75-09-2	Methylene chloride	ND		500	514	103	500	536	107	4	63-128/13
100-42-5	Styrene	ND		500	509	102	500	500	100	2	61-134/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	456	91	500	478	96	5	67-126/13
127-18-4	Tetrachloroethene	ND		500	586	117	500	587	117	0	43-145/15
108-88-3	Toluene	20.8		500	547	105	500	561	108	3	51-136/13
71-55-6	1,1,1-Trichloroethane	ND		500	601	120	500	596	119	1	51-141/16
79-00-5	1,1,2-Trichloroethane	ND		500	513	103	500	515	103	0	71-127/12
79-01-6	Trichloroethene	17.2		500	582	113	500	582	113	0	55-136/14
75-01-4	Vinyl chloride	ND		500	494	99	500	525	105	6	34-147/17
1330-20-7	Xylene (total)	634		1500	2170	102	1500	2160	102	0	46-137/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB93001-1MS	4V17041.D	10	04/26/15	JM	n/a	n/a	V4V695
JB93001-1MSD	4V17042.D	10	04/26/15	JM	n/a	n/a	V4V695
JB93001-1	4V17040.D	10	04/26/15	JM	n/a	n/a	V4V695

The QC reported here applies to the following samples: **Method:** SW846 8260C

JB93065-5

CAS No.	Surrogate Recoveries	MS	MSD	JB93001-1	Limits
1868-53-7	Dibromofluoromethane	104%	105%	107%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	98%	104%	73-122%
2037-26-5	Toluene-D8	112%	113%	112%	84-119%
460-00-4	4-Bromofluorobenzene	98%	99%	100%	78-117%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB93065-5	4V17038.D	104	102	113	100
JB93001-1MS	4V17041.D	104	101	112	98
JB93001-1MSD	4V17042.D	105	98	113	99
V4V695-BS	4V17036.D	104	102	110	98
V4V695-MB1	4V17035.D	105	103	113	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%

Volatile Surrogate Recovery Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB93065-1	I203547.D	104	93	92	94
JB93065-2	I203548.D	103	97	96	98
JB93065-3	I203549.D	107	97	92	93
JB93065-4	I203550.D	106	95	92	92
JB93065-6	I203551.D	108	104	93	96
JB93002-1MS	I203544.D	100	90	94	103
JB93002-1MSD	I203545.D	101	93	96	105
VI8181-BS	I203542.D	95	86	99	90
VI8181-MB1	I203541.D	101	93	92	90

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-122%
S2 = 1,2-Dichloroethane-D4	68-124%
S3 = Toluene-D8	77-125%
S4 = 4-Bromofluorobenzene	72-130%

New Jersey
ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-MB1	P94866.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.6	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	6.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.3	ug/l	
	3&4-Methylphenol	ND	2.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.91	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.25	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.42	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.32	ug/l	

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-MB1	P94866.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

CAS No.	Compound	Result	RL	MDL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.26	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.80	2.0	0.55	ug/l	J
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.46	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.39	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	0.48	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.29	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
78-59-1	Isophorone	ND	2.0	0.34	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.29	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.32	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.30	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.52	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.38	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.21	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	12-110%
4165-62-2	Phenol-d5	32%	10-110%
118-79-6	2,4,6-Tribromophenol	90%	42-154%
4165-60-0	Nitrobenzene-d5	87%	29-139%

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-MB1	P94866.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	81%	33-129%
1718-51-0	Terphenyl-d14	89%	10-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-MB1	6P15193.D	1	04/28/15	SW	04/27/15	OP83426	E6P682

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	54	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	56	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	41	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	41	ug/kg	
95-48-7	2-Methylphenol	ND	67	38	ug/kg	
	3&4-Methylphenol	ND	67	42	ug/kg	
88-75-5	2-Nitrophenol	ND	170	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	56	ug/kg	
87-86-5	Pentachlorophenol	ND	170	57	ug/kg	
108-95-2	Phenol	ND	67	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.7	ug/kg	
208-96-8	Acenaphthylene	ND	33	11	ug/kg	
120-12-7	Anthracene	ND	33	12	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	19	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	67	15	ug/kg	
218-01-9	Chrysene	ND	33	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	9.9	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	10	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	67	9.6	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	67	8.9	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	67	7.4	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	15	ug/kg	

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-MB1	6P15193.D	1	04/28/15	SW	04/27/15	OP83426	E6P682

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Compound	Result	RL	MDL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	33	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	8.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	11	ug/kg	
132-64-9	Dibenzofuran	ND	67	9.9	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	7.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	16	ug/kg	
84-66-2	Diethyl phthalate	ND	67	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	29	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.3	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.3	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	12	ug/kg	
78-59-1	Isophorone	ND	67	9.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	33	9.1	ug/kg	
98-95-3	Nitrobenzene	ND	67	9.6	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	8.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	33	15	ug/kg	
129-00-0	Pyrene	ND	33	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	67	8.9	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	74%	22-121%
4165-62-2	Phenol-d5	72%	27-119%
118-79-6	2,4,6-Tribromophenol	77%	17-158%
4165-60-0	Nitrobenzene-d5	73%	33-127%

Method Blank Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-MB1	6P15193.D	1	04/28/15	SW	04/27/15	OP83426	E6P682

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	71%	41-121%
1718-51-0	Terphenyl-d14	88%	44-137%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.57	1800	ug/kg	J
	system artifact	2.83	140	ug/kg	J
	system artifact/aldol-condensation	2.89	340	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-BS1	P94867.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	38.8	78	44-118
59-50-7	4-Chloro-3-methyl phenol	50	42.5	85	47-133
120-83-2	2,4-Dichlorophenol	50	43.2	86	49-129
105-67-9	2,4-Dimethylphenol	50	43.6	87	41-137
51-28-5	2,4-Dinitrophenol	100	76.2	76	38-154
534-52-1	4,6-Dinitro-o-cresol	50	39.4	79	40-143
95-48-7	2-Methylphenol	50	36.5	73	39-112
	3&4-Methylphenol	50	33.6	67	36-107
88-75-5	2-Nitrophenol	50	43.9	88	47-132
100-02-7	4-Nitrophenol	50	23.8	48	13-121
87-86-5	Pentachlorophenol	50	47.5	95	42-144
108-95-2	Phenol	50	20.9	42	10-110
95-95-4	2,4,5-Trichlorophenol	50	44.9	90	59-129
88-06-2	2,4,6-Trichlorophenol	50	44.8	90	56-132
83-32-9	Acenaphthene	50	40.5	81	50-122
208-96-8	Acenaphthylene	50	36.0	72	42-110
120-12-7	Anthracene	50	42.6	85	55-124
56-55-3	Benzo(a)anthracene	50	44.0	88	48-126
50-32-8	Benzo(a)pyrene	50	45.5	91	42-135
205-99-2	Benzo(b)fluoranthene	50	46.3	93	42-139
191-24-2	Benzo(g,h,i)perylene	50	44.9	90	38-140
207-08-9	Benzo(k)fluoranthene	50	41.7	83	43-132
101-55-3	4-Bromophenyl phenyl ether	50	45.1	90	54-133
85-68-7	Butyl benzyl phthalate	50	48.6	97	31-162
91-58-7	2-Chloronaphthalene	50	37.7	75	43-114
106-47-8	4-Chloroaniline	50	25.2	50	11-110
86-74-8	Carbazole	50	40.5	81	59-120
218-01-9	Chrysene	50	44.0	88	49-132
111-91-1	bis(2-Chloroethoxy)methane	50	44.7	89	46-133
111-44-4	bis(2-Chloroethyl)ether	50	40.4	81	45-130
108-60-1	bis(2-Chloroisopropyl)ether	50	37.7	75	38-129
7005-72-3	4-Chlorophenyl phenyl ether	50	40.7	81	52-128
95-50-1	1,2-Dichlorobenzene	50	35.2	70	29-114
541-73-1	1,3-Dichlorobenzene	50	32.8	66	26-108
106-46-7	1,4-Dichlorobenzene	50	33.6	67	27-109
121-14-2	2,4-Dinitrotoluene	50	46.3	93	56-141

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-BS1	P94867.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	50	47.7	95	57-140
91-94-1	3,3'-Dichlorobenzidine	100	68.6	69	21-114
53-70-3	Dibenzo(a,h)anthracene	50	47.5	95	40-141
132-64-9	Dibenzofuran	50	42.3	85	57-114
84-74-2	Di-n-butyl phthalate	50	44.1	88	47-157
117-84-0	Di-n-octyl phthalate	50	53.4	107	43-159
84-66-2	Diethyl phthalate	50	43.5	87	36-147
131-11-3	Dimethyl phthalate	50	43.5	87	16-154
117-81-7	bis(2-Ethylhexyl)phthalate	50	49.6	99	44-157
206-44-0	Fluoranthene	50	41.7	83	55-131
86-73-7	Fluorene	50	42.3	85	54-126
118-74-1	Hexachlorobenzene	50	45.1	90	48-130
87-68-3	Hexachlorobutadiene	50	36.4	73	19-120
77-47-4	Hexachlorocyclopentadiene	100	71.7	72	10-121
67-72-1	Hexachloroethane	50	34.1	68	22-115
193-39-5	Indeno(1,2,3-cd)pyrene	50	46.8	94	38-139
78-59-1	Isophorone	50	46.9	94	43-131
91-57-6	2-Methylnaphthalene	50	40.3	81	46-112
88-74-4	2-Nitroaniline	50	47.1	94	48-149
99-09-2	3-Nitroaniline	50	33.8	68	27-112
100-01-6	4-Nitroaniline	50	41.6	83	52-121
91-20-3	Naphthalene	50	36.1	72	36-113
98-95-3	Nitrobenzene	50	44.0	88	41-133
621-64-7	N-Nitroso-di-n-propylamine	50	42.4	85	45-136
86-30-6	N-Nitrosodiphenylamine	50	44.9	90	52-126
85-01-8	Phenanthrene	50	41.2	82	54-122
129-00-0	Pyrene	50	44.2	88	51-128
120-82-1	1,2,4-Trichlorobenzene	50	35.0	70	28-114

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	54%	12-110%
4165-62-2	Phenol-d5	36%	10-110%
118-79-6	2,4,6-Tribromophenol	104%	42-154%
4165-60-0	Nitrobenzene-d5	90%	29-139%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-BS1	P94867.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	88%	33-129%
1718-51-0	Terphenyl-d14	100%	10-140%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-BS1	6P15194.D	1	04/28/15	SW	04/27/15	OP83426	E6P682

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1290	77	54-115
59-50-7	4-Chloro-3-methyl phenol	1670	1380	83	55-125
120-83-2	2,4-Dichlorophenol	1670	1320	79	55-122
105-67-9	2,4-Dimethylphenol	1670	1560	94	53-140
51-28-5	2,4-Dinitrophenol	3330	2600	78	38-145
534-52-1	4,6-Dinitro-o-cresol	1670	1310	79	45-133
95-48-7	2-Methylphenol	1670	1340	80	55-116
	3&4-Methylphenol	1670	1310	79	55-114
88-75-5	2-Nitrophenol	1670	1240	74	53-122
100-02-7	4-Nitrophenol	1670	1420	85	37-171
87-86-5	Pentachlorophenol	1670	1350	81	39-141
108-95-2	Phenol	1670	1270	76	50-114
95-95-4	2,4,5-Trichlorophenol	1670	1380	83	61-122
88-06-2	2,4,6-Trichlorophenol	1670	1290	77	59-124
83-32-9	Acenaphthene	1670	1340	80	58-123
208-96-8	Acenaphthylene	1670	1190	71	47-100
120-12-7	Anthracene	1670	1340	80	58-123
56-55-3	Benzo(a)anthracene	1670	1340	80	56-119
50-32-8	Benzo(a)pyrene	1670	1430	86	55-129
205-99-2	Benzo(b)fluoranthene	1670	1320	79	54-130
191-24-2	Benzo(g,h,i)perylene	1670	1370	82	49-130
207-08-9	Benzo(k)fluoranthene	1670	1400	84	53-124
101-55-3	4-Bromophenyl phenyl ether	1670	1370	82	59-130
85-68-7	Butyl benzyl phthalate	1670	1470	88	59-140
91-58-7	2-Chloronaphthalene	1670	1290	77	54-117
106-47-8	4-Chloroaniline	1670	1090	65	20-90
86-74-8	Carbazole	1670	1280	77	58-118
218-01-9	Chrysene	1670	1440	86	58-125
111-91-1	bis(2-Chloroethoxy)methane	1670	1400	84	51-124
111-44-4	bis(2-Chloroethyl)ether	1670	1320	79	49-125
108-60-1	bis(2-Chloroisopropyl)ether	1670	1310	79	48-121
7005-72-3	4-Chlorophenyl phenyl ether	1670	1330	80	57-128
95-50-1	1,2-Dichlorobenzene	1670	1270	76	53-114
541-73-1	1,3-Dichlorobenzene	1670	1200	72	50-110
106-46-7	1,4-Dichlorobenzene	1670	1250	75	51-111
121-14-2	2,4-Dinitrotoluene	1670	1390	83	57-133

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-BS1	6P15194.D	1	04/28/15	SW	04/27/15	OP83426	E6P682

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	1670	1350	81	57-132
91-94-1	3,3'-Dichlorobenzidine	3330	2480	74	33-112
53-70-3	Dibenzo(a,h)anthracene	1670	1310	79	52-128
132-64-9	Dibenzofuran	1670	1290	77	56-113
84-74-2	Di-n-butyl phthalate	1670	1420	85	59-146
117-84-0	Di-n-octyl phthalate	1670	1390	83	56-150
84-66-2	Diethyl phthalate	1670	1350	81	56-132
131-11-3	Dimethyl phthalate	1670	1330	80	59-124
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1430	86	60-142
206-44-0	Fluoranthene	1670	1350	81	58-125
86-73-7	Fluorene	1670	1330	80	58-124
118-74-1	Hexachlorobenzene	1670	1340	80	54-126
87-68-3	Hexachlorobutadiene	1670	1300	78	42-134
77-47-4	Hexachlorocyclopentadiene	3330	2890	87	31-155
67-72-1	Hexachloroethane	1670	1290	77	51-120
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1290	77	50-129
78-59-1	Isophorone	1670	1470	88	48-120
91-57-6	2-Methylnaphthalene	1670	1360	82	50-111
88-74-4	2-Nitroaniline	1670	1380	83	50-141
99-09-2	3-Nitroaniline	1670	1190	71	33-102
100-01-6	4-Nitroaniline	1670	1380	83	53-120
91-20-3	Naphthalene	1670	1330	80	48-116
98-95-3	Nitrobenzene	1670	1330	80	46-125
621-64-7	N-Nitroso-di-n-propylamine	1670	1290	77	48-127
86-30-6	N-Nitrosodiphenylamine	1670	1410	85	61-123
85-01-8	Phenanthrene	1670	1290	77	55-120
129-00-0	Pyrene	1670	1390	83	55-123
120-82-1	1,2,4-Trichlorobenzene	1670	1300	78	48-121

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	77%	22-121%
4165-62-2	Phenol-d5	75%	27-119%
118-79-6	2,4,6-Tribromophenol	80%	17-158%
4165-60-0	Nitrobenzene-d5	76%	33-127%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-BS1	6P15194.D	1	04/28/15	SW	04/27/15	OP83426	E6P682

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	75%	41-121%
1718-51-0	Terphenyl-d14	87%	44-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-MS	P94868.D	1	04/26/15	AD	04/24/15	OP83381	EP4098
OP83381-MSD	P94869.D	1	04/26/15	AD	04/24/15	OP83381	EP4098
JB93040-1	P94870.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

CAS No.	Compound	JB93040-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	80.0	80	100	78.1	78	2	39-126/24
59-50-7	4-Chloro-3-methyl phenol	ND		100	85.6	86	100	86.8	87	1	47-136/24
120-83-2	2,4-Dichlorophenol	ND		100	87.3	87	100	89.2	89	2	45-134/24
105-67-9	2,4-Dimethylphenol	ND		100	91.6	92	100	92.9	93	1	32-152/30
51-28-5	2,4-Dinitrophenol	ND		200	162	81	200	166	83	2	24-169/31
534-52-1	4,6-Dinitro-o-cresol	ND		100	81.5	82	100	86.8	87	6	27-151/30
95-48-7	2-Methylphenol	ND		100	82.1	82	100	81.5	82	1	41-122/25
	3&4-Methylphenol	ND		100	79.9	80	100	78.6	79	2	34-129/24
88-75-5	2-Nitrophenol	ND		100	86.4	86	100	92.7	93	7	46-132/25
100-02-7	4-Nitrophenol	ND		100	84.0	84	100	83.3	83	1	21-167/27
87-86-5	Pentachlorophenol	ND		100	95.6	96	100	99.6	100	4	36-158/29
108-95-2	Phenol	ND		100	63.3	63	100	61.9	62	2	24-105/25
95-95-4	2,4,5-Trichlorophenol	ND		100	87.9	88	100	90.4	90	3	56-133/25
88-06-2	2,4,6-Trichlorophenol	ND		100	88.6	89	100	87.8	88	1	52-136/23
83-32-9	Acenaphthene	ND		100	86.3	86	100	87.2	87	1	40-138/27
208-96-8	Acenaphthylene	ND		100	73.7	74	100	75.5	76	2	36-108/27
120-12-7	Anthracene	ND		100	83.9	84	100	85.7	86	2	47-131/28
56-55-3	Benzo(a)anthracene	ND		100	86.7	87	100	90.0	90	4	40-131/30
50-32-8	Benzo(a)pyrene	ND		100	86.9	87	100	91.7	92	5	37-138/32
205-99-2	Benzo(b)fluoranthene	ND		100	91.7	92	100	95.7	96	4	36-140/33
191-24-2	Benzo(g,h,i)perylene	ND		100	86.0	86	100	88.4	88	3	32-142/33
207-08-9	Benzo(k)fluoranthene	ND		100	82.1	82	100	85.3	85	4	38-132/33
101-55-3	4-Bromophenyl phenyl ether	ND		100	91.8	92	100	95.6	96	4	48-138/27
85-68-7	Butyl benzyl phthalate	ND		100	94.8	95	100	101	101	6	33-161/32
91-58-7	2-Chloronaphthalene	ND		100	80.0	80	100	82.3	82	3	38-127/27
106-47-8	4-Chloroaniline	ND		100	34.6	35	100	32.9	33	5	10-110/50
86-74-8	Carbazole	ND		100	80.1	80	100	81.9	82	2	51-126/29
218-01-9	Chrysene	ND		100	84.8	85	100	89.3	89	5	42-136/30
111-91-1	bis(2-Chloroethoxy)methane	ND		100	88.8	89	100	91.2	91	3	39-137/29
111-44-4	bis(2-Chloroethyl)ether	ND		100	81.8	82	100	80.5	81	2	33-141/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	78.7	79	100	77.9	78	1	30-135/29
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	84.7	85	100	86.7	87	2	44-140/29
95-50-1	1,2-Dichlorobenzene	ND		100	74.1	74	100	73.7	74	1	18-132/29
541-73-1	1,3-Dichlorobenzene	ND		100	69.7	70	100	70.1	70	1	21-119/30
106-46-7	1,4-Dichlorobenzene	ND		100	71.9	72	100	72.1	72	0	20-123/31
121-14-2	2,4-Dinitrotoluene	ND		100	90.5	91	100	90.8	91	0	45-148/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-MS	P94868.D	1	04/26/15	AD	04/24/15	OP83381	EP4098
OP83381-MSD	P94869.D	1	04/26/15	AD	04/24/15	OP83381	EP4098
JB93040-1	P94870.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

7.3.1

7

CAS No.	Compound	JB93040-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	ND		100	93.3	93	100	95.3	95	2	48-146/30
91-94-1	3,3'-Dichlorobenzidine	ND		200	115	58	200	116	58	1	10-126/44
53-70-3	Dibenzo(a,h)anthracene	ND		100	91.2	91	100	95.5	96	5	33-144/34
132-64-9	Dibenzofuran	ND		100	83.0	83	100	84.8	85	2	45-125/28
84-74-2	Di-n-butyl phthalate	ND		100	87.0	87	100	88.9	89	2	41-159/32
117-84-0	Di-n-octyl phthalate	ND		100	107	107	100	112	112	5	39-161/31
84-66-2	Diethyl phthalate	ND		100	86.5	87	100	87.8	88	1	27-153/32
131-11-3	Dimethyl phthalate	ND		100	85.8	86	100	87.2	87	2	12-157/38
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	96.6	97	100	99.7	100	3	39-160/34
206-44-0	Fluoranthene	ND		100	82.0	82	100	84.9	85	3	44-137/31
86-73-7	Fluorene	ND		100	85.1	85	100	88.0	88	3	43-140/28
118-74-1	Hexachlorobenzene	ND		100	90.1	90	100	91.8	92	2	39-137/28
87-68-3	Hexachlorobutadiene	ND		100	77.9	78	100	79.6	80	2	17-132/34
77-47-4	Hexachlorocyclopentadiene	ND		200	147	74	200	150	75	2	10-132/38
67-72-1	Hexachloroethane	ND		100	70.7	71	100	72.6	73	3	19-126/33
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	86.6	87	100	89.4	89	3	31-143/34
78-59-1	Isophorone	ND		100	92.6	93	100	95.3	95	3	34-139/29
91-57-6	2-Methylnaphthalene	ND		100	81.3	81	100	85.2	85	5	39-118/27
88-74-4	2-Nitroaniline	ND		100	93.1	93	100	93.8	94	1	34-158/34
99-09-2	3-Nitroaniline	ND		100	49.2	49	100	46.9	47	5	12-117/42
100-01-6	4-Nitroaniline	ND		100	79.5	80	100	79.5	80	0	33-128/34
91-20-3	Naphthalene	ND		100	76.6	77	100	77.5	78	1	23-133/30
98-95-3	Nitrobenzene	ND		100	88.0	88	100	89.1	89	1	29-146/28
621-64-7	N-Nitroso-di-n-propylamine	ND		100	85.7	86	100	85.5	86	0	33-147/29
86-30-6	N-Nitrosodiphenylamine	ND		100	88.4	88	100	91.3	91	3	42-137/28
85-01-8	Phenanthrene	ND		100	82.5	83	100	84.3	84	2	44-131/28
129-00-0	Pyrene	ND		100	87.3	87	100	91.3	91	4	43-133/30
120-82-1	1,2,4-Trichlorobenzene	ND		100	74.6	75	100	77.1	77	3	23-129/29

CAS No.	Surrogate Recoveries	MS	MSD	JB93040-1	Limits
367-12-4	2-Fluorophenol	72%	71%	41%	12-110%
4165-62-2	Phenol-d5	58%	59%	27%	10-110%
118-79-6	2,4,6-Tribromophenol	103%	107%	96%	42-154%
4165-60-0	Nitrobenzene-d5	90%	93%	82%	29-139%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83381-MS	P94868.D	1	04/26/15	AD	04/24/15	OP83381	EP4098
OP83381-MSD	P94869.D	1	04/26/15	AD	04/24/15	OP83381	EP4098
JB93040-1	P94870.D	1	04/26/15	AD	04/24/15	OP83381	EP4098

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-5

CAS No.	Surrogate Recoveries	MS	MSD	JB93040-1	Limits
321-60-8	2-Fluorobiphenyl	87%	89%	82%	33-129%
1718-51-0	Terphenyl-d14	97%	102%	73%	10-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-MS	6P15243.D	1	04/29/15	SW	04/27/15	OP83426	E6P684
OP83426-MSD	6P15244.D	1	04/29/15	SW	04/27/15	OP83426	E6P684
JB93041-23	6P15242.D	1	04/29/15	SW	04/27/15	OP83426	E6P684

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Compound	JB93041-23 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1850	1080	58	1810	905	50	18	29-125/36
59-50-7	4-Chloro-3-methyl phenol	ND		1850	1380	75	1810	1090	60	23	27-147/36
120-83-2	2,4-Dichlorophenol	ND		1850	1100	59	1810	826	46	28	26-139/36
105-67-9	2,4-Dimethylphenol	ND		1850	1470	79	1810	1300	72	12	32-153/36
51-28-5	2,4-Dinitrophenol	ND		3700	557	15	3630	401	11	33	10-138/52
534-52-1	4,6-Dinitro-o-cresol	ND		1850	350	19	1810	213	12	49	10-140/52
95-48-7	2-Methylphenol	ND		1850	1270	69	1810	1210	67	5	34-129/36
	3&4-Methylphenol	ND		1850	1260	68	1810	1140	63	10	35-129/35
88-75-5	2-Nitrophenol	ND		1850	908	49	1810	664	37	31	21-133/40
100-02-7	4-Nitrophenol	ND		1850	1100	59	1810	745	41	38	15-178/41
87-86-5	Pentachlorophenol	ND		1850	772	42	1810	548	30	34	10-149/42
108-95-2	Phenol	ND		1850	1160	63	1810	1070	59	8	29-126/36
95-95-4	2,4,5-Trichlorophenol	ND		1850	1080	58	1810	743	41	37* [a]	31-139/36
88-06-2	2,4,6-Trichlorophenol	ND		1850	939	51	1810	649	36	37	28-142/38
83-32-9	Acenaphthene	ND		1850	1440	78	1810	1190	66	19	32-140/36
208-96-8	Acenaphthylene	ND		1850	1310	71	1810	1090	60	18	23-120/36
120-12-7	Anthracene	ND		1850	1550	84	1810	1240	68	22	32-142/38
56-55-3	Benzo(a)anthracene	31.5	J	1850	1540	82	1810	1230	66	22	30-139/42
50-32-8	Benzo(a)pyrene	27.2	J	1850	1600	85	1810	1260	68	24	32-145/42
205-99-2	Benzo(b)fluoranthene	37.5		1850	1530	81	1810	1240	66	21	30-147/43
191-24-2	Benzo(g,h,i)perylene	23.8	J	1850	1500	80	1810	1190	64	23	27-148/41
207-08-9	Benzo(k)fluoranthene	ND		1850	1550	84	1810	1190	66	26	32-138/41
101-55-3	4-Bromophenyl phenyl ether	ND		1850	1560	84	1810	1240	68	23	42-140/36
85-68-7	Butyl benzyl phthalate	ND		1850	1630	88	1810	1310	72	22	46-150/38
91-58-7	2-Chloronaphthalene	ND		1850	1360	74	1810	1190	66	13	40-123/34
106-47-8	4-Chloroaniline	ND		1850	988	53	1810	1010	56	2	10-110/51
86-74-8	Carbazole	ND		1850	1460	79	1810	1180	65	21	35-135/36
218-01-9	Chrysene	29.0	J	1850	1650	88	1810	1290	70	24	31-144/42
111-91-1	bis(2-Chloroethoxy)methane	ND		1850	1350	73	1810	1240	68	8	34-132/35
111-44-4	bis(2-Chloroethyl)ether	ND		1850	1260	68	1810	1140	63	10	30-134/40
108-60-1	bis(2-Chloroisopropyl)ether	ND		1850	1200	65	1810	1080	60	11	30-128/37
7005-72-3	4-Chlorophenyl phenyl ether	ND		1850	1460	79	1810	1180	65	21	39-139/36
95-50-1	1,2-Dichlorobenzene	ND		1850	1220	66	1810	1060	58	14	32-121/36
541-73-1	1,3-Dichlorobenzene	ND		1850	1190	64	1810	1000	55	17	31-115/37
106-46-7	1,4-Dichlorobenzene	ND		1850	1190	64	1810	1000	55	17	31-118/35
121-14-2	2,4-Dinitrotoluene	ND		1850	1490	81	1810	1210	67	21	33-144/38

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-MS	6P15243.D	1	04/29/15	SW	04/27/15	OP83426	E6P684
OP83426-MSD	6P15244.D	1	04/29/15	SW	04/27/15	OP83426	E6P684
JB93041-23	6P15242.D	1	04/29/15	SW	04/27/15	OP83426	E6P684

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Compound	JB93041-23 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	ND		1850	1490	81	1810	1210	67	21	38-140/38
91-94-1	3,3'-Dichlorobenzidine	ND		3700	2730	74	3630	2350	65	15	16-129/44
53-70-3	Dibenzo(a,h)anthracene	ND		1850	1430	77	1810	1140	63	23	35-141/39
132-64-9	Dibenzofuran	ND		1850	1460	79	1810	1230	68	17	33-133/35
84-74-2	Di-n-butyl phthalate	ND		1850	1680	91	1810	1350	74	22	42-153/37
117-84-0	Di-n-octyl phthalate	ND		1850	1600	86	1810	1230	68	26	42-158/36
84-66-2	Diethyl phthalate	ND		1850	1510	82	1810	1220	67	21	45-136/35
131-11-3	Dimethyl phthalate	ND		1850	1480	80	1810	1220	67	19	46-131/34
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1850	1600	86	1810	1290	71	21	42-161/38
206-44-0	Fluoranthene	54.2		1850	1640	86	1810	1290	68	24	27-146/42
86-73-7	Fluorene	ND		1850	1480	80	1810	1180	65	23	37-138/39
118-74-1	Hexachlorobenzene	ND		1850	1570	85	1810	1250	69	23	37-134/36
87-68-3	Hexachlorobutadiene	ND		1850	1280	69	1810	1110	61	14	28-136/36
77-47-4	Hexachlorocyclopentadiene	ND		3700	2300	62	3630	1940	53	17	10-138/50
67-72-1	Hexachloroethane	ND		1850	1220	66	1810	1020	56	18	24-121/39
193-39-5	Indeno(1,2,3-cd)pyrene	23.0	J	1850	1460	78	1810	1140	62	25	28-151/41
78-59-1	Isophorone	ND		1850	1400	76	1810	1260	69	11	30-130/35
91-57-6	2-Methylnaphthalene	ND		1850	1350	73	1810	1260	69	7	30-123/36
88-74-4	2-Nitroaniline	ND		1850	1480	80	1810	1250	69	17	33-153/37
99-09-2	3-Nitroaniline	ND		1850	1340	72	1810	1100	61	20	20-118/43
100-01-6	4-Nitroaniline	ND		1850	1390	75	1810	1140	63	20	25-128/40
91-20-3	Naphthalene	ND		1850	1290	70	1810	1170	65	10	29-125/38
98-95-3	Nitrobenzene	ND		1850	1240	67	1810	1150	63	8	29-133/36
621-64-7	N-Nitroso-di-n-propylamine	ND		1850	1180	64	1810	1090	60	8	30-137/38
86-30-6	N-Nitrosodiphenylamine	ND		1850	1580	85	1810	1290	71	20	39-145/37
85-01-8	Phenanthrene	33.7	J	1850	1560	83	1810	1230	66	24	28-142/42
129-00-0	Pyrene	44.8		1850	1620	85	1810	1260	67	25	27-150/42
120-82-1	1,2,4-Trichlorobenzene	ND		1850	1270	69	1810	1120	62	13	31-128/36

CAS No.	Surrogate Recoveries	MS	MSD	JB93041-23	Limits
367-12-4	2-Fluorophenol	63%	56%		22-121%
4165-62-2	Phenol-d5	64%	59%		27-119%
118-79-6	2,4,6-Tribromophenol	61%	45%		17-158%
4165-60-0	Nitrobenzene-d5	68%	62%	71%	33-127%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP83426-MS	6P15243.D	1	04/29/15	SW	04/27/15	OP83426	E6P684
OP83426-MSD	6P15244.D	1	04/29/15	SW	04/27/15	OP83426	E6P684
JB93041-23	6P15242.D	1	04/29/15	SW	04/27/15	OP83426	E6P684

The QC reported here applies to the following samples: **Method:** SW846 8270D

JB93065-1, JB93065-2, JB93065-3, JB93065-4

CAS No.	Surrogate Recoveries	MS	MSD	JB93041-23	Limits
321-60-8	2-Fluorobiphenyl	74%	66%	73%	41-121%
1718-51-0	Terphenyl-d14	89%	73%	84%	44-137%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB93065-5	P94880.D	43	28	92	86	85	86
OP83381-BS1	P94867.D	54	36	104	90	88	100
OP83381-MB1	P94866.D	48	32	90	87	81	89
OP83381-MS	P94868.D	72	58	103	90	87	97
OP83381-MSD	P94869.D	71	59	107	93	89	102

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	12-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	42-154%
S4 = Nitrobenzene-d5	29-139%
S5 = 2-Fluorobiphenyl	33-129%
S6 = Terphenyl-d14	10-140%

Semivolatile Surrogate Recovery Summary

Job Number: JB93065
Account: EAGONOHW Eagon & Associates, Inc.
Project: Summit National Superfund Site, Deerfield OH

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JB93065-1	6P15345.D	72	70	77	74	77	84
JB93065-2	6P15346.D	75	70	84	78	80	90
JB93065-3	6P15347.D	67	64	79	66	69	84
JB93065-4	6P15348.D	67	64	77	70	72	83
OP83426-BS1	6P15194.D	77	75	80	76	75	87
OP83426-MB1	6P15193.D	74	72	77	73	71	88
OP83426-MS	6P15243.D	63	64	61	68	74	89
OP83426-MSD	6P15244.D	56	59	45	62	66	73

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	22-121%
S2 = Phenol-d5	27-119%
S3 = 2,4,6-Tribromophenol	17-158%
S4 = Nitrobenzene-d5	33-127%
S5 = 2-Fluorobiphenyl	41-121%
S6 = Terphenyl-d14	44-137%

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: SURFACE WATER

WELL DATA

Water-Level Date (MM DD YY) | **Water-Level Time** (2400 Hr. Clock) | **Purge/Sample Method:** GRAB X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) (ft/msl) | **Depth to Water (DTW) (from TOC)** (ft) | **Groundwater Elevation (site datum, from TOC)** (ft/msl)

Total Well Depth (from TOC) (ft) | Water Column Height (well depth - DTW) (ft) | Casing ID (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated ~~Y~~ or ~~N~~ | Filter Device ~~Y~~ or ~~N~~ ~~0.45µ~~ or — µ *(circle or fill in)*

Purging Device —
Sampling Device —
X-Other —

A-Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Pump Type (Vol) —
A-P1200M (495 ml)
B-P1101M (395 ml)
C-P1150 (130 ml)
X-Other

Tubing ID (Vol/Ft) —
A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-0.17 inch (4.5 ml/ft)
X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) *circle one of each*	ACTUAL VOL PURGED (Liters:Gallons) *circle one*	(PUMP/TUBING:WELL) VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04 22 15	09:35	—	7.28	844	11.1	6.02	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: slightly cloudy Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-10mph / W Air Temp: ~45°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Surface water sample collected by filling sample bottles directly from ~2" below water surface from near confluence of S & E ditches near SE corner of site. (see photos)

SW-042215-EA-019

Sample ID.#: SW-042215-EA-020 (MS) Samples Collected:
SW-042215-EA-021 (MSD) TCL VOCs; TCL SVOCs

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/22/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

EA-100 R: 4/10

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: SURFACE WATER DUPLICATE

WELL DATA

Water-Level Date	(MM DD YY)	**Water-Level Time**	(2400 Hr. Clock)	**Purge/Sample Method:** GRAB	X = Other LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.
Well Elevation (at TOC)	(ft/msl)	**Depth to Water (DTW) (from TOC)**	(ft)	**Groundwater Elevation (site datum, from TOC)**	(ft/msl)
Total Well Depth (from TOC)	(ft)	Water Column Height (well depth - DTW)	(ft)	Casing ID	(in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated ~~Y or N~~ Filter Device ~~Y or N~~ ~~0.45µ~~ or ___ µ *(circle or fill in)*

Purging Device ___ A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device ___

X-Other ___

Pump Type (Vol) ___ A-P1200M (495 ml) B-P1101M (395 ml) C-P1150 (130 ml) X-Other

Tubing ID (Vol/Ft) ___ A-3/8 inch (22 ml/ft) B-1/4 inch (10 ml/ft) C-0.17 inch (4.5 ml/ft) X -Other

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) *circle one of each*	ACTUAL VOL PURGED (Liters:Gallons) *circle one*	(PUMP/TUBING:WELL) VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
042215	0935	—	737	840	108	5.72	—

FIELD COMMENTS

Sample Appearance: — Odor: None Color: slightly cloudy Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-10 mph / W Air Temp: ~45°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Collected duplicate sample of surface water at the same time and in the same manner as the original surface water sample.

Sample I.D. #: SW-042215-EA-022 Samples Collected: TCL VOCs; TCL SVOCs

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/22/15	Andrew D Graham	[signature]	Eagon & Associates, Inc

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: SURFACE WATER FIELD BLANK

WELL DATA

Water-Level Date (MM DD YY) | **Water-Level Time** (2400 Hr. Clock) | **Purge/Sample Method:** GRAB X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) (ft/msl) | **Depth to Water (DTW) (from TOC)** (ft) | **Groundwater Elevation (site datum, from TOC)** (ft/msl)

Total Well Depth (from TOC) (ft) | Water Column Height (well depth - DTW) (ft) | Casing ID (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated ~~Y or N~~ | Filter Device ~~Y or N~~ ~~0.45µ~~ or — µ *(circle or fill in)*

Purging Device —
Sampling Device —
X-Other —

A-Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Pump Type (Vol) —
A-P1200M (495 ml)
B-P1101M (395 ml)
C-P1150 (130 ml)
X-Other

Tubing ID (Vol/Ft) —
A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-0.17 inch (4.5 ml/ft)
X -Other

PURGE INFO.

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) *circle one of each*	ACTUAL VOL PURGED (Liters:Gallons) *circle one*	(PUMP/TUBING:WELL) VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04 22 15	10:00						

FIELD COMMENTS

Sample Appearance: — Odor: None Color: Clear Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-10mph / SW Air Temp: ~45°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Collected surface water field blank sample by pouring lab-supplied water ~~from~~ ADG directly into sample bottles near the surface water collection point at SE corner of site.

Sample I.D. #: FB-042215-EA-023

Samples Collected: TCL VOCs; TCL SVOCs

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/22/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

FIELD INFORMATION FORM

S&E DITCH SED.

Site Name: SUMMIT NATIONAL

Sample Point: RINSE BLANK

WELL DATA

Water-Level Date (MM DD YY) | **Water-Level Time** (2400 Hr. Clock) | **Purge/Sample Method:** GRAB X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) (ft/msl) | **Depth to Water (DTW) (from TOC)** (ft) | **Groundwater Elevation (site datum, from TOC)** (ft/msl)

Total Well Depth (from TOC) (ft) | Water Column Height (well depth - DTW) (ft) | Casing ID (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated (Y) or ~~N~~ | Filter Device Y or N 0.45µ or — µ *(circle or fill in)*

Purging Device —
Sampling Device X
A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Pump Type (Vol) — A-P1200M (495 ml) B-P1101M (395 ml) C-P1150 (130 ml) X-Other

Tubing ID (Vol/Ft) — A-3/8 inch (22 ml/ft) B-1/4 inch (10 ml/ft) C-0.17 inch (4.5 ml/ft) X -Other

X-Other SS trowel & bowl

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) *circle one of each*	ACTUAL VOL PURGED (Liters:Gallons) *circle one*	(PUMP/TUBING:WELL) VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) *circle one*	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04 22 15	09:15						

Sample Appearance: — Odor: None Color: ~ Clear Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-10mph / W Air Temp: ~45°F Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

S&E Ditch Rinse Blank collected after decon of SS trowel & mixing bowl and prior to collecting sediment samples from the S&E ditch; used lab-supplied deionized water poured over bowl & trowel

Samples Collected:

Sample I.D. #: RB-042215-EA-028

TCL VOCs

TCL SVOCs

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/21/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

EA-100 R: 4/10

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: S&E DITCH SEDIMENT

WELL DATA

Water-Level Date (MM DD YY) | Water-Level Time (2400 Hr. Clock) | Purge/Sample Method: ~~GRAB~~ GRAB(VOCs) COMP (SVOCs) X = Other
LF = Low Flow P = Passive Dry = Dry 3-5 = 3-5 well vols.

Well Elevation (at TOC) (ft/msl) | Depth to Water (DTW) (from TOC) (ft) | Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft) | Water Column Height (well depth - DTW) (ft) | Casing ID (in)

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated (Y) or ~~N~~ | Filter Device ~~Y~~ or ~~N~~ ~~0.45µ~~ or — µ (circle or fill in)

Purging Device — | A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle | Pump Type (Vol) — | A-P1200M (495 ml) B-P1101M (395 ml) C-P1150 (130 ml) X-Other

Sampling Device X | Tubing ID (Vol/Ft) — | A-3/8 inch (22 ml/ft) B-1/4 inch (10 ml/ft) C-0.17 inch (4.5 ml/ft) X -Other

X-Other SS spoon & bowl

PURGE INFO

PURGE DATE (MM DD YY)	START PURGE TIME (2400 Hr. Clock)	ELAPSED HRS (hrs:min)	WATER VOL (L:Gal) IN (PUMP/TUBING:WELL CASING) circle one of each	ACTUAL VOL PURGED (Liters:Gallons) circle one	(PUMP/TUBING:WELL) VOLS PURGED (optional)

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) circle one	pH (std)	Conductance (µmhos/cm)	Temp (°C)	Turbidity (ntu)	Rate (ml/min)

Suggested range for 3 consec. readings or Permit/State requirements may be entered in spaces provided above (optional).

FIELD DATA

SAMPLE DATE (MM DD YY)	SAMPLE TIME (2400 Hr. Clock)	VOL PURGED (L : Gals) circle one	pH (std)	CONDUCTANCE (umhos/cm)	TEMP (°C)	TURBIDITY (ntu)	RATE (ml/min)
04/22/15	1015						

FIELD COMMENTS

Sample Appearance: — Odor: NONE Color: DARK GRAY/BLK Other: —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-10 mph/W Air Temp: ~45°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Collected sediment samples w/ S.S. trowel then transferring to SS bowl w/ gloved hand; sediment collected near confluence of S&E Ditches ~1-2' below water surface (see photos) ~10' from MW-113.

Sample I.D. #s:
SD-042215-EA-024
SD-042215-EA-025 (MS)
SD-042215-EA-026 (MSD)
SD-042215-EA-027 (DUP)

Samples Collected:
TCL VOCs (3-5mL Encore Samplers)
TCL SVOCs (1-125mL G Jar)

I certify that sampling procedures were in accordance with applicable EPA, State, and Site protocols:

Date	Name	Signature	Company
4/22/15	Andrew D. Graham	[signature]	Eagon & Associates, Inc.

EA-100 R: 4/10

APPENDIX C.

DATA VALIDATION RESULTS

DATA VALIDATION RESULTS

Groundwater Samples

Groundwater samples were collected from 12 monitoring wells during the April 2015 annual monitoring event at the Summit National Superfund Site (Site). Trip blanks, rinse blanks, duplicates, and matrix spike (MS)/matrix spike duplicate (MSD) samples were collected and analyzed per the frequency specified in the QAPP. Specifically, one trip blank was analyzed for volatile organic compounds (VOCs) by SW-846 Method 8260C, two rinse blank samples and two duplicate samples were collected and analyzed for the complete list of event parameters, and MS/MSD samples were collected from one Site monitoring well.

Duplicate sample results are compared to original sample results on the attached summary table (Table C1) and the relative percent difference (RPD) was calculated for each set of quantified results. Calculable RPD values between the original and duplicate samples were less than 20 percent for all duplicate comparisons.

The sample receipt summary (included in the laboratory analytical report) indicates that groundwater samples were received at the laboratory at a temperature of 5.2°C and all samples were adequately preserved.

Analysis of VOCs includes results that are below the reporting limit (RL) but are above the method detection limit (MDL). These results are qualified with a "J" qualifier indicating that the result is an estimated value. The analytical results narrative provided by the laboratory, Accutest Laboratories of Dayton, New Jersey, specifies dilution factors used and deviations from quality control (QC) protocols.

Volatile Organic Compounds

Samples were analyzed for VOCs by SW-846 Method 8260C. All analyses were performed within the required method holding time. All surrogate and blank spike recoveries

were compliant and there were no detections of target compounds reported in the method blank analyses.

There were RPD exceedances for sample JB93083-1MS/MSD for benzene, chlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Ethylbenzene, Toluene, Trichloroethene, and Xylenes. RPD values and associated QC limits are listed on page 44 of the laboratory analytical report (Appendix A). The MS and MSD recoveries were all within QC limits and the MSD recovery was higher in each case. This MS/MSD analysis is associated with analyses of samples from MW-111, DUP#1 (duplicate of MW-111), MW-209, MW-220, and MW-224. There were no detections of compounds with RPD exceedances at MW-209, MW-220, and MW-224. There were detections of 1,1-Dichloroethane, cis-1,2-Dichloroethene, and Xylene in samples MW-111 and DUP#1. The results for MW-111 and DUP#1 are within historical ranges for these compounds so no data have been qualified due to the RPD exceedances.

There was an RPD exceedance for 1,2-Dichloroethane for MS/MSD sample JB93001-1. The RPD was 13 percent and the upper QC limit is 12 percent. The MS and MSD recoveries were within control limits. This MS/MSD analysis is associated with analyses of samples from MW-4, MW-11, MW-113, MW-114, MW-115, MW-207, Rinse Blank #2 and the Trip Blank. There were no detections of 1,2-Dichloroethane in samples from MW-4, MW-113, MW-114, MW-115, MW-207, Rinse Blank #2 or the trip blank. The result for 1,2-Dichloroethane was 1.1 ug/L at MW-11. The result for 1,2-Dichloroethane at MW-11 is consistent with historical results. No data have been qualified due to this RPD exceedance.

Sediment Samples

A sediment sample and duplicate were collected from the south and east ditch. One rinse blank also was collected and a trip blank was analyzed for volatile organic compounds only. Samples were analyzed for volatile organic compounds (VOCs) by SW-846 Method 8260C and semi-volatile organic compounds (SVOCs) by SW-846 Method 8270D.

MS/MSD samples were collected at the site, but because the MS/MSD designation was not identified on the sample labels and due to miscommunication with the laboratory, the MS/MSD samples were not used for QC and were analyzed instead as regular. Hence, the Accutest analytical report includes four sample analyses and the MS/MSD sample used was not a site-specific sample.

Duplicate sample results are compared to original sample results on the attached summary table (Table C1) and the relative percent difference (RPD) was calculated for each set of quantified results. Calculable RPD values between the original and duplicate samples were less than 20 percent for all duplicate comparisons.

The sample receipt summary (included in the laboratory analytical report) indicates that sediment samples were received at the laboratory at a temperature of 3.3°C and all samples were adequately preserved.

Analysis of VOCs and SVOCs includes results that are below the RL but are above the MDL. These results are qualified with a "J" qualifier indicating that the result is an estimated value. The analytical results narrative provided by the laboratory specifies dilution factors used and deviations from QC protocols.

Volatile Organic Compounds

Samples were analyzed for VOCs by SW-846 Method 8260C. All analyses were performed within the required method holding time. All surrogate and blank spike recoveries were compliant and there were no detections of target compounds reported in the method blank analyses.

As noted in the Accutest case narrative, the MS/MSD recoveries were outside of QC limits for several volatile organic compounds due to matrix interference. Method blanks results were all nondetect and blank spike recoveries were compliant, which supports the conclusion that the out-of-control MS/MSD recoveries were due to matrix interference. Since the MS/MSD

samples were not site specific, the QC results are not directly applicable to the Summit National samples. All sample results for volatile organic compounds were nondetect.

Semi-Volatile Organic Compounds

Samples were analyzed for SVOCs by SW-846 Method 8270D. All extractions and analyses were performed within the required method hold times. All surrogate and blank spike recoveries were compliant.

There was a detection of bis-2-Ethylhexyl phthalate in method blank OP83381-MB1 associated with analysis of the Rinse Blank. The method blank result (0.80 ug/L) was below the RL and the result for bis-2-Ethylhexyl phthalate in the Rinse Blank was nondetect to the MDL.

The RPD exceeded the QC limit for 2,4,5-Trichlorophenol for the MS/MSD analyses associated with the sediment samples. The RPD was 37 percent and the QC limit is 36 percent. The MS and MSD recoveries were compliant and 2,4,5-Trichlorophenol was not detected in the sediment samples.

Surface Water Samples

A surface water sample and duplicate were collected from the south and east ditch. One field blank was collected and a trip blank was analyzed for volatile organic compounds only. Samples were analyzed for volatile organic compounds (VOCs) by SW-846 Method 8260C and semi-volatile organic compounds (SVOCs) by SW-846 Method 8270D.

MS/MSD samples were collected at the site; however, because the MS/MSD designation was not identified on the sample labels and due to miscommunication with Accutest, the MS/MSD samples were not used for QC and were analyzed instead as regular samples. Hence, the Accutest analytical report includes for the surface water samples four sample analyses and the MS/MSD sample used was not a site-specific sample.

Duplicate sample results are compared to original sample results on the attached summary table (Table C1) and the relative percent difference (RPD) was calculated for each set of quantified results. Calculable RPD values between the original and duplicated samples were less than 20 percent for all duplicate comparisons.

The sample receipt summary (included in the laboratory analytical report) indicates that surface water samples were received at the laboratory at a temperature of 3.3°C and all samples were adequately preserved.

Analysis of VOCs and SVOCs includes results that are below the RL but are above the MDL. These results are qualified with a "J" qualifier indicating that the result is an estimated value. The analytical results narrative provided by the laboratory, Accutest, specifies dilution factors used and deviations from quality control (QC) protocols.

Volatile Organic Compounds

Samples were analyzed for VOCs by SW-846 Method 8260C. All analyses were performed within the required method holding time. All surrogate, blank spike and MS/MSD recoveries were compliant and there were no detections of target compounds reported in the method blank analyses.

Semi-Volatile Organic Compounds

Samples were analyzed for SVOCs by SW-846 Method 8270D. All extractions and analyses were performed within the required method hold times. All surrogate, blank spike and MS/MSD recoveries were compliant and there were no detections of target compounds reported in the method blank analyses.

The RPD for 4-Choroaniline exceeded the QC limit in the MS/MSD analyses associated with analysis of the surface water and field blank samples. The RPD was 54 percent and the QC

limit is 50 percent. MS/MSD recoveries were compliant and 4-Chloroaniline was not detected in the surface water samples or in the field blank.

Summary

The April 2015 annual monitoring event performed at the Site included collection of groundwater samples from 12 monitoring wells. A surface water sample and sediment sample also were collected from the south and east ditch. The appropriate number of duplicate samples, rinse blank and field blank samples, and MS/MSD samples were collected in accordance with the requirements specified in the QAPP. The MS/MSD surface water and sediment samples were not used by the laboratory for MS/MSD analyses because of a miscommunication with Accutest. The MS/MSD analyses associated with these samples are therefore not directly relevant to the sediment or surface water sample results. An additional MS/MSD labeling check has been devised to ensure that site specific MS/MSD samples are analyzed during all future sampling events. Trip blanks for VOC analyses were included in each cooler that contained samples for VOC analysis. No sample results were qualified and no data were rejected so completeness for the April 2015 groundwater monitoring event is 100 percent.

TABLE C1.
RELATIVE PERCENT DIFFERENCES OF QUANTIFIED RESULTS
SUMMIT NATIONAL SUPERFUND SITE

Location				
Parameter	**Units**	**Investigative Sample**	**Duplicate Sample**	**RPD[1]**
MW-107		GW-042115-EA-015	GW-042115-EA-016	
1,1,1-Trichloroethane	ug/L	27	ND[2]< 20	NC[3]
1,1-Dichloroethane	ug/L	1550	1560	0.6
1,2-Dichloroethane	ug/L	77.3	81.5	5.3
Acetone	ug/L	ND[2]< 100	ND[2]< 100	--
Benzene	ug/L	103	108	4.7
Chlorobenzene	ug/L	62.3	60.3	3.3
Chloroethane	ug/L	20.4	J[4] 18.1	11.9
cis-1,2-Dichloroethene	ug/L	45.1	54.8	19.4
Ethylbenzene	ug/L	1220	1230	0.8
Toluene	ug/L	3960	3940	0.5
trans-1,2-Dichloroethene	ug/L	ND[2]< 20	ND[2]< 20	--
Trichloroethene	ug/L	ND[2]< 20	ND[2]< 20	--
Vinyl chloride	ug/L	55.4	60.1	8.1
Xylene (total)	ug/L	4140	4200	1.4
MW-111		GW-050614-EA-028	GW-050714-EA-034	
1,1,1-Trichloroethane	ug/L	< 1	< 1	--
1,1-Dichloroethane	ug/L	34.5	34.6	0.3
1,2-Dichloroethane	ug/L	131	133	1.5
Acetone	ug/L	< 5	< 5	--
Benzene	ug/L	< 0.5	< 0.5	--
Chlorobenzene	ug/L	< 1	< 1	--
Chloroethane	ug/L	1.6	1.5	6.5
cis-1,2-Dichloroethene	ug/L	7.2	7.3	1.4
Ethylbenzene	ug/L	< 1	< 1	--
Toluene	ug/L	< 1	< 1	--
trans-1,2-Dichloroethene	ug/L	< 1	< 1	--
Trichloroethene	ug/L	< 1	< 1	--
Vinyl chloride	ug/L	8.4	8.9	5.8
Xylene (total)	ug/L	J 0.2	J 0.19	0.2

Notes:

[1] RPD - Relative Percent Difference

[2] ND - Non-Detect

[3] NC - Not Calculable

[4] Estimated result less than the practical quantitation limit and greater than the method detection limit.

APPENDIX D.

HISTORICAL GROUNDWATER QUALITY AND WATER-LEVEL ELEVATION DATA

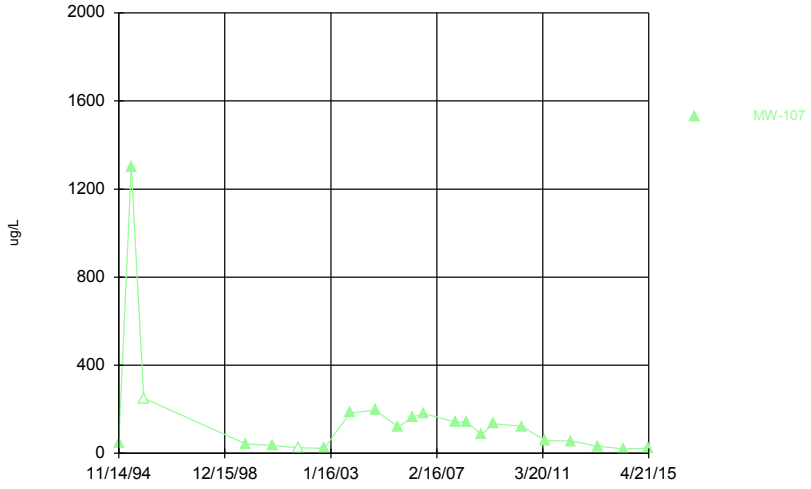
APPENDIX E.

TIME-SERIES PLOTS OF WATER-QUALITY DATA, ANNUAL MONITORING WELLS

WATER TABLE UNIT WELLS

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

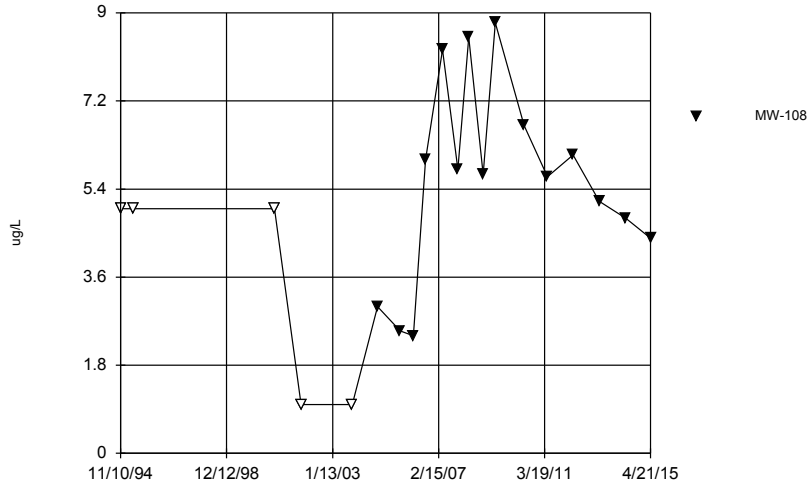
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

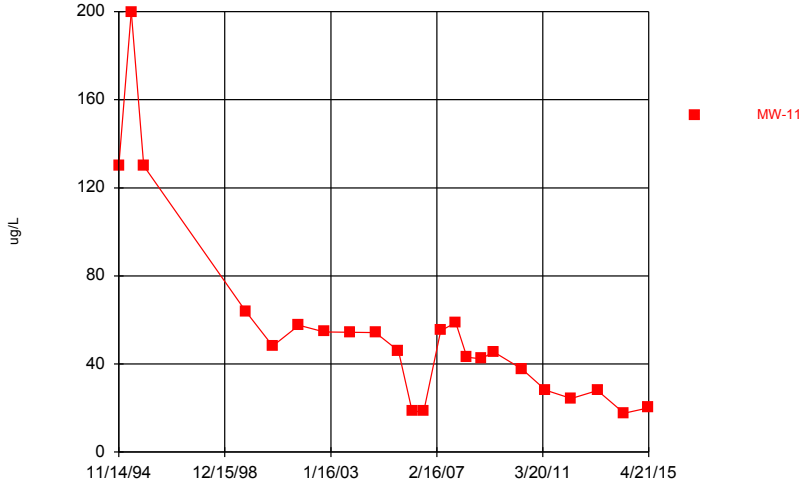
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG

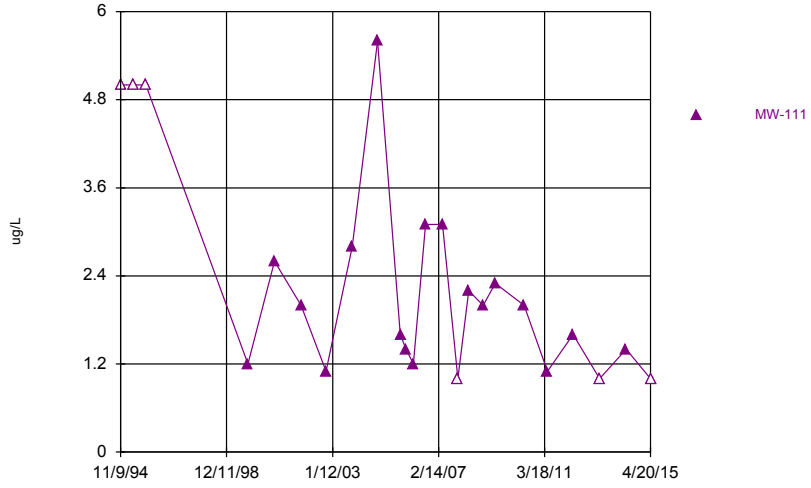
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

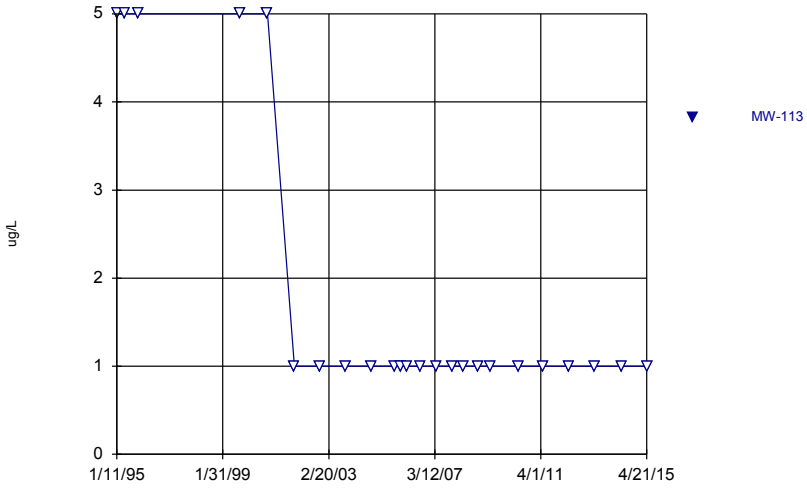
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

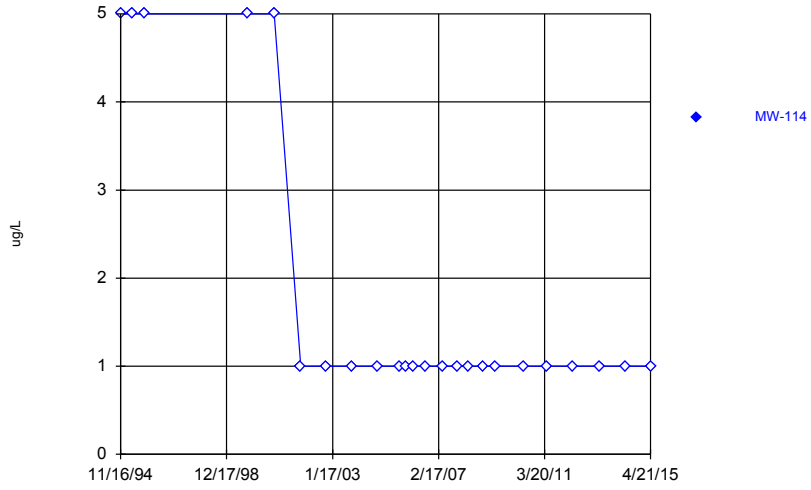
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

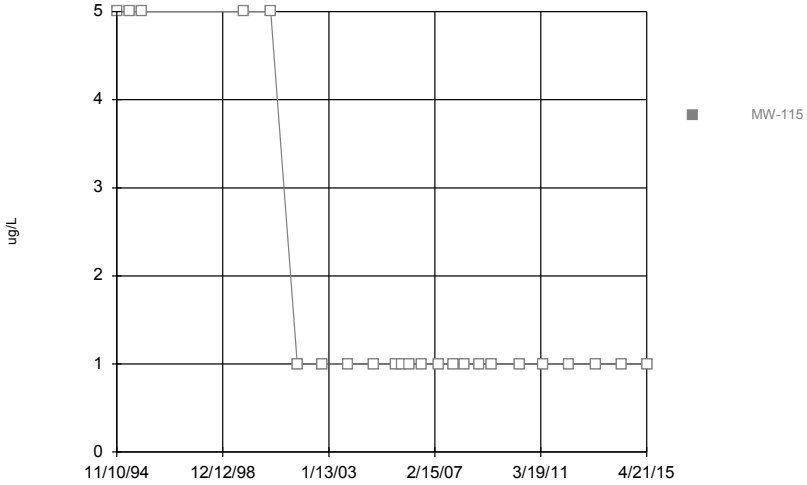
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

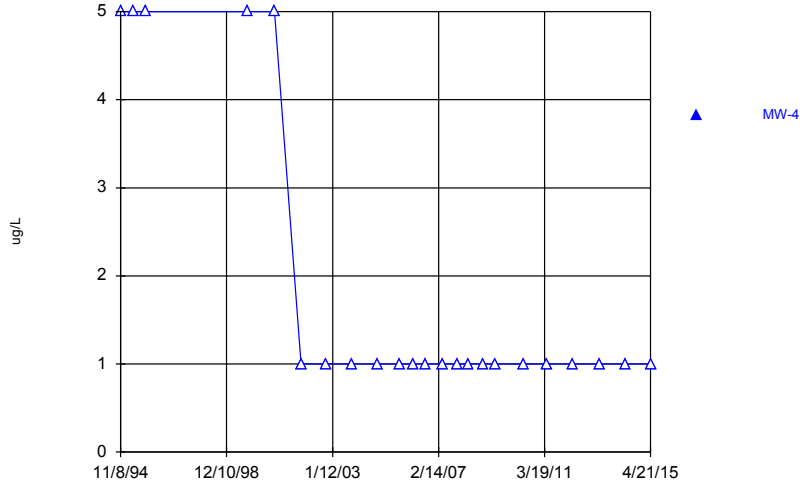
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

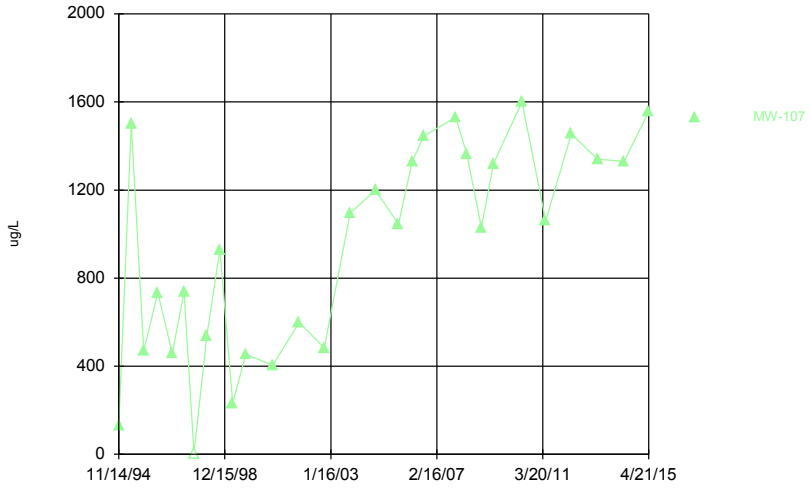
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

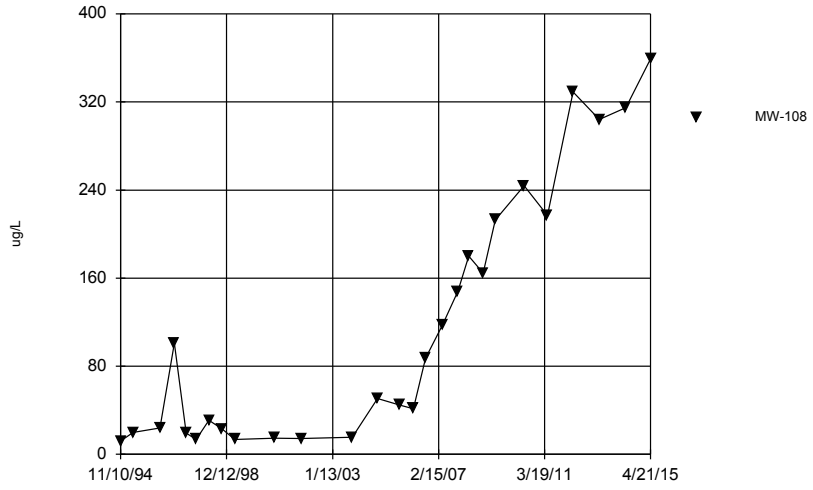
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG

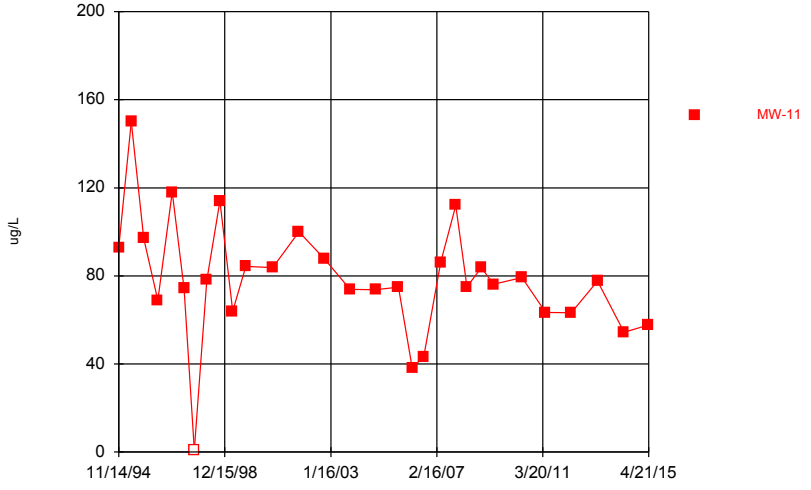
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

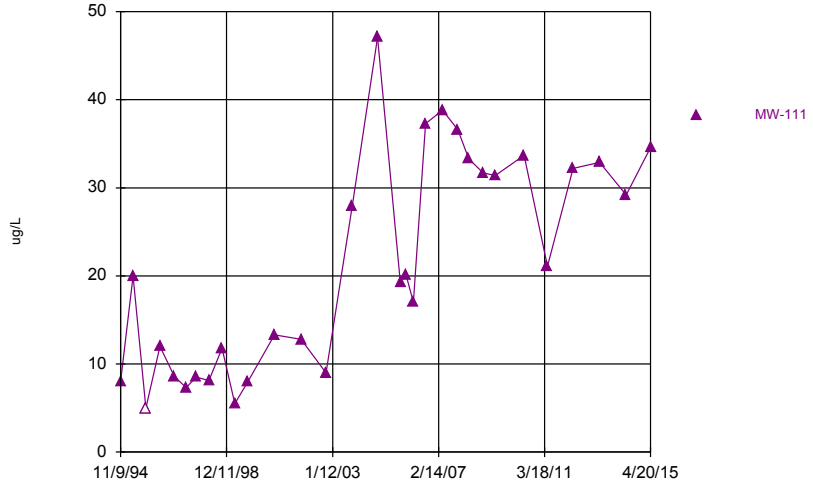
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

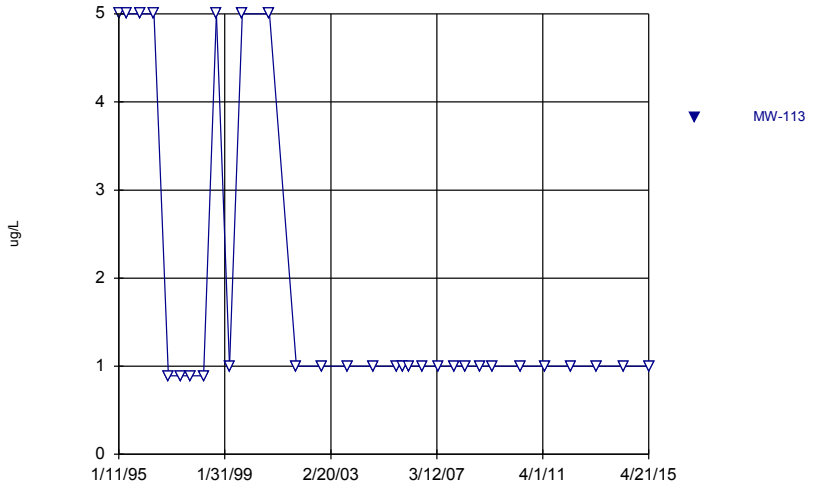
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

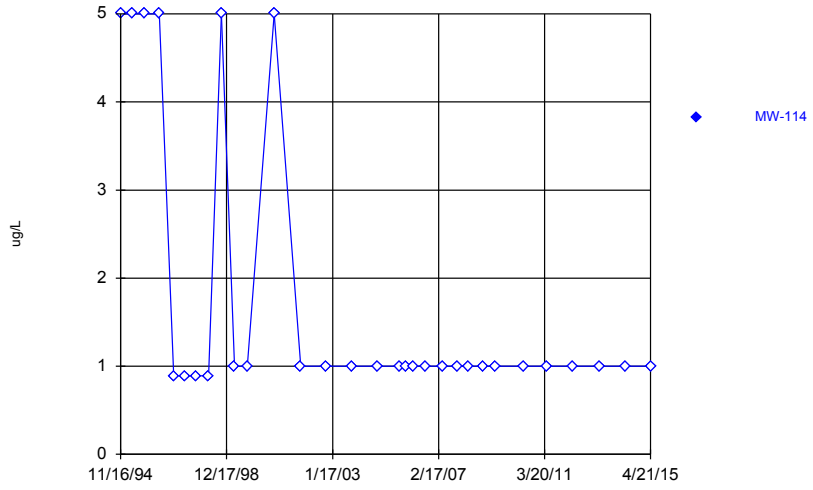
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

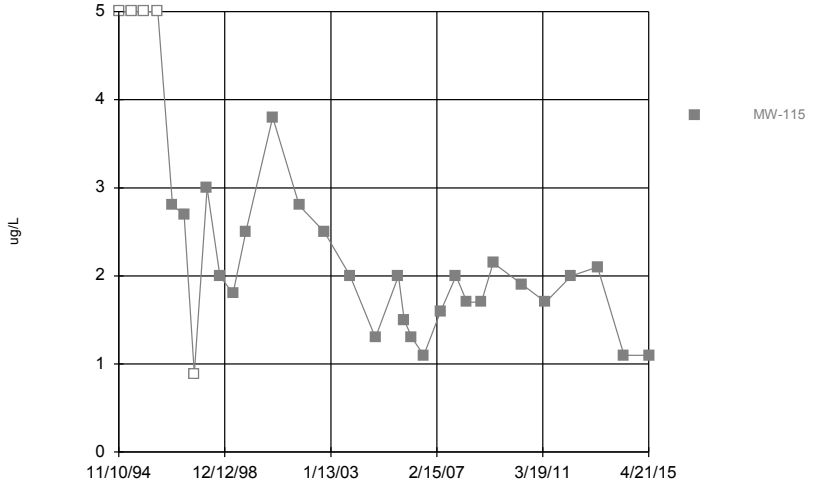
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

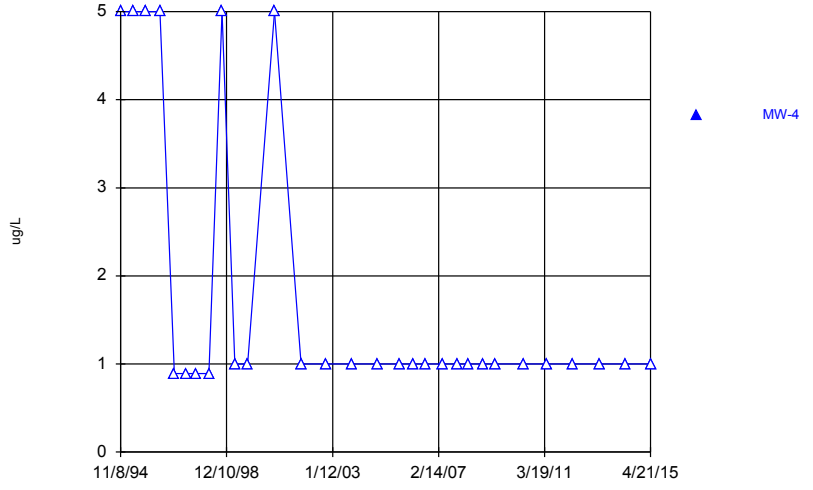
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

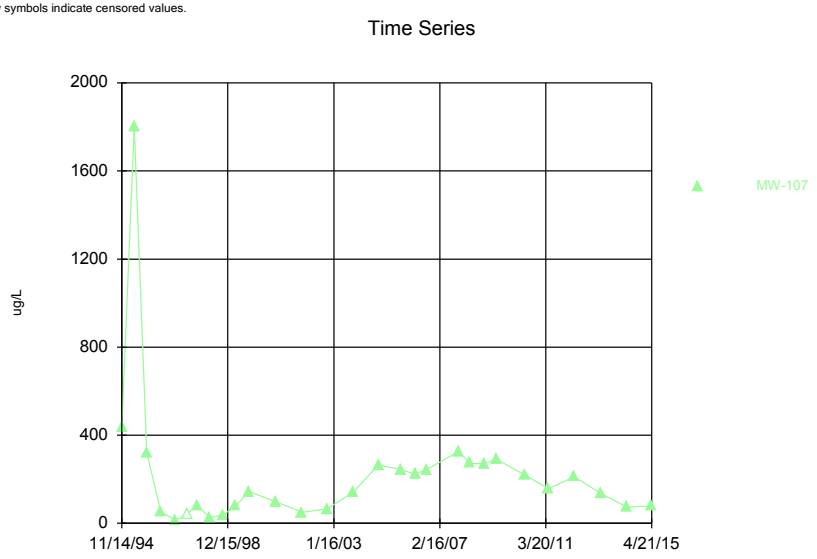
Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



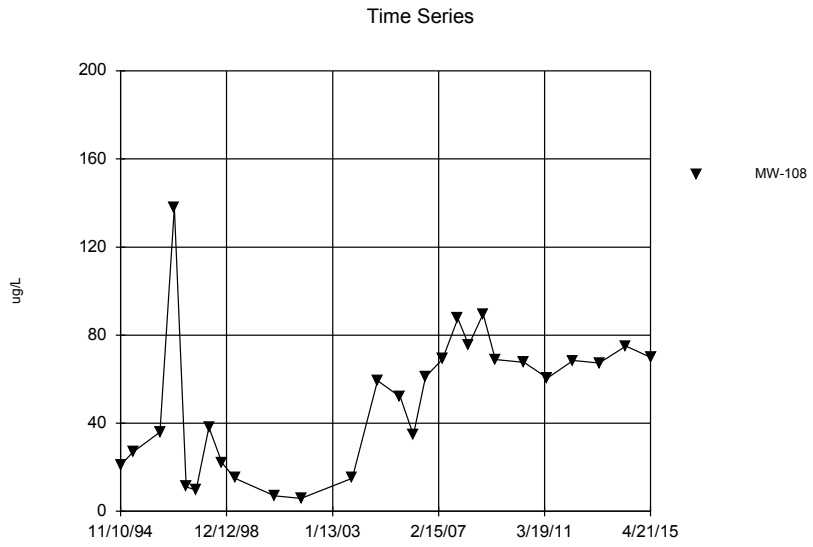
Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.



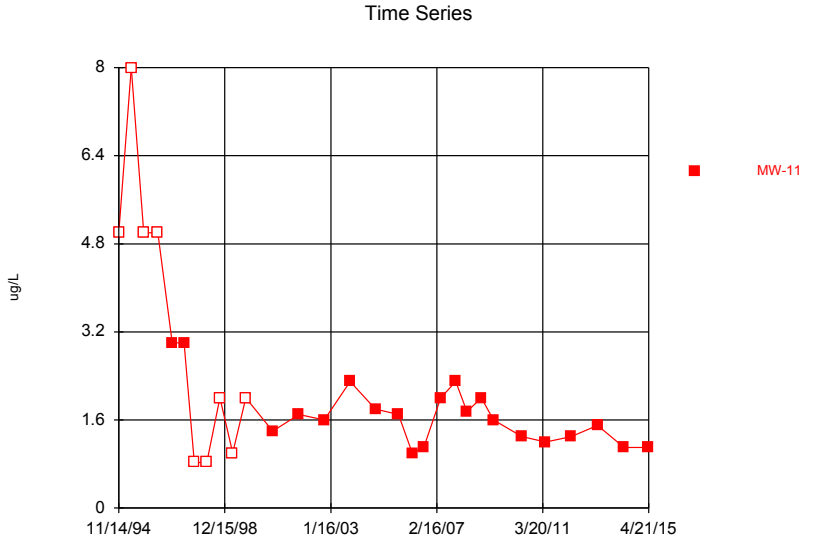
Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG



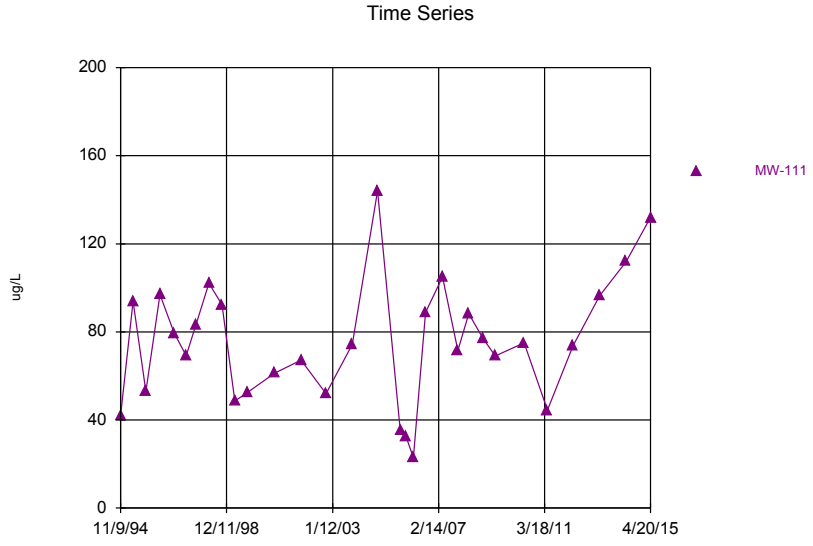
Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

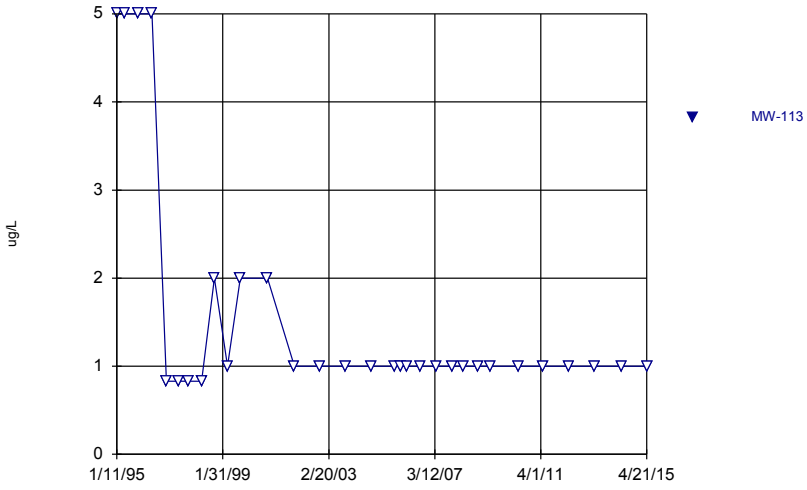
Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

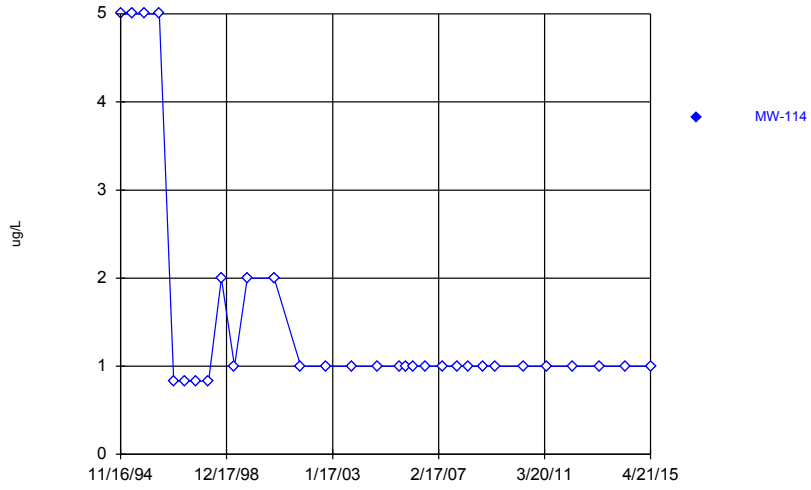
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

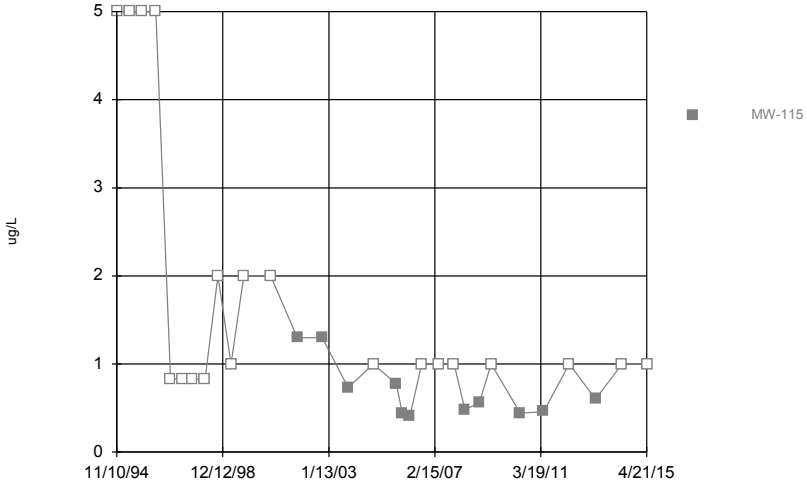
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

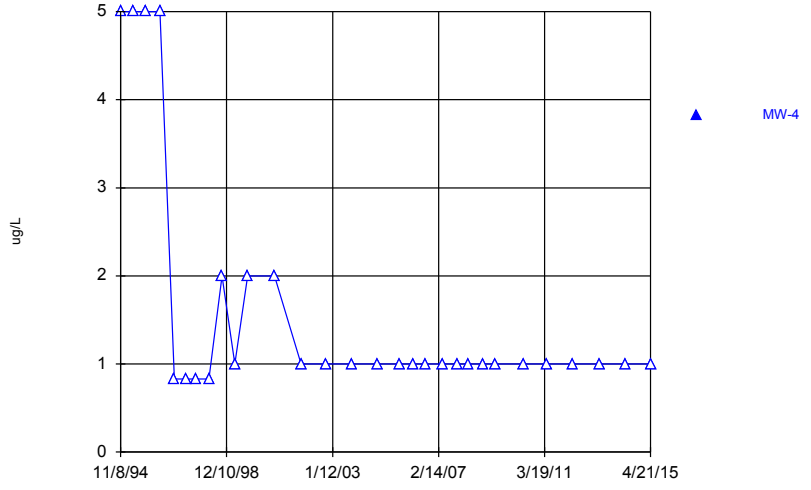
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

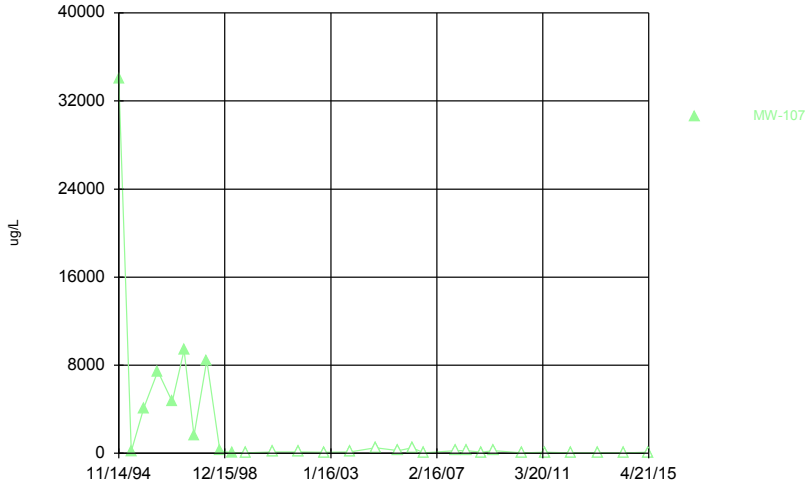
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

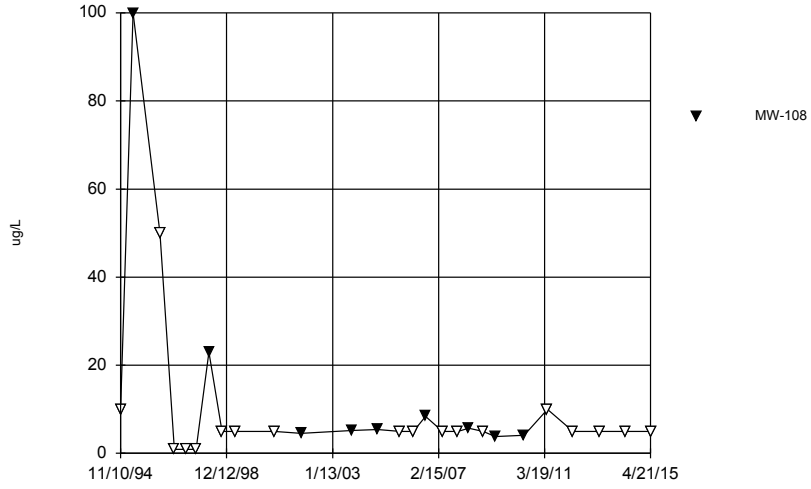
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

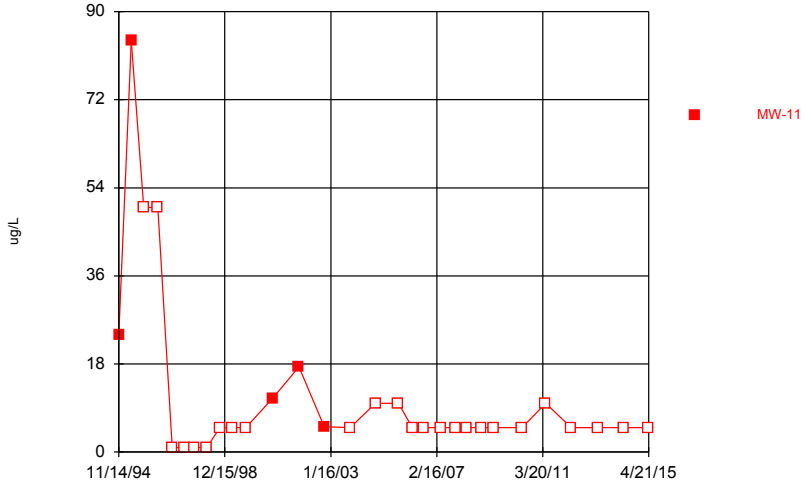
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

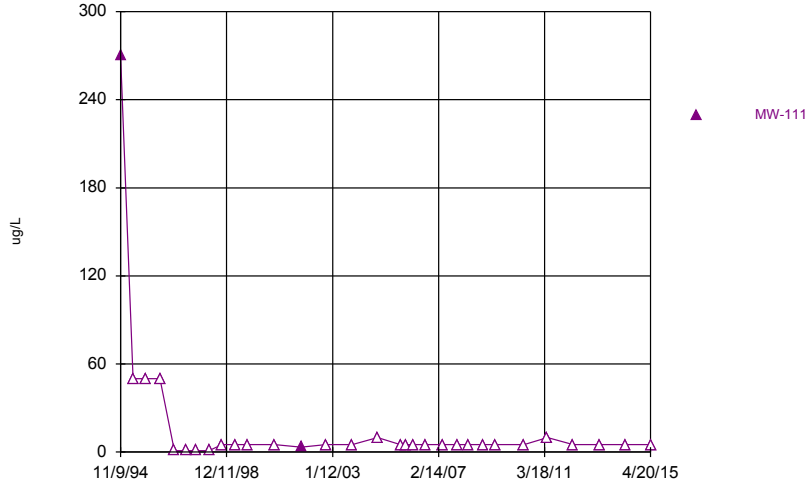
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

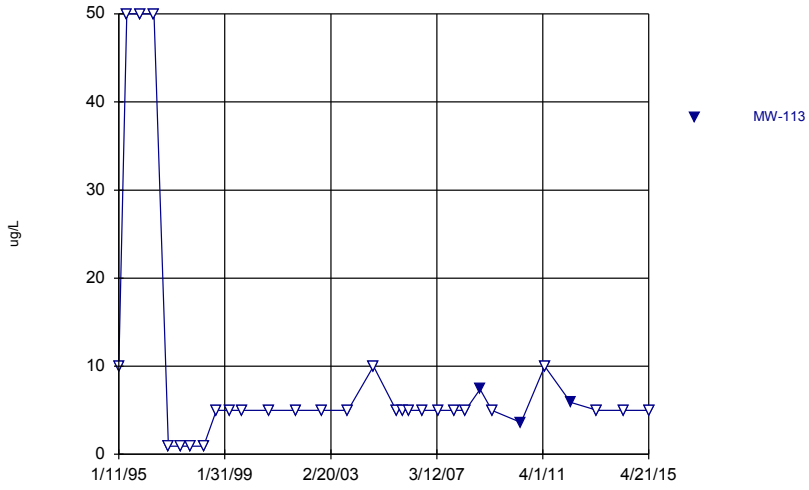
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

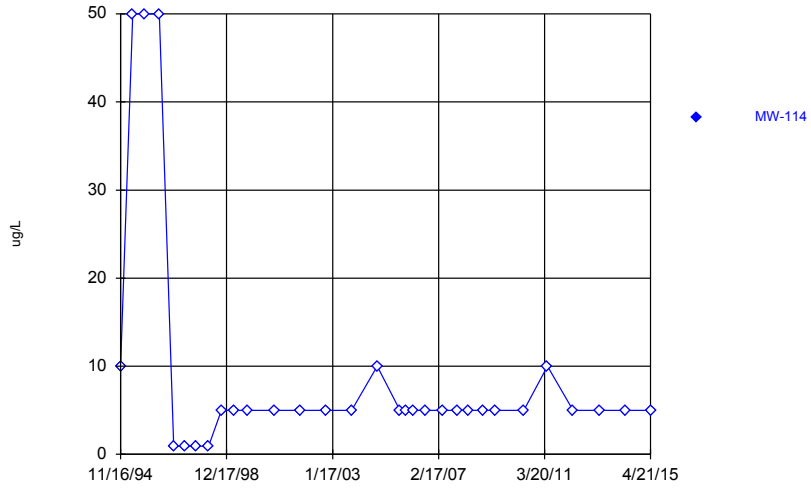
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

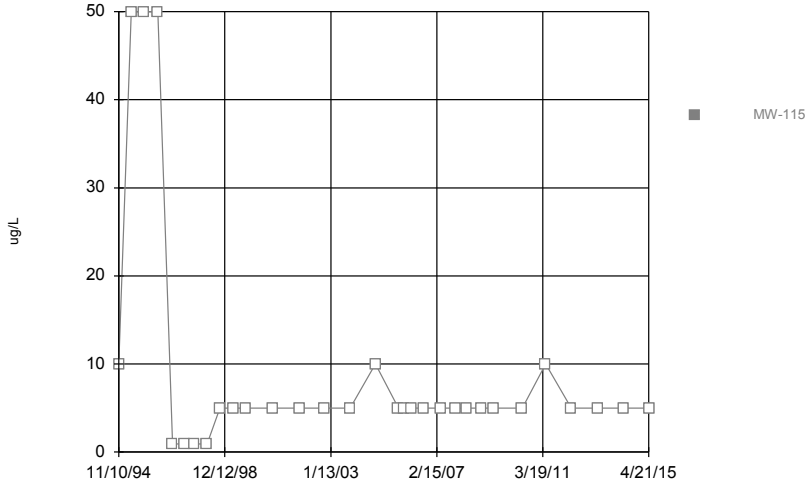
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

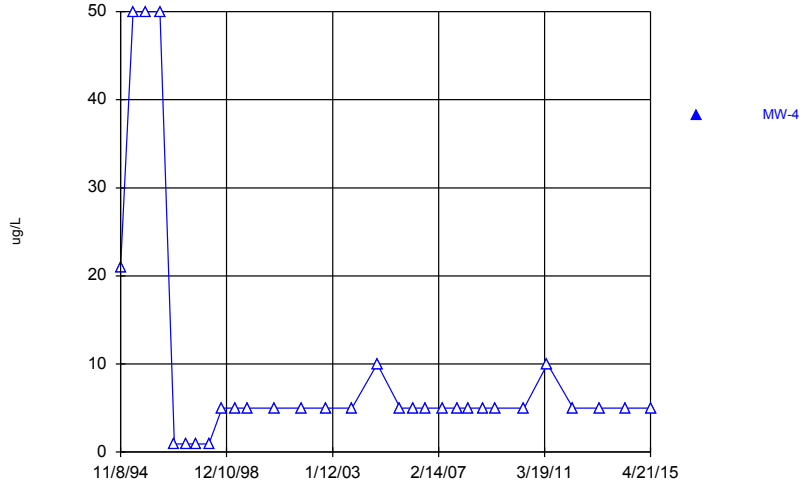
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

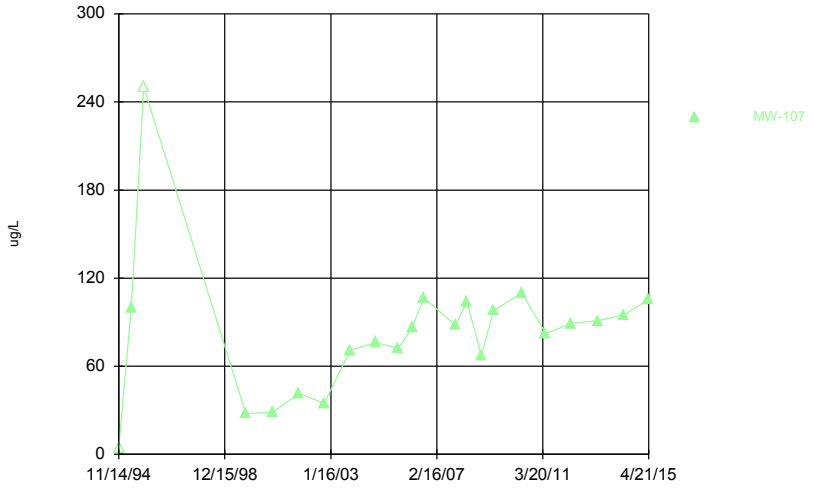
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

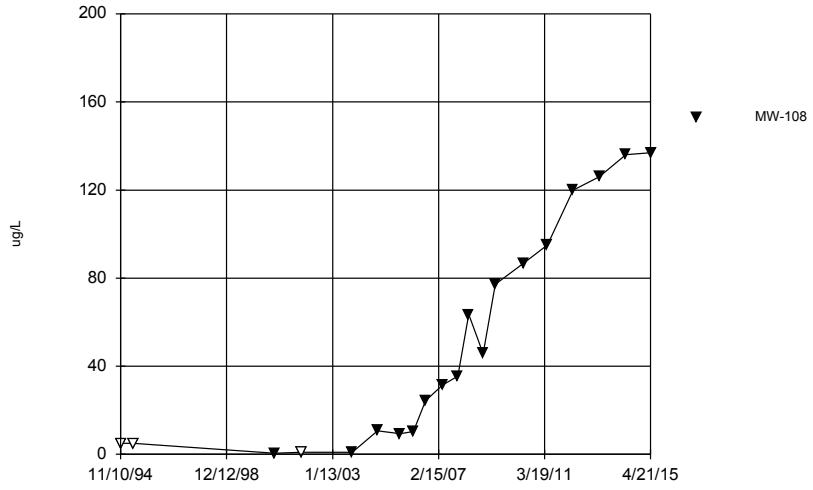
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

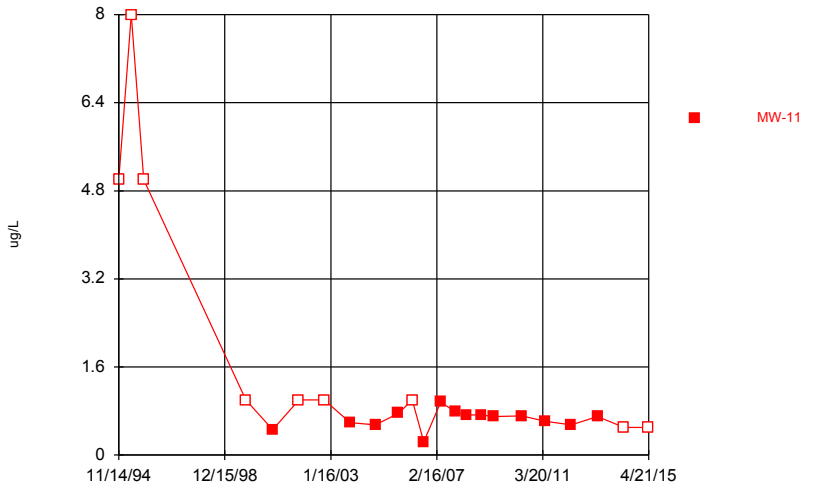
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

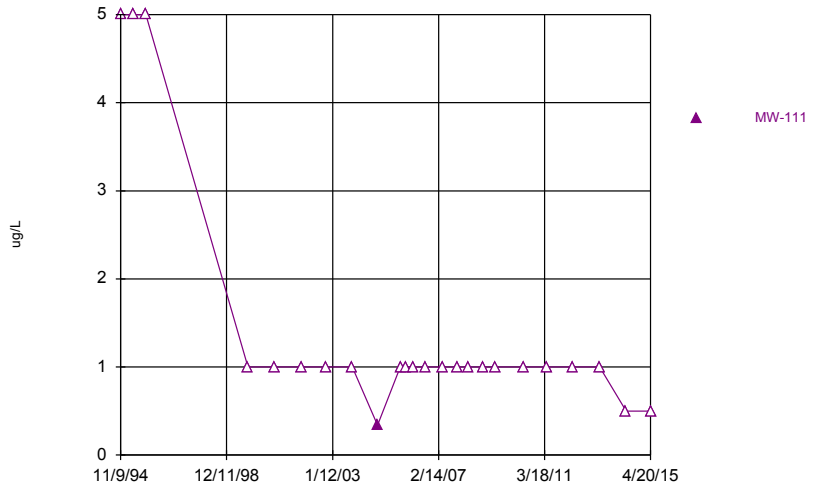
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

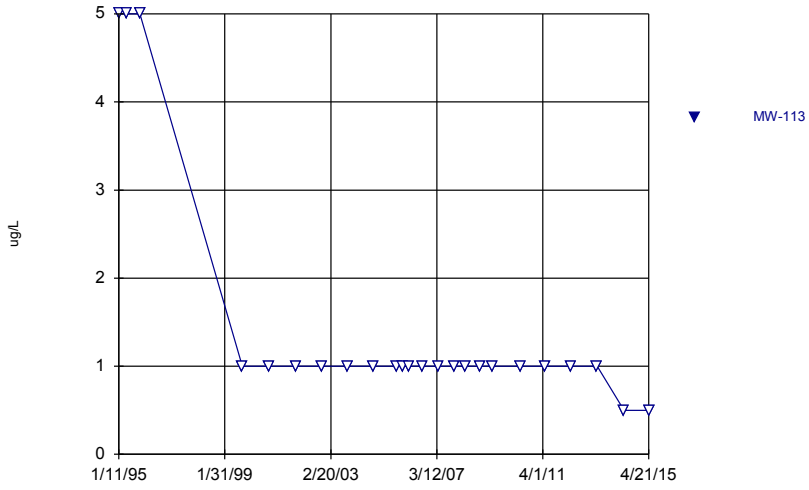
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

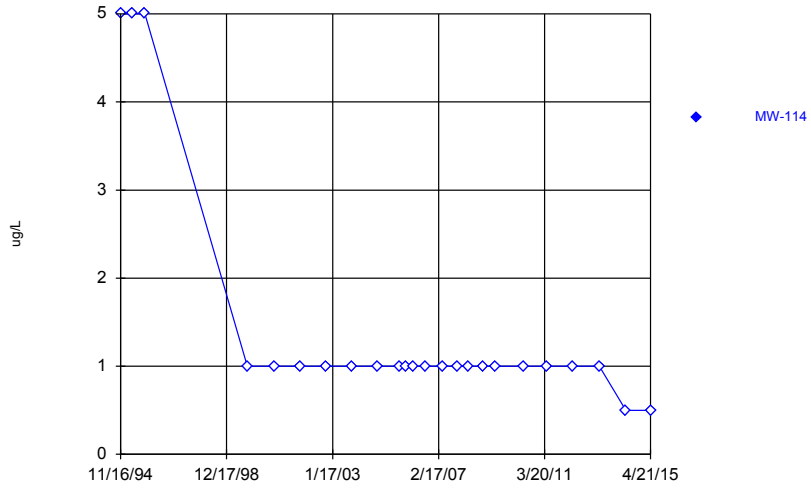
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

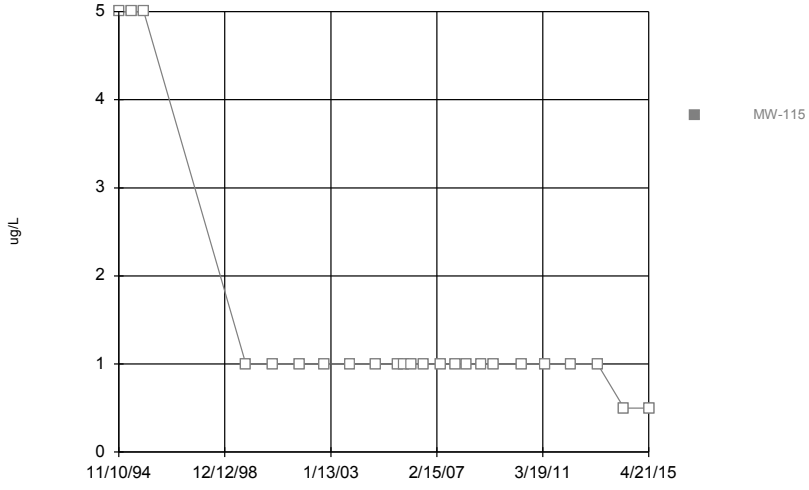
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

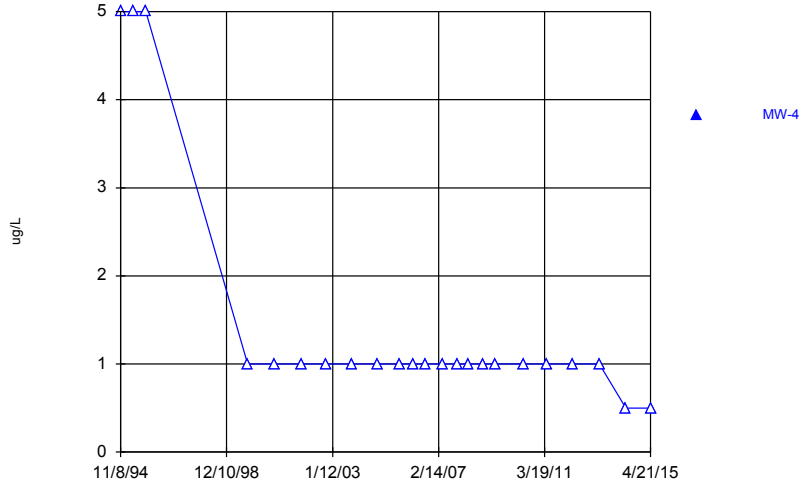
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

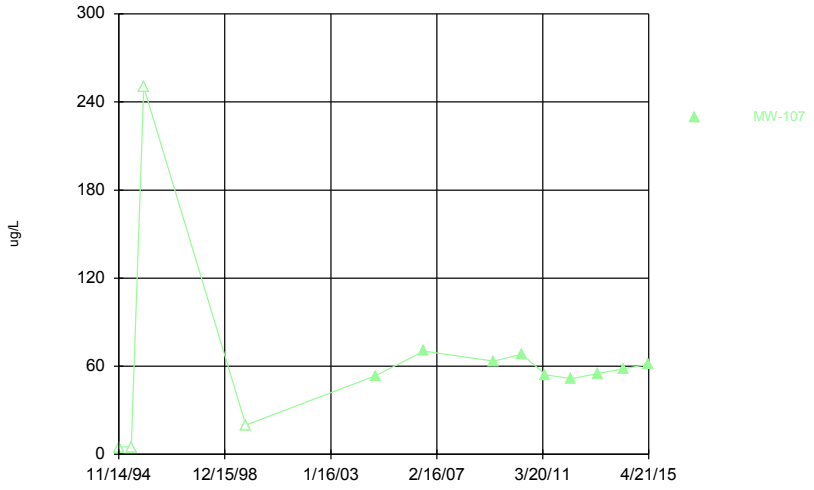
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

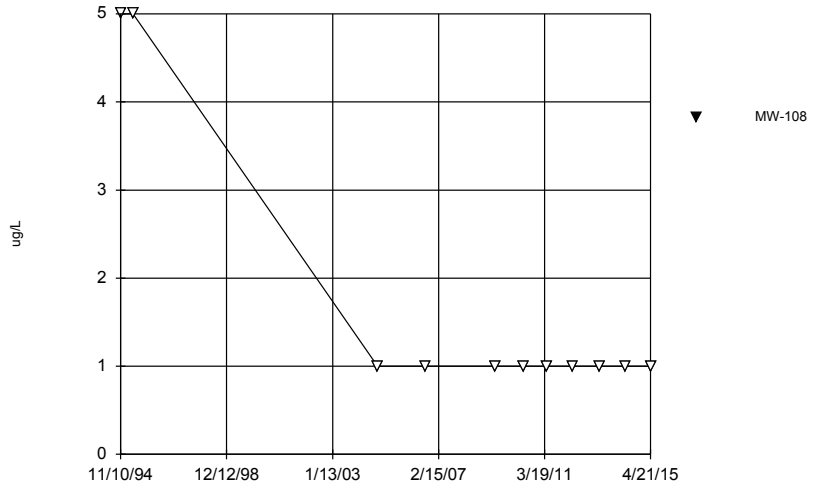
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

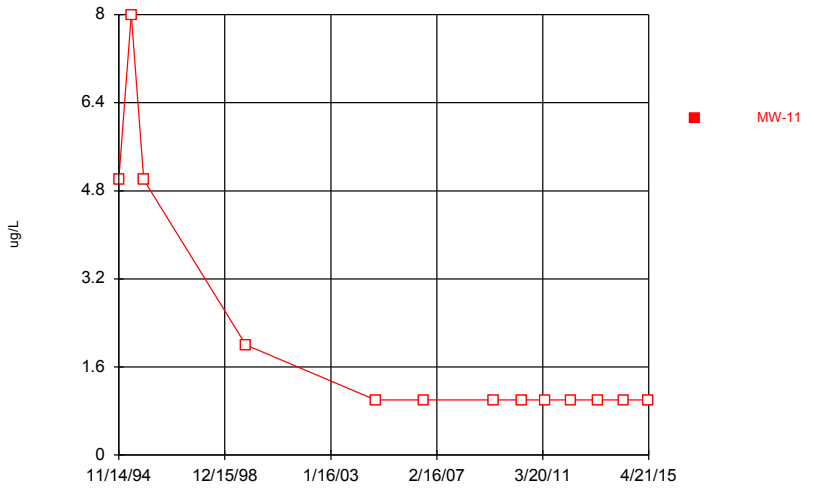
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

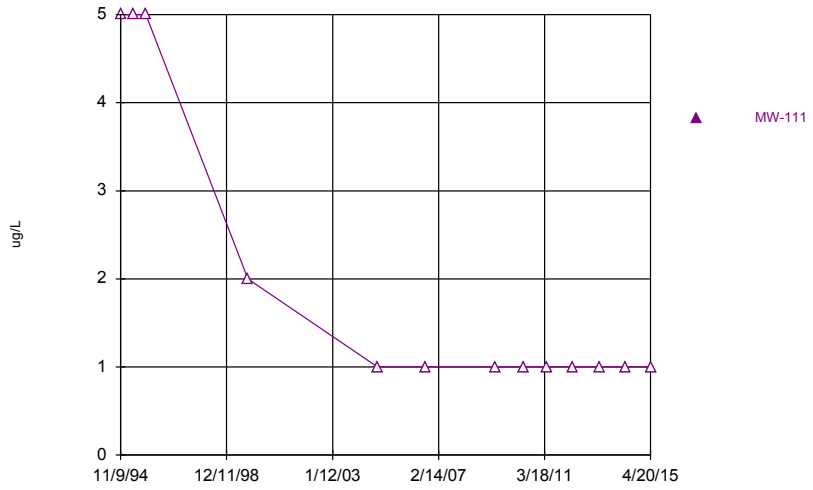
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

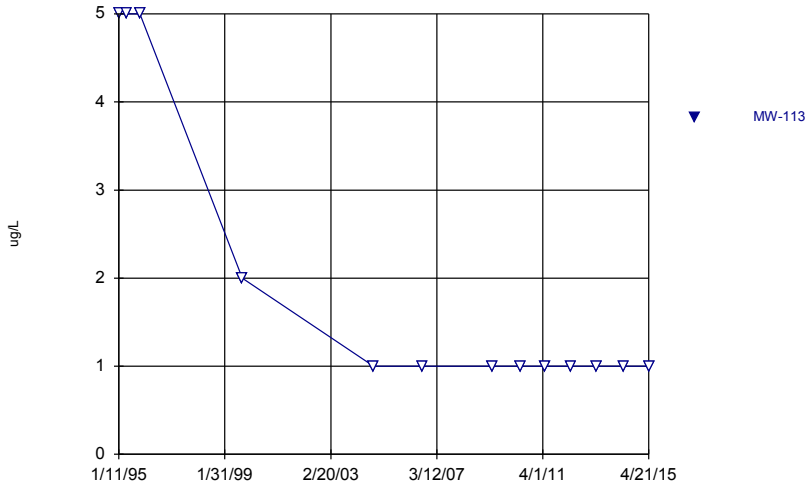
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:25 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

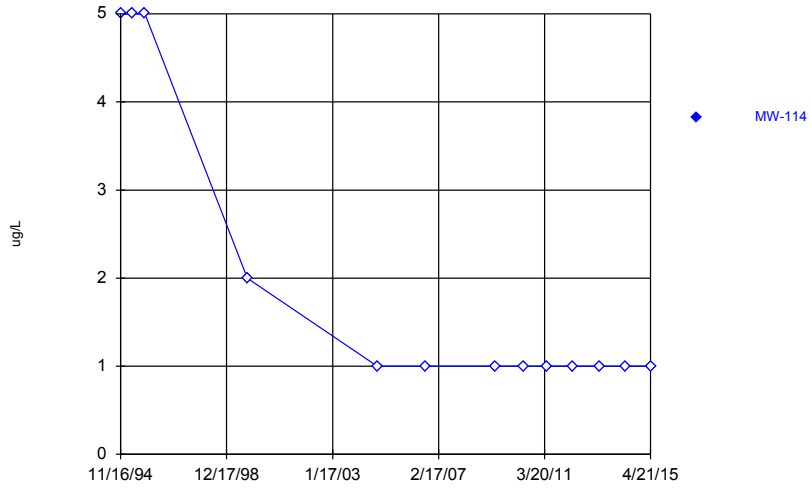
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

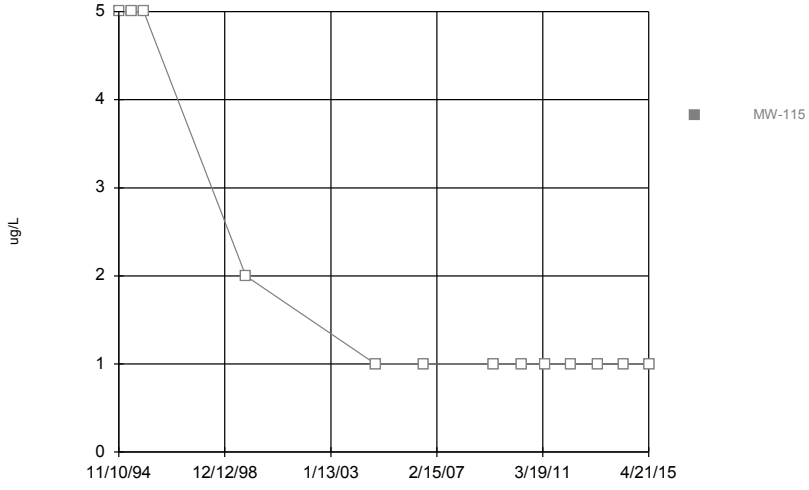
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

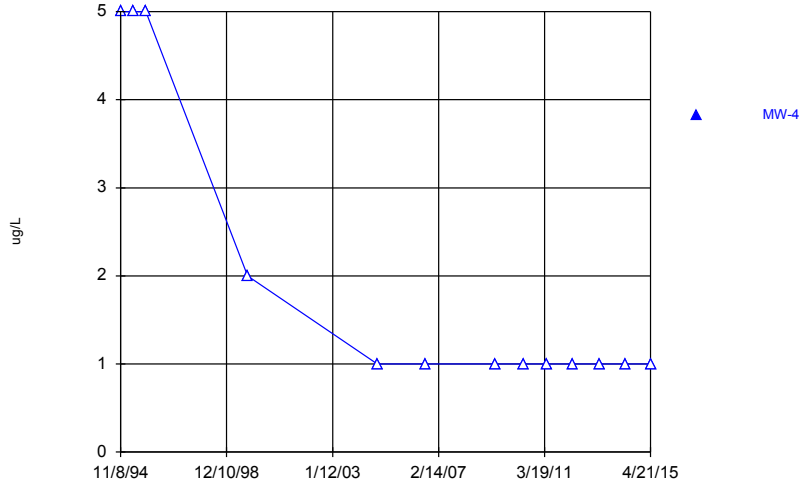
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

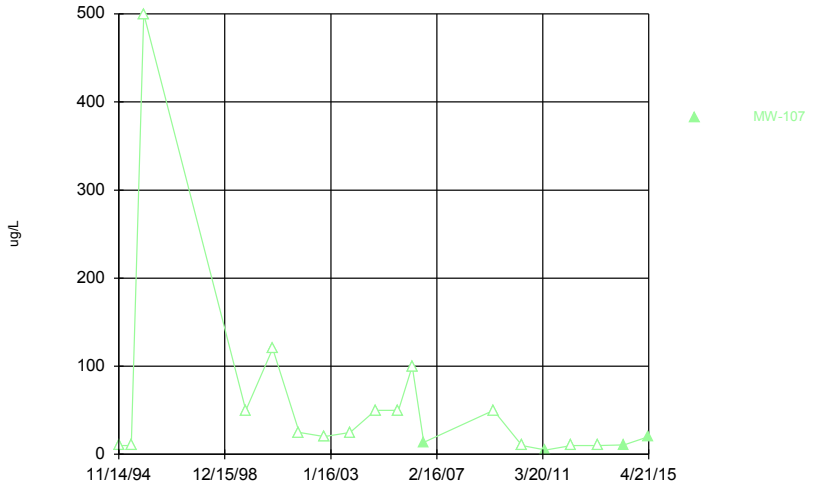
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

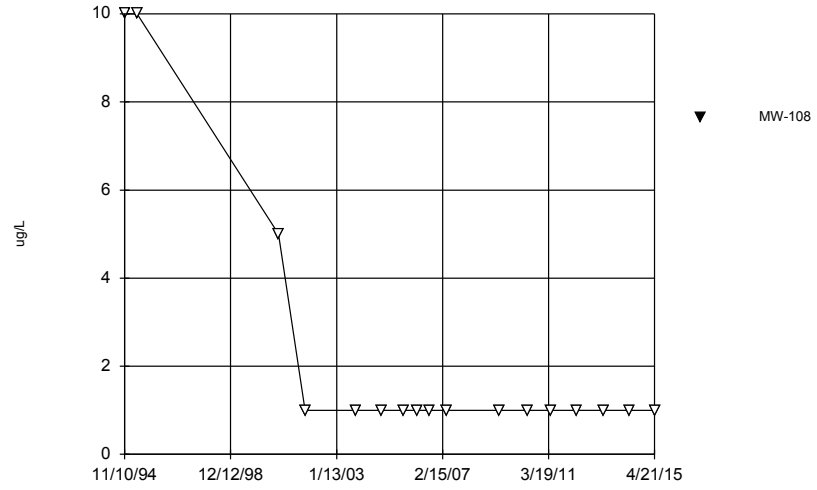
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

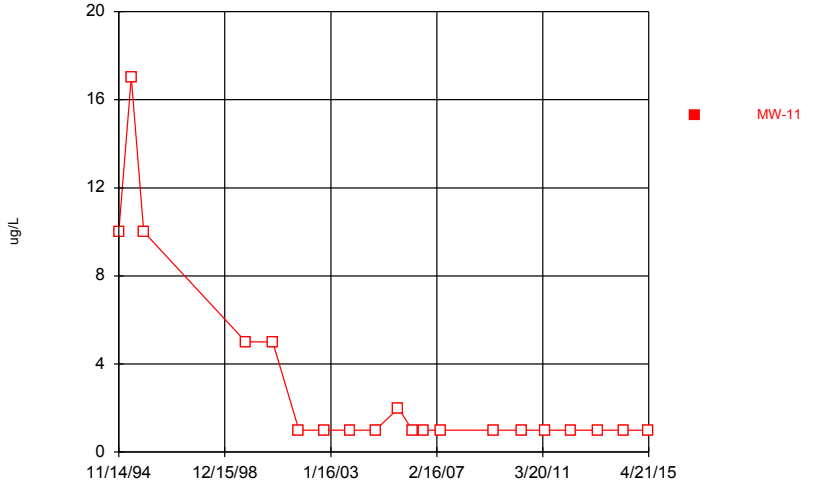
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

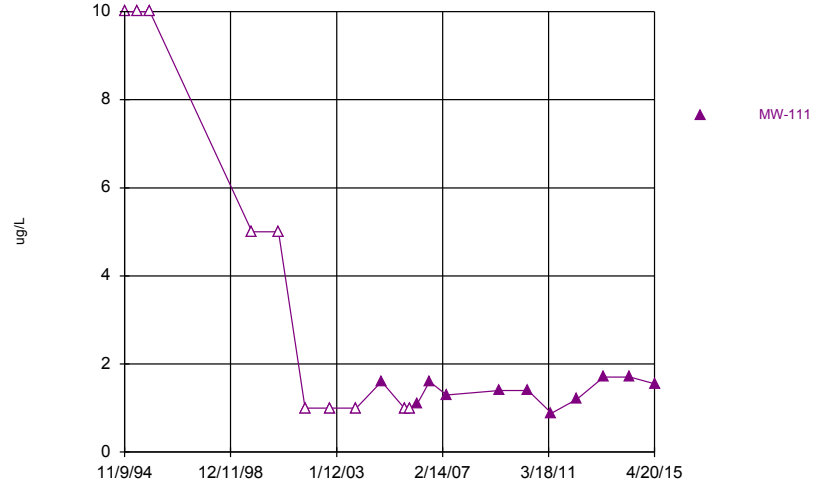
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

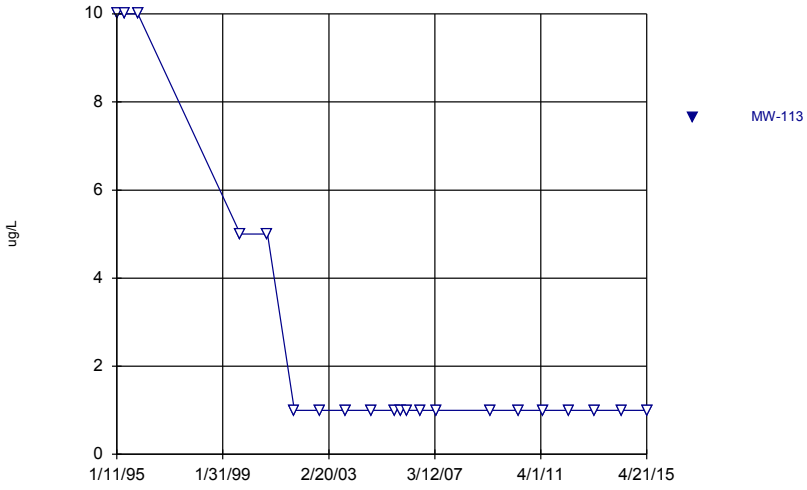
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

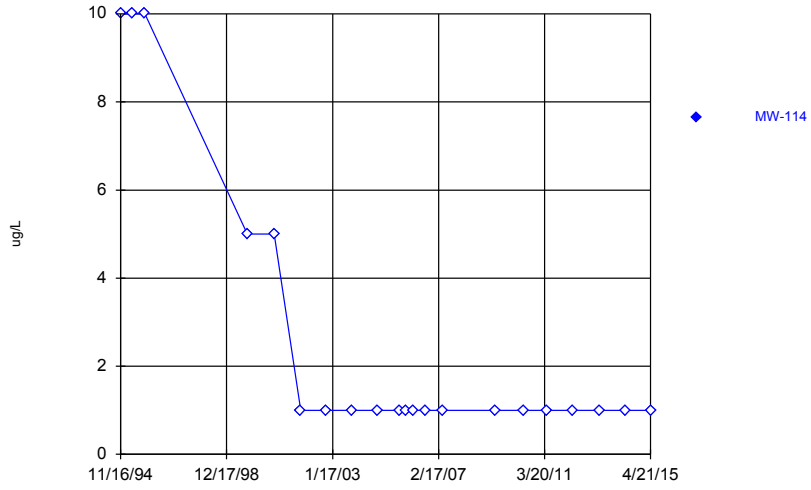
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

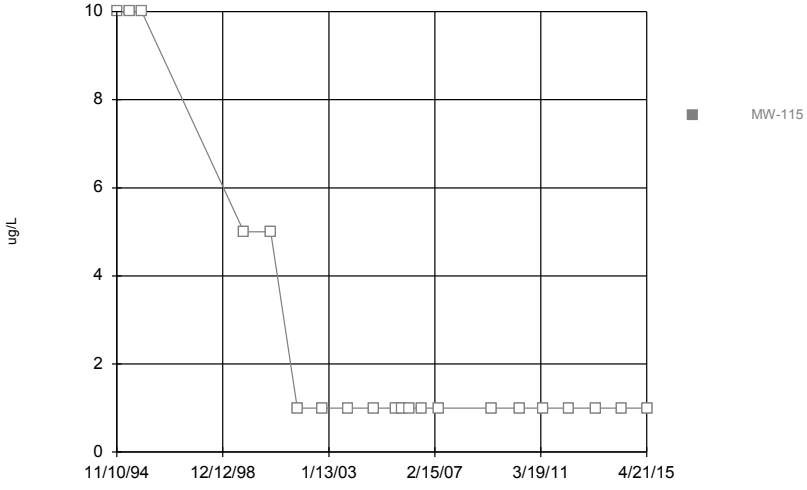
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

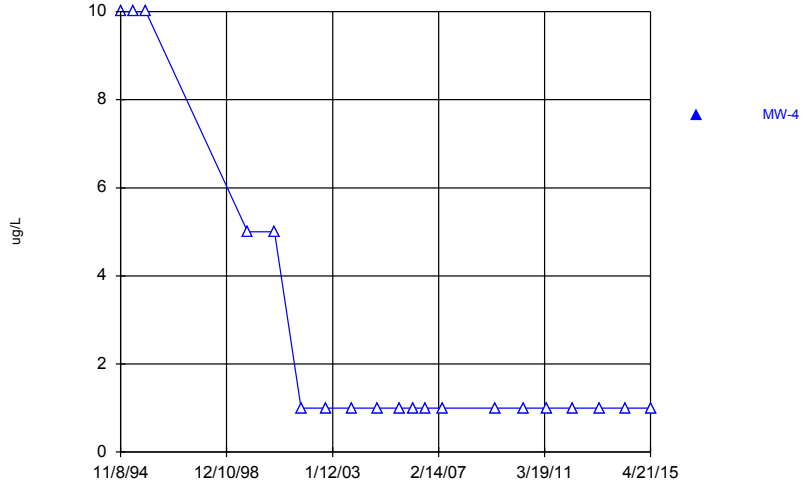
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

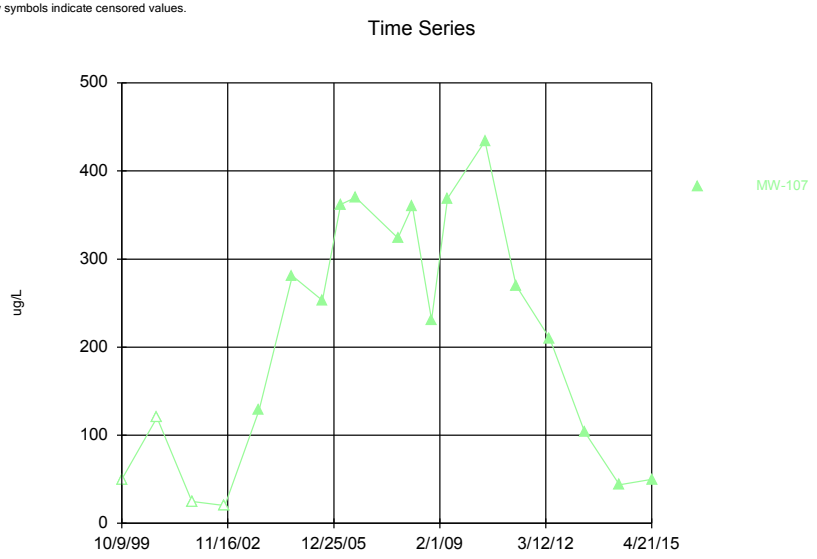
Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



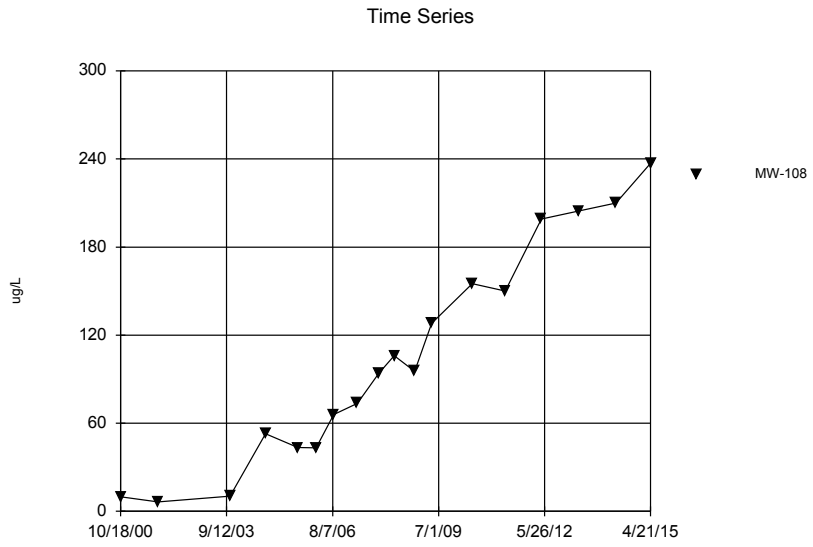
Constituent: Chloroethane Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.



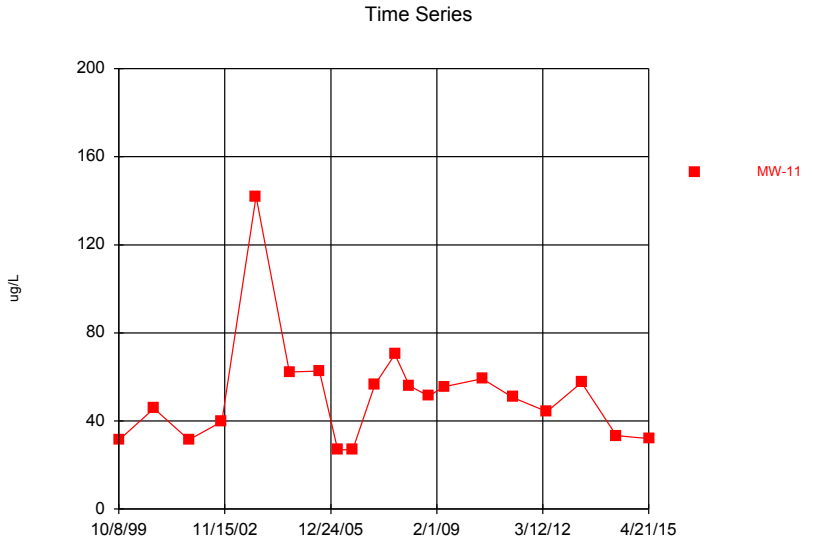
Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG



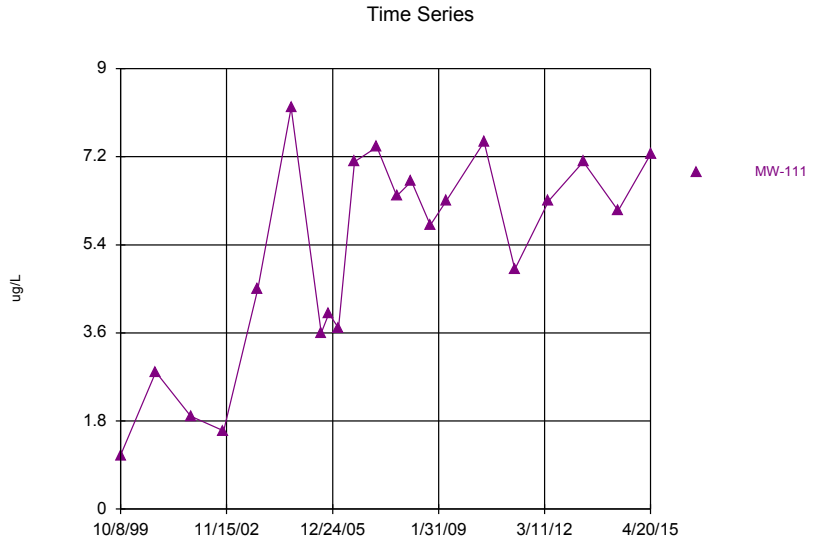
Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

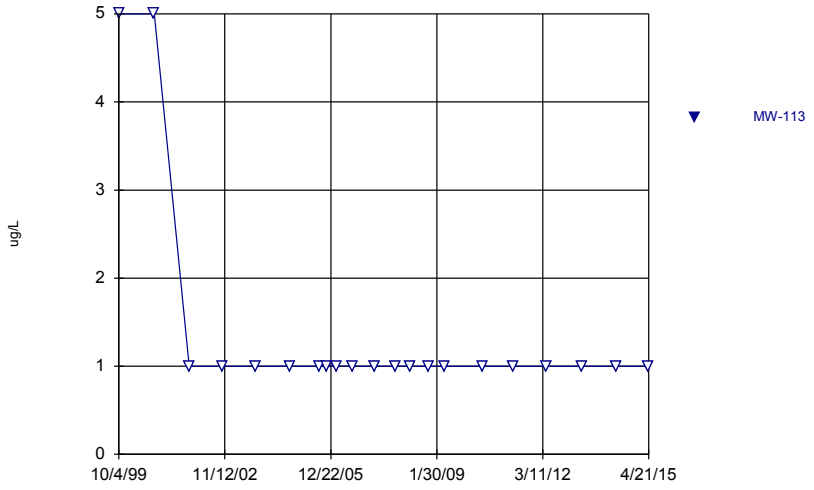
Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

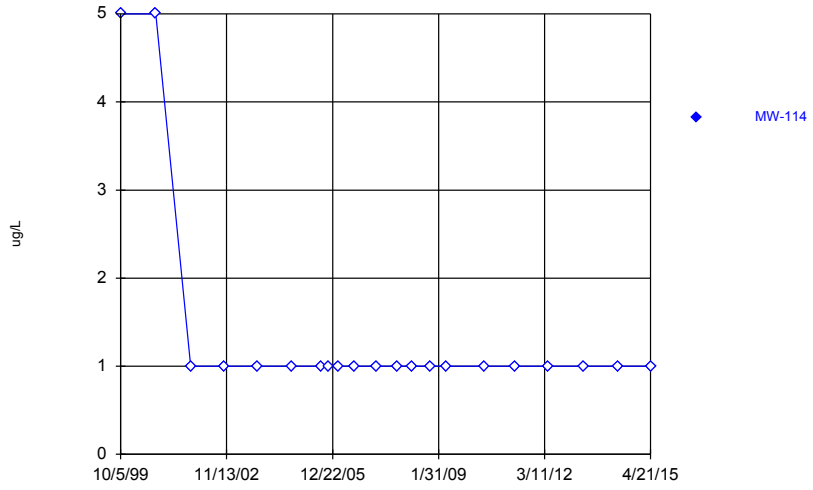
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

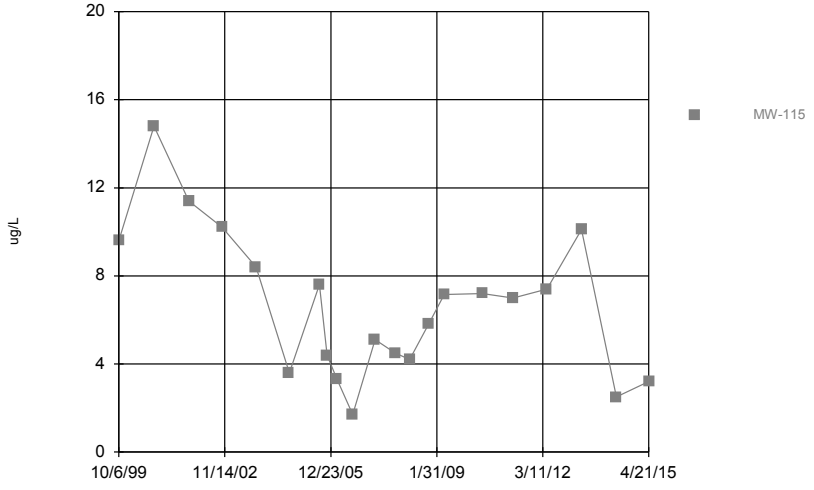
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG

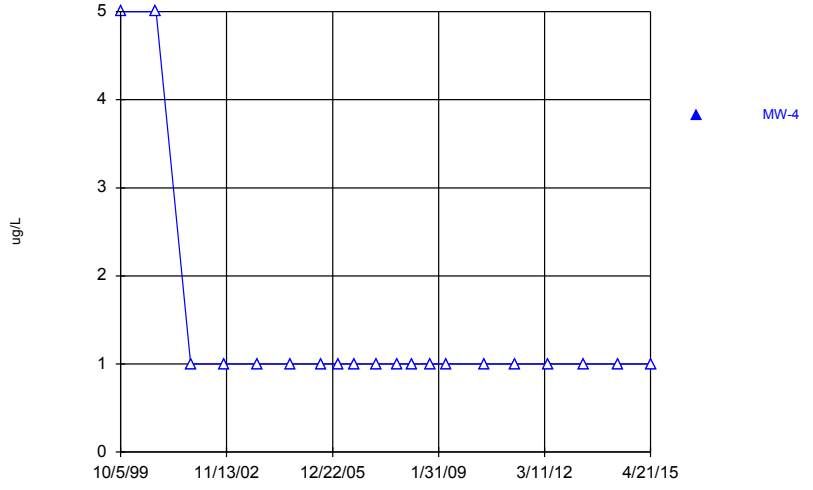
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

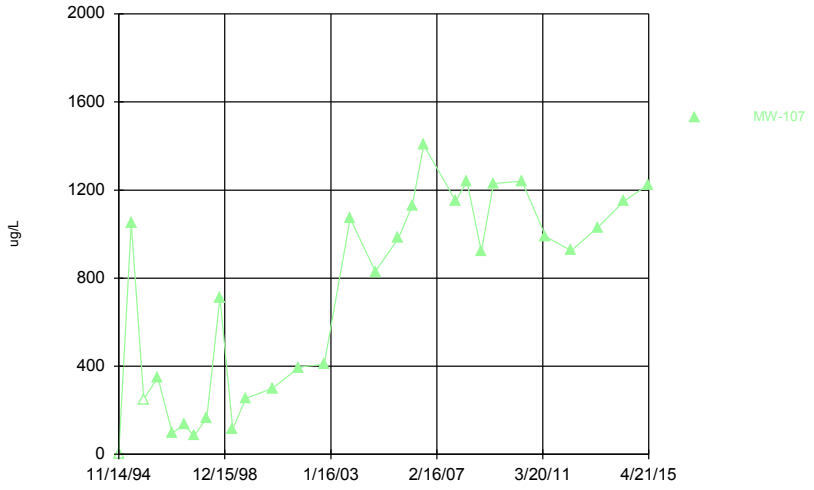
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

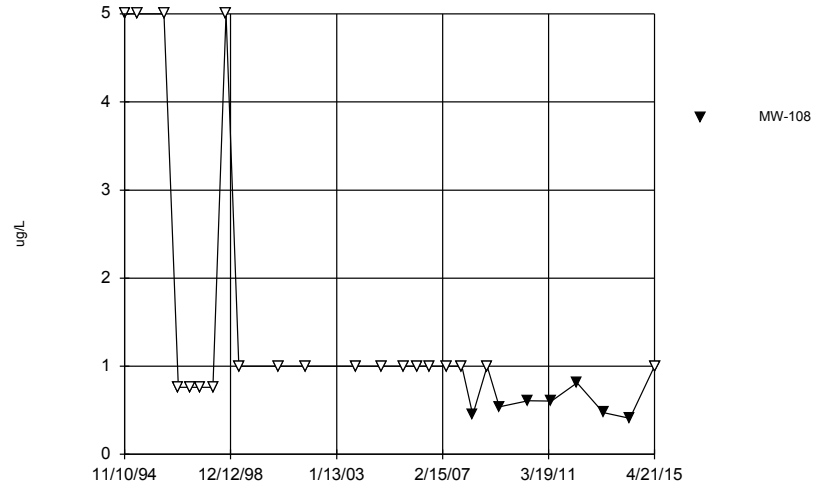
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

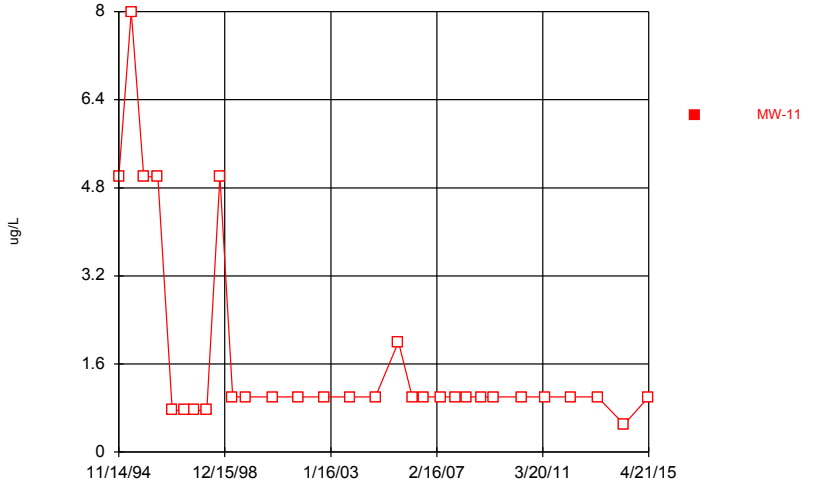
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

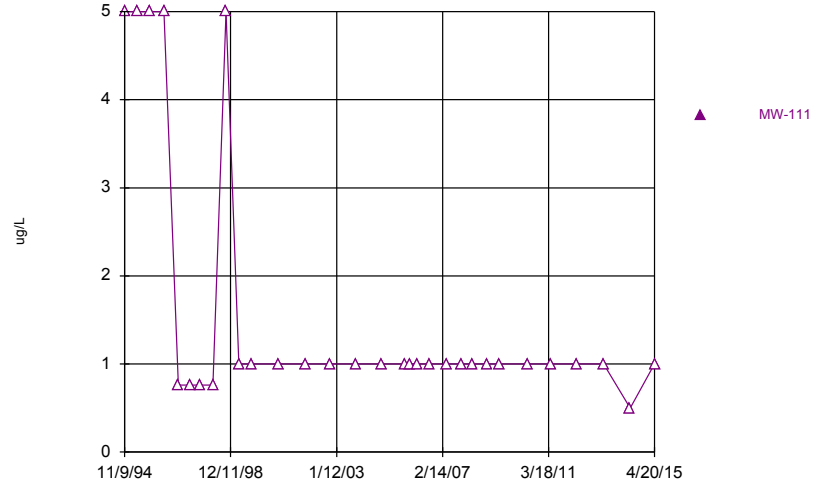
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

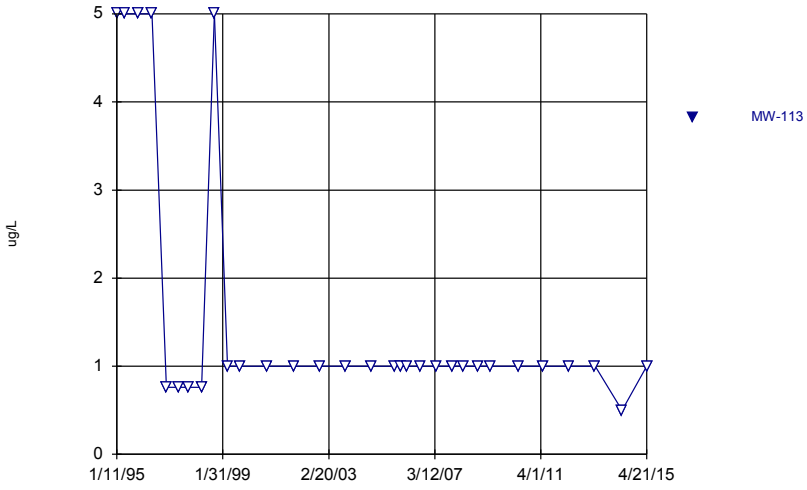
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

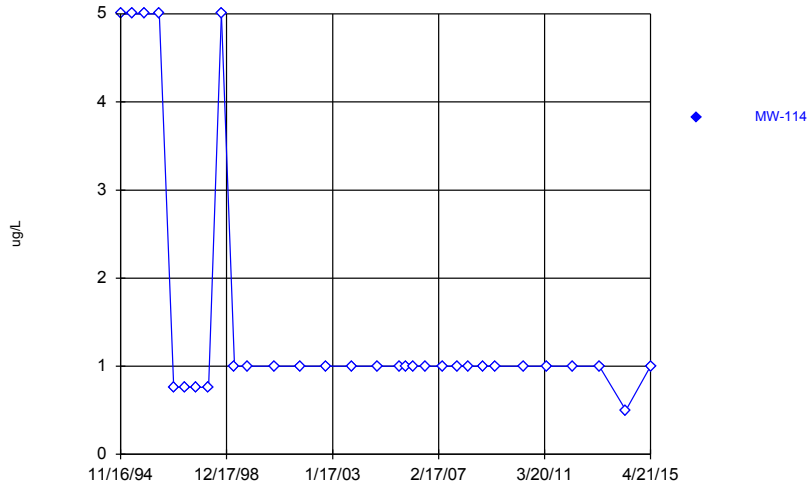
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

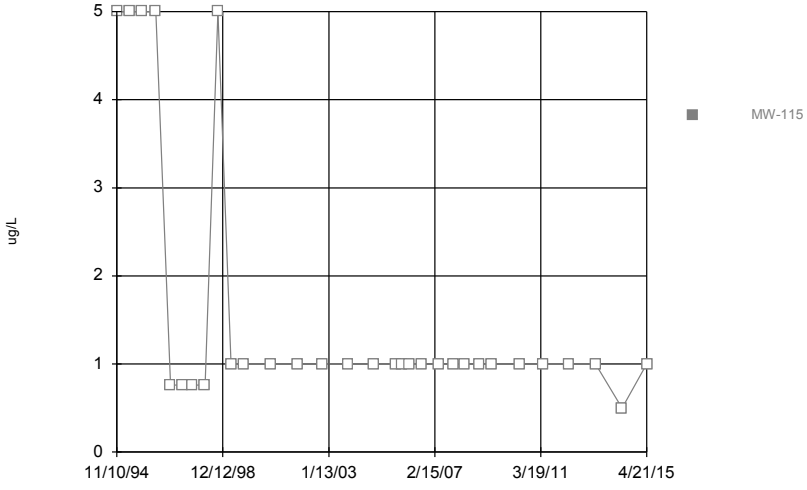
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

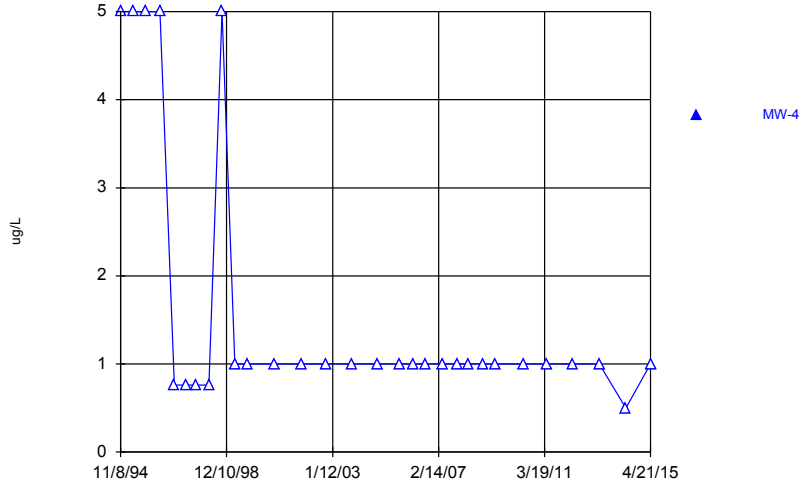
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

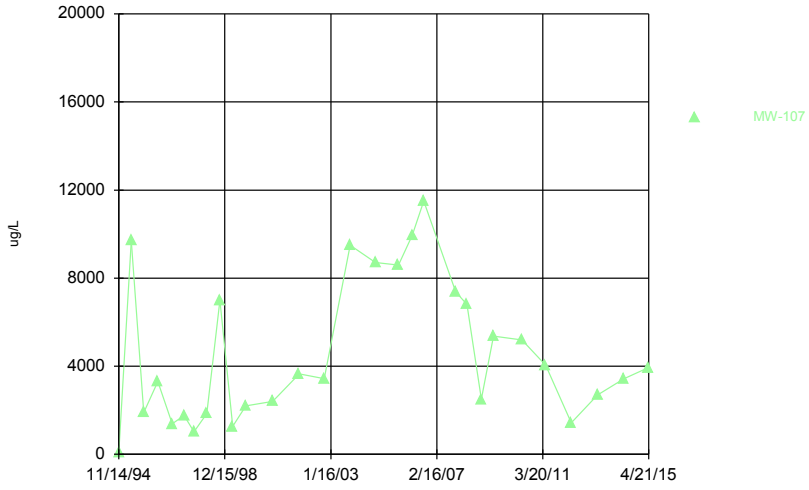
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG

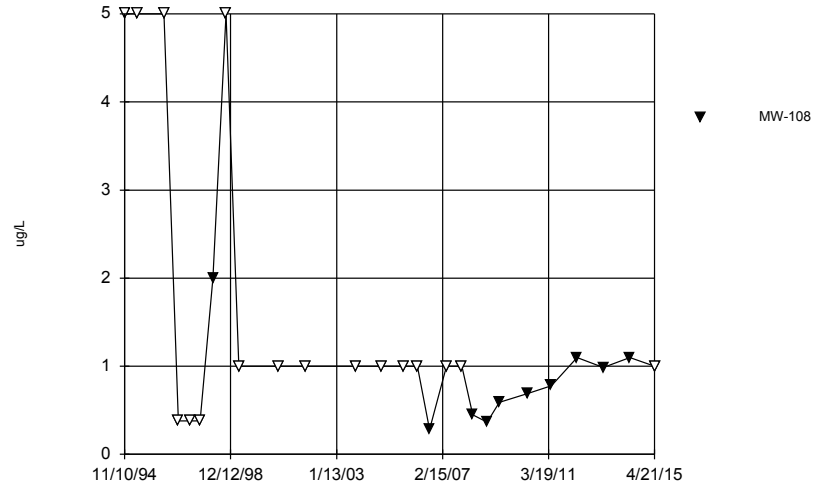
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

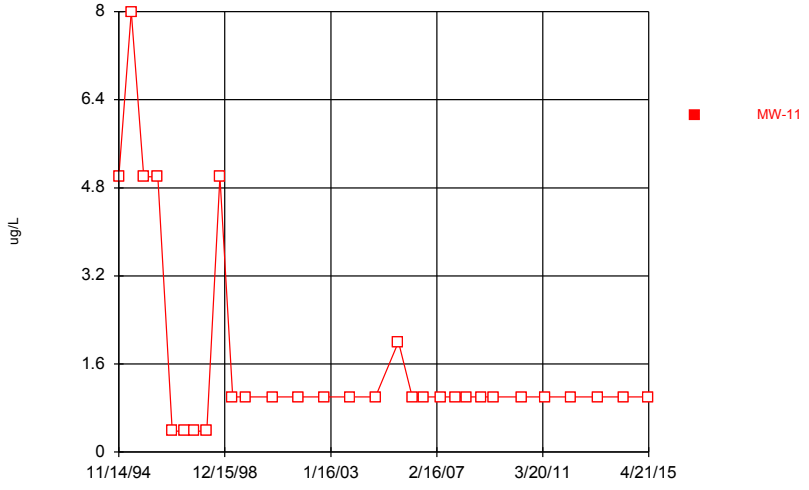
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

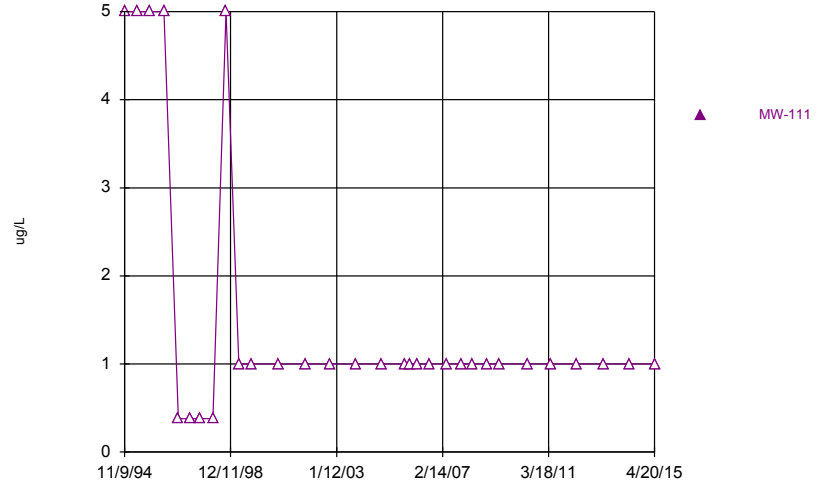
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

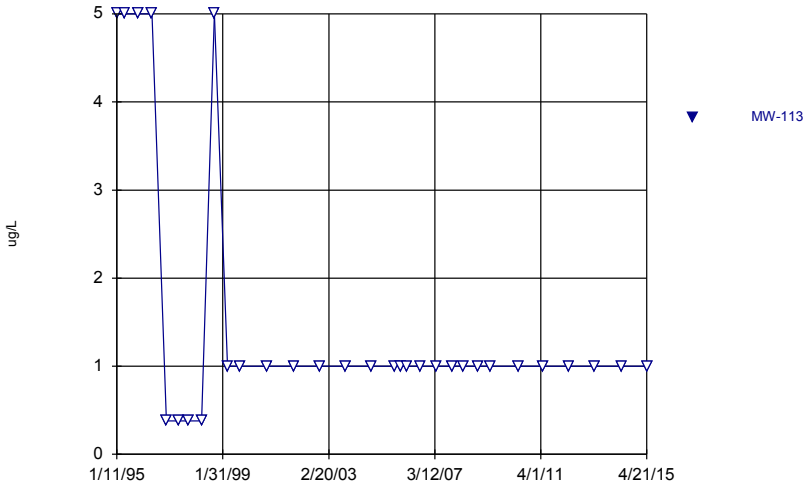
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

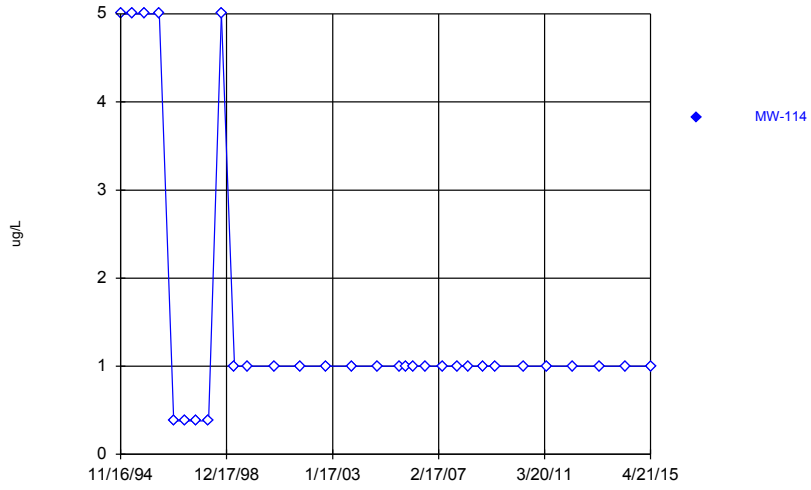
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

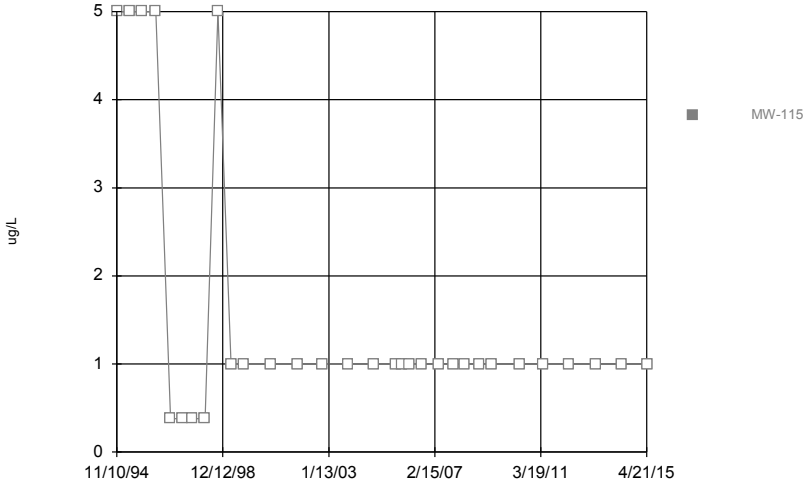
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

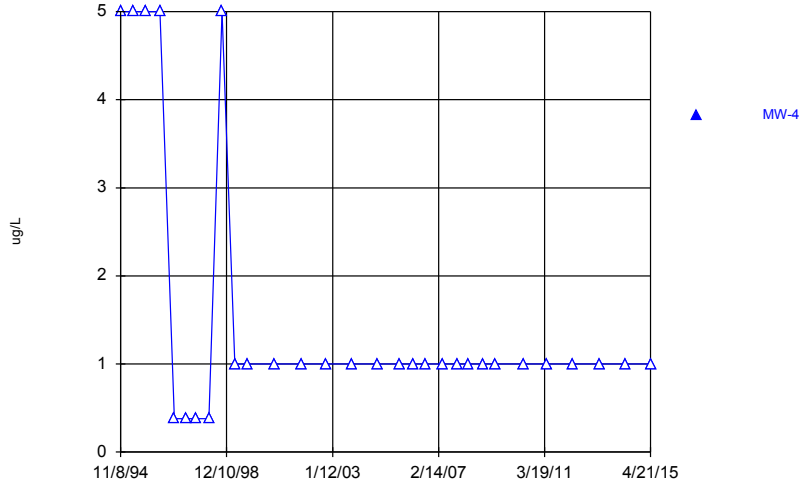
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

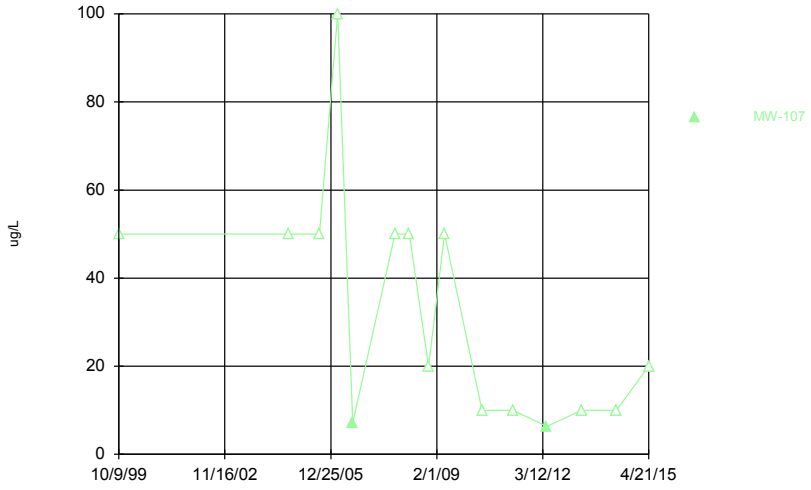
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

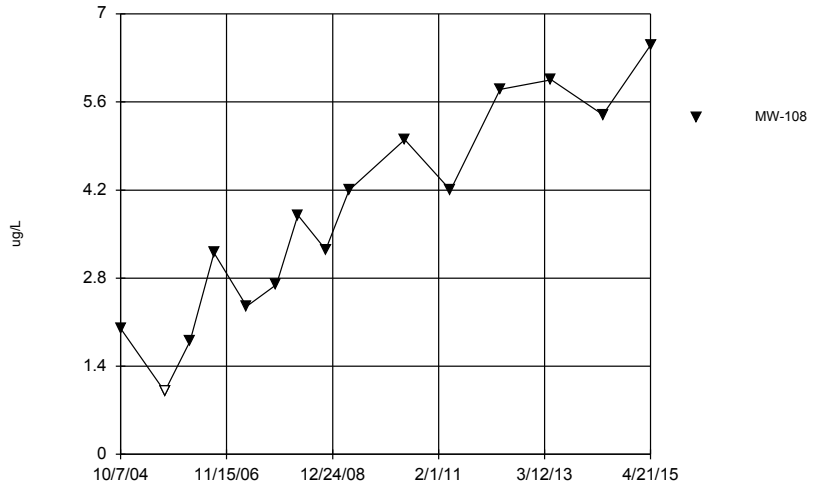
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

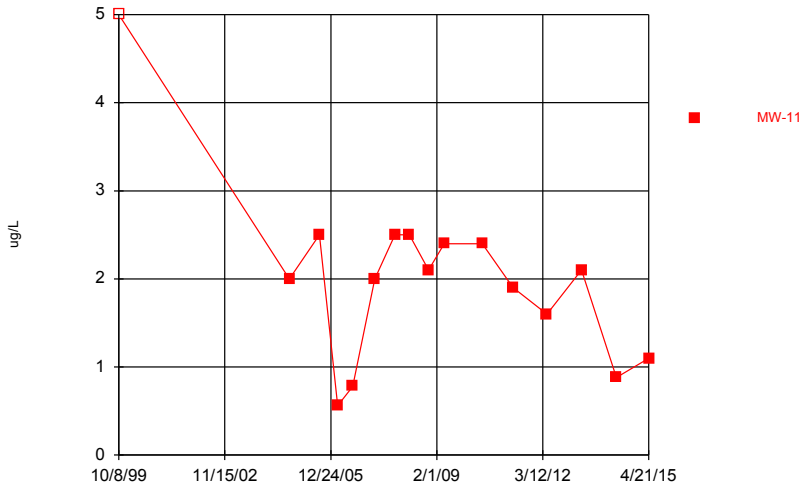
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

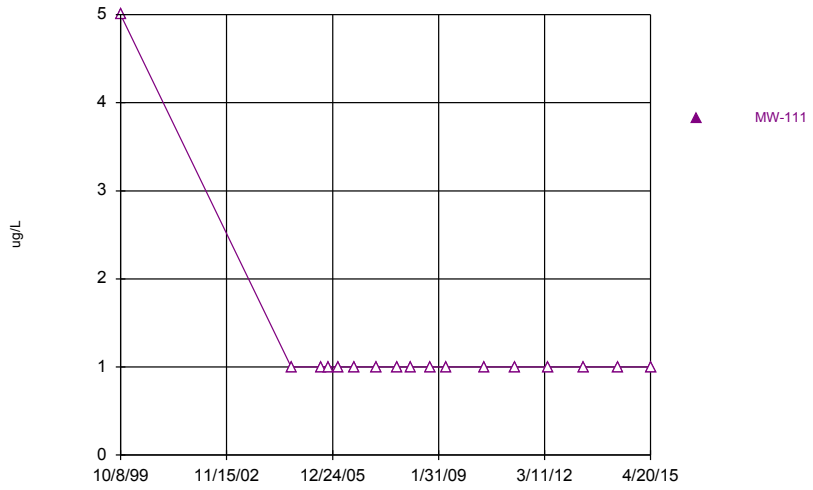
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

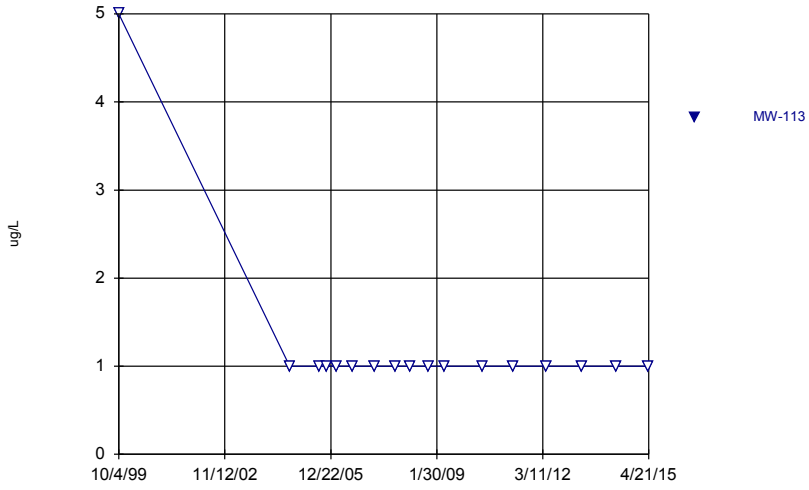
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

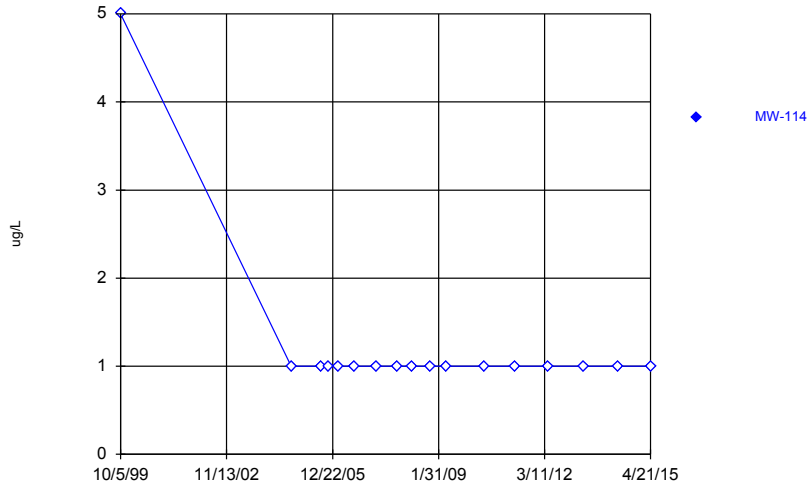
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

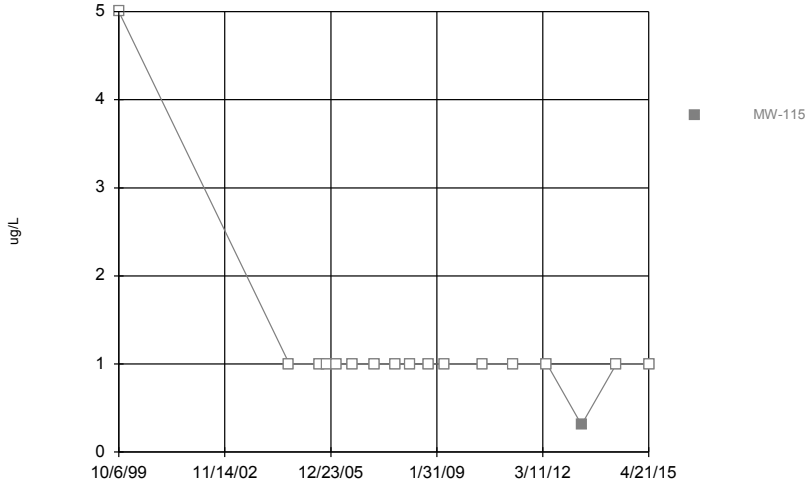
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

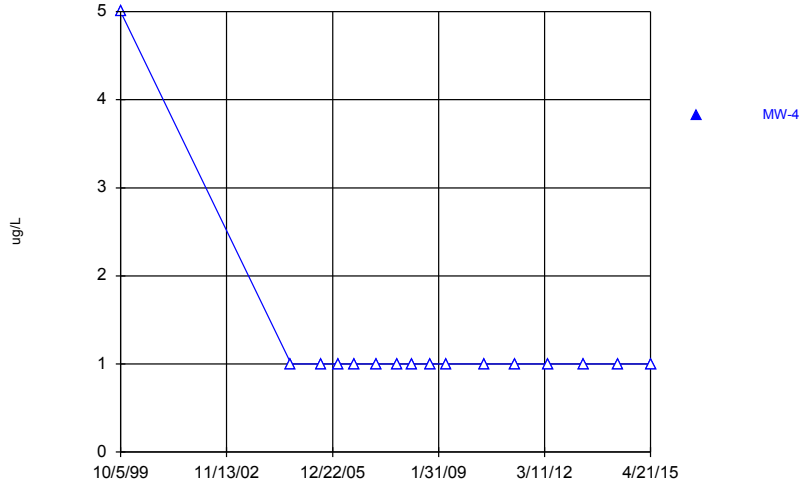
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

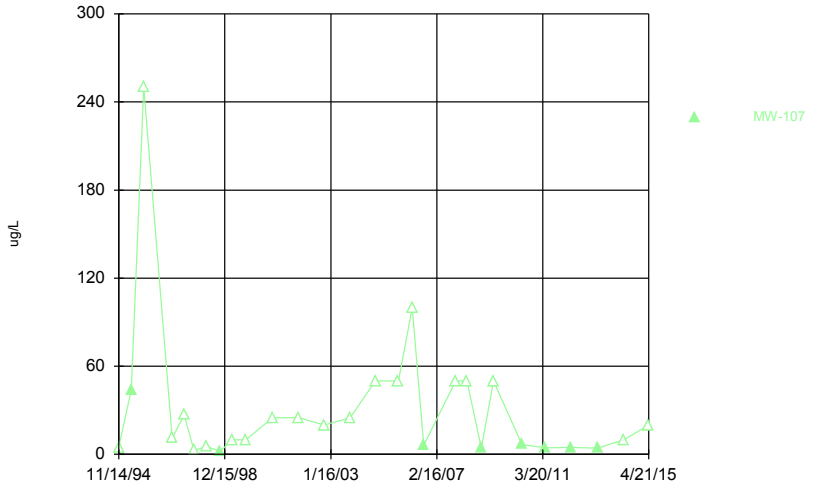
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

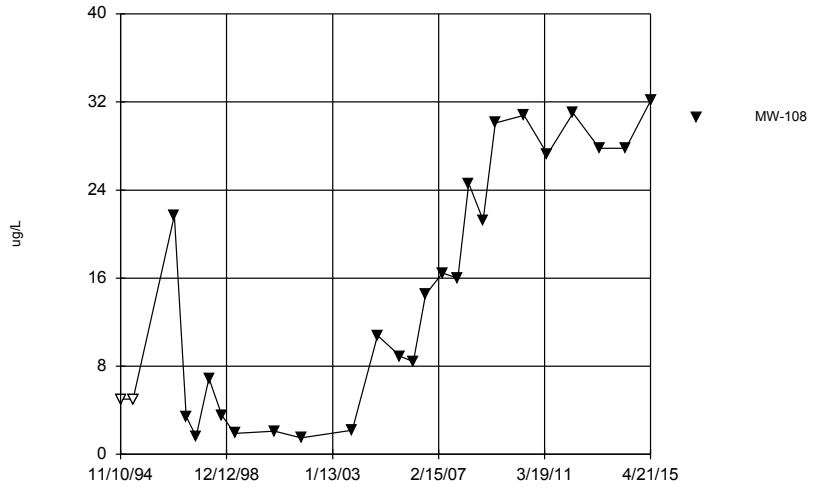
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

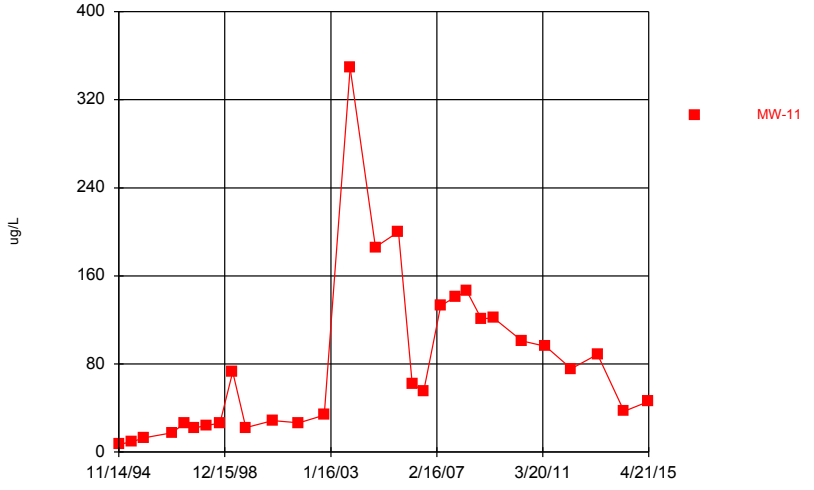
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG

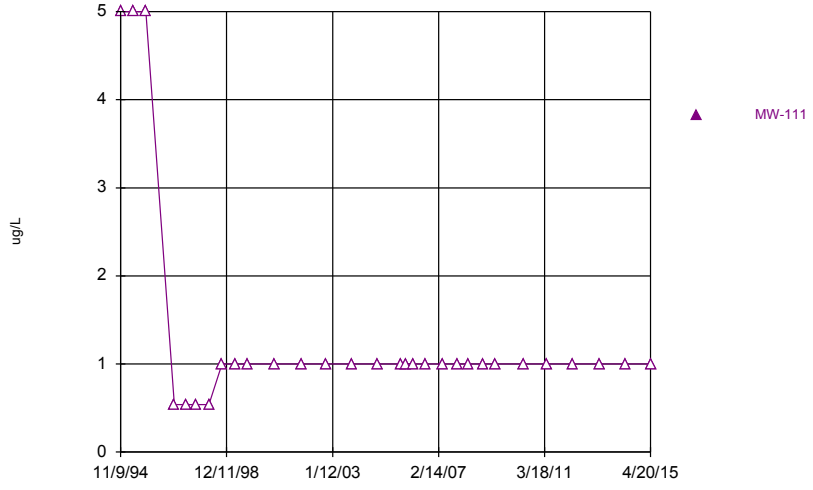
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

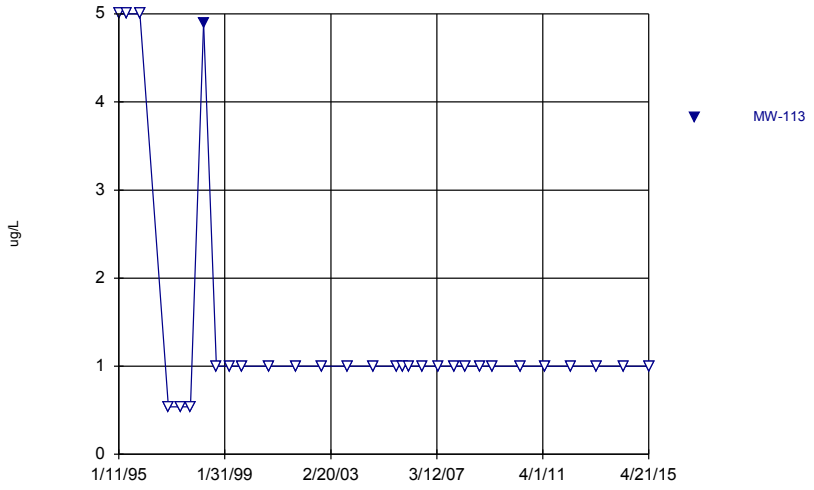
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

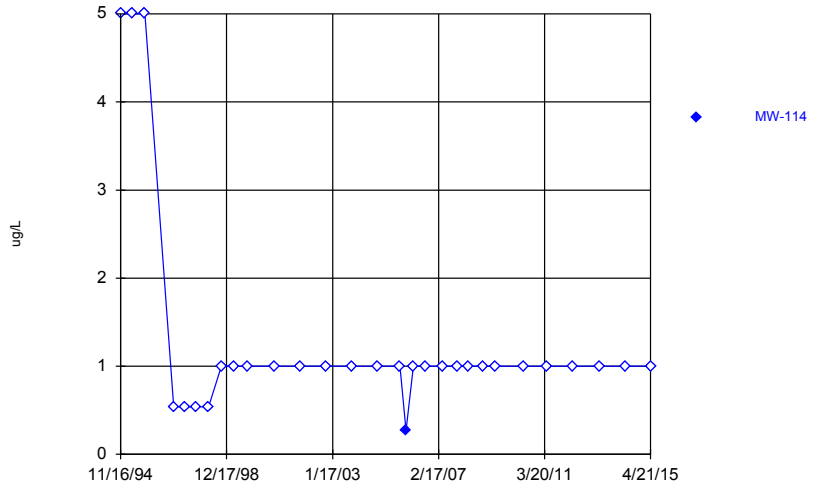
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

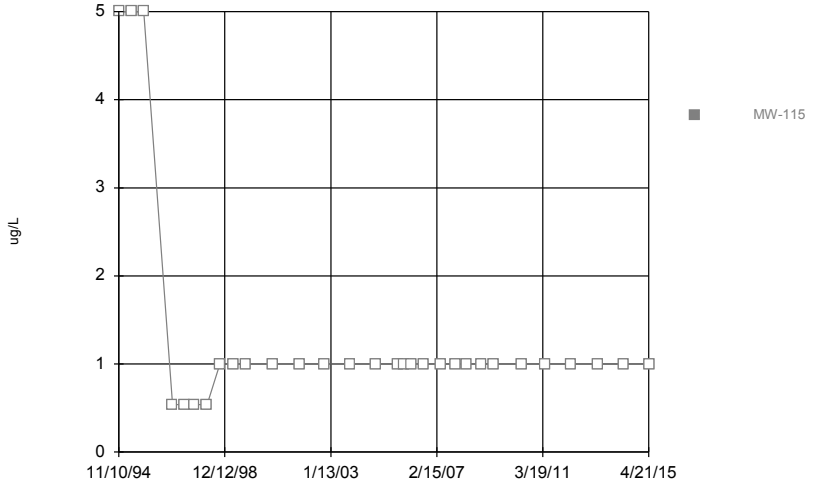
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

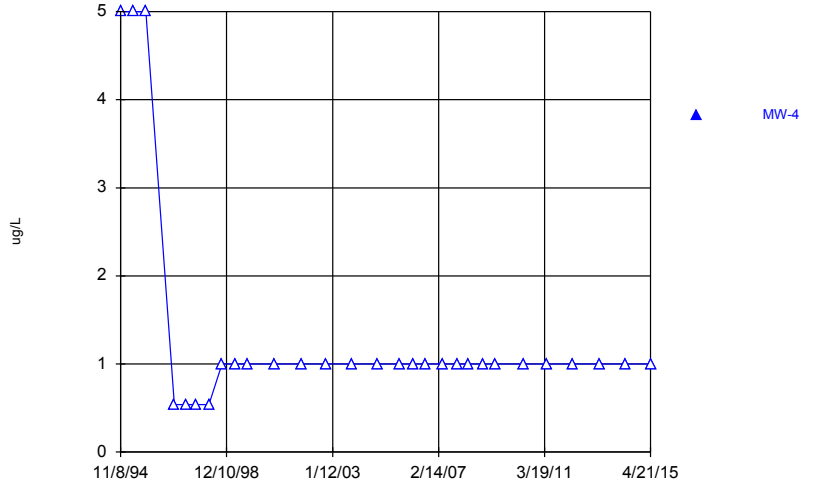
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

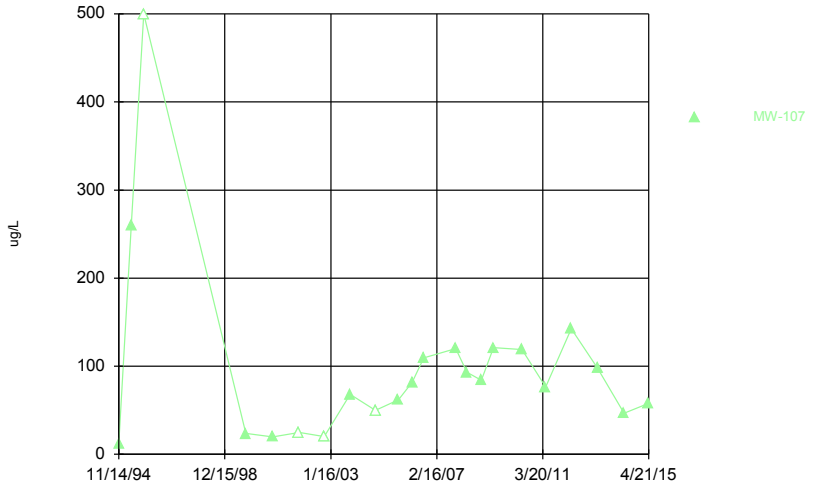
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

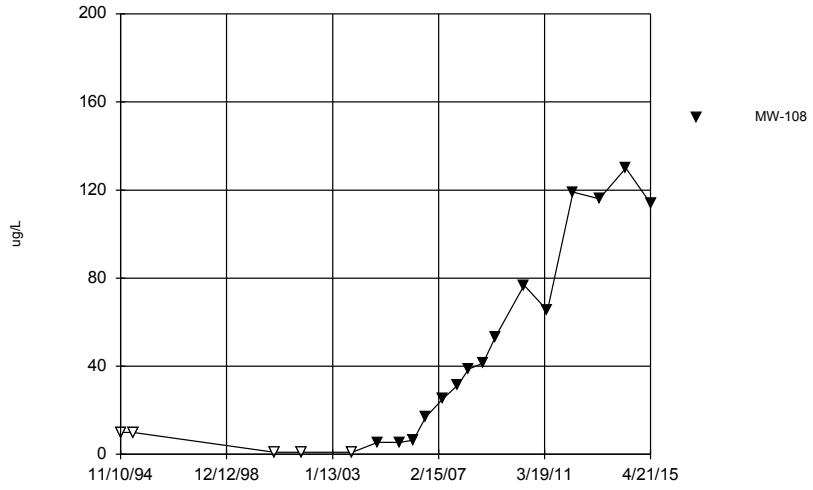
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

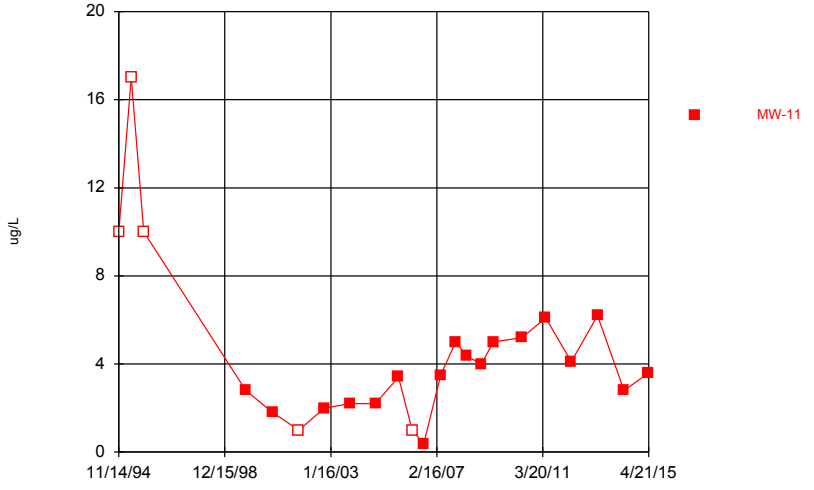
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

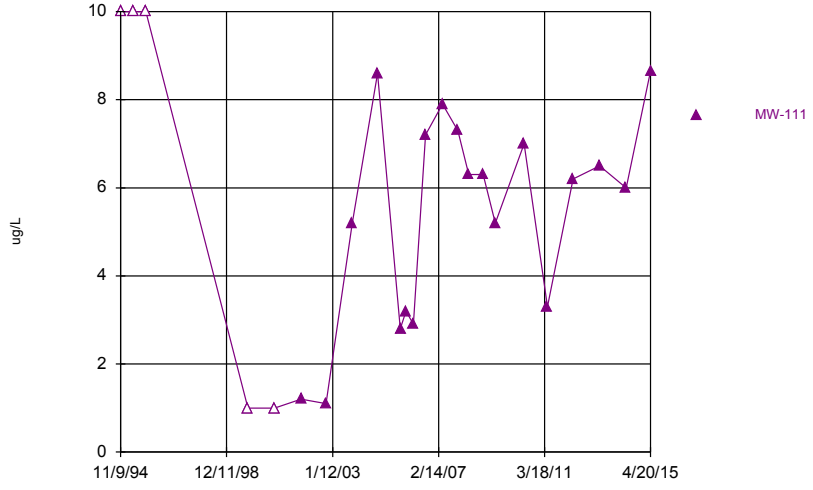
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

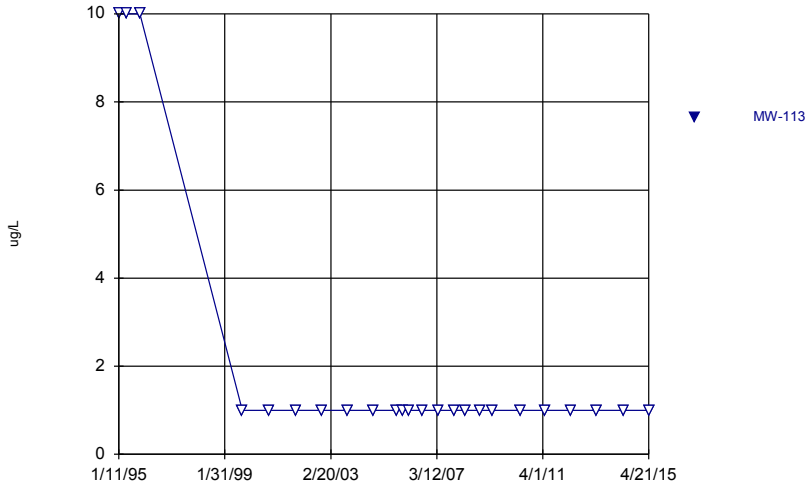
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

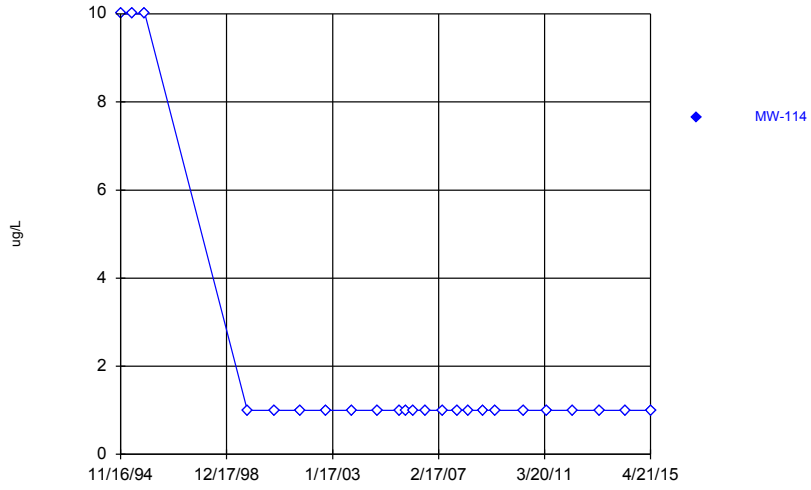
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

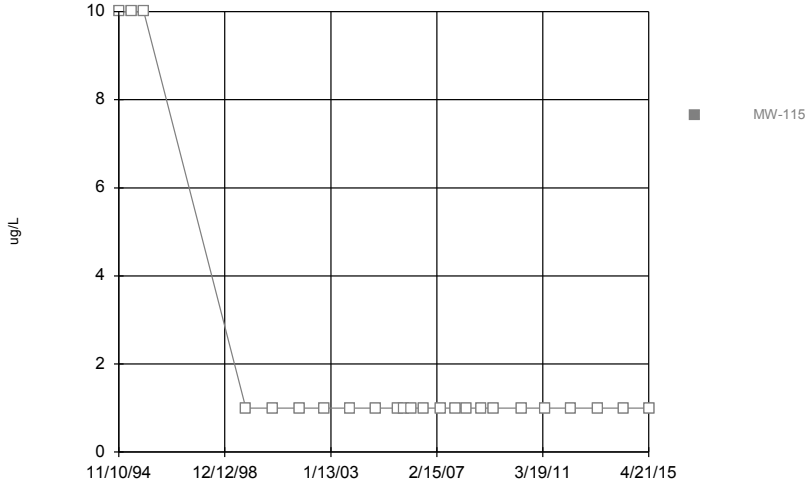
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

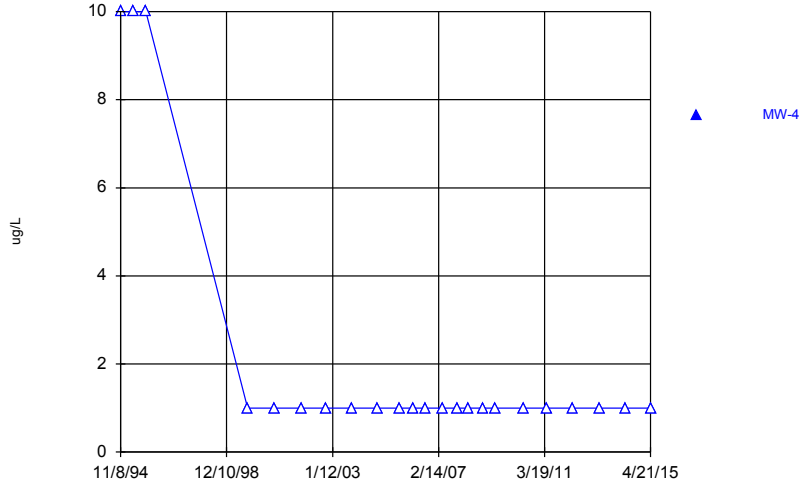
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

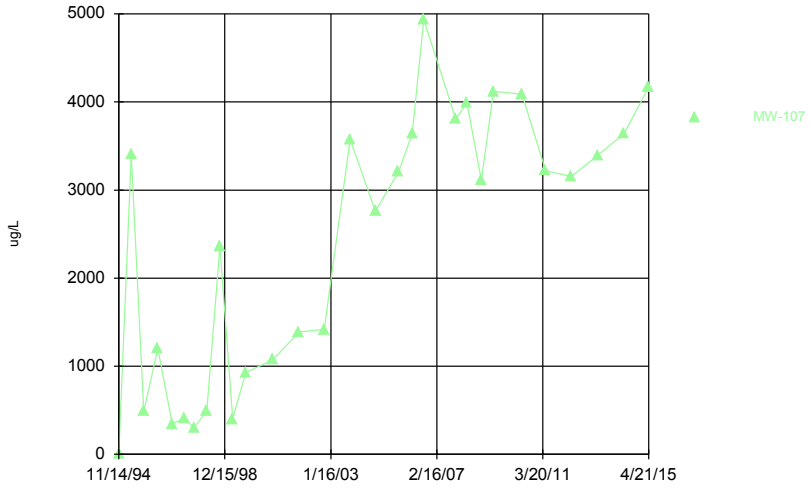
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG

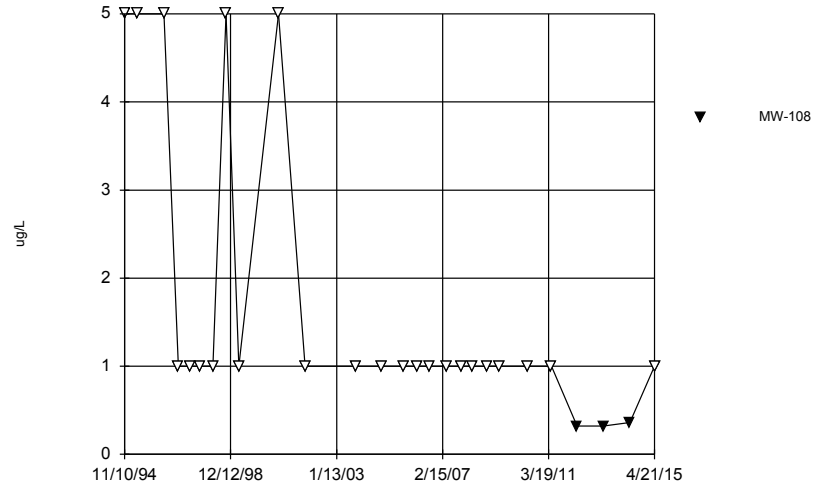
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

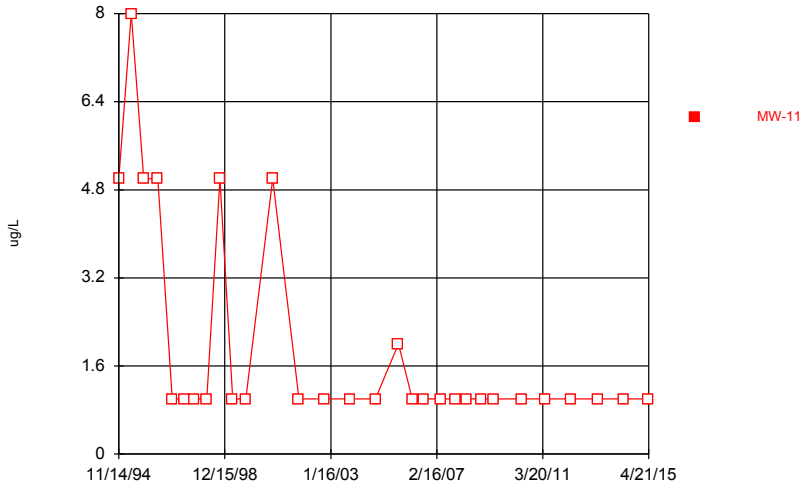
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

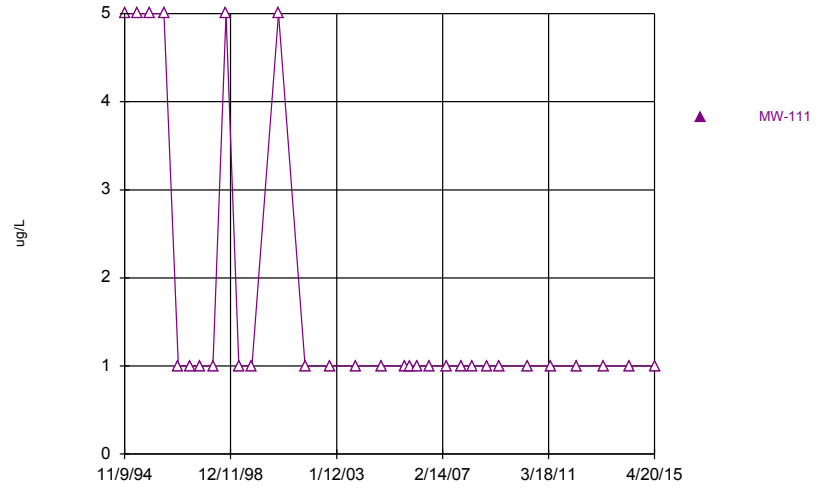
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

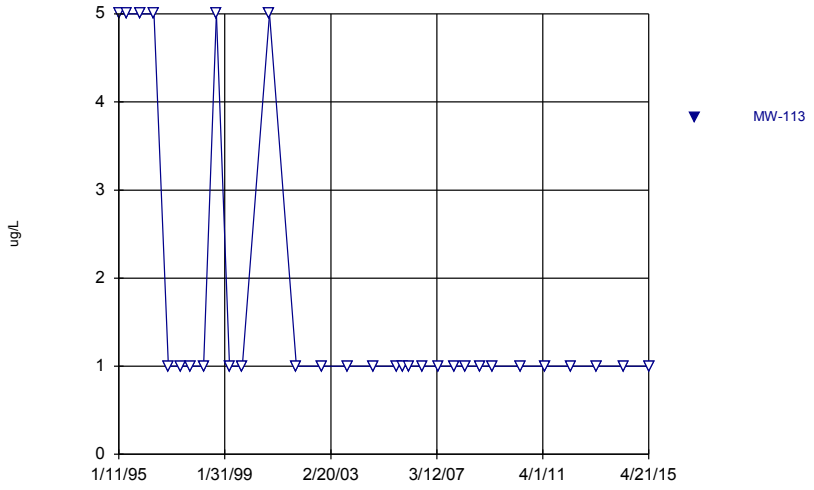
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

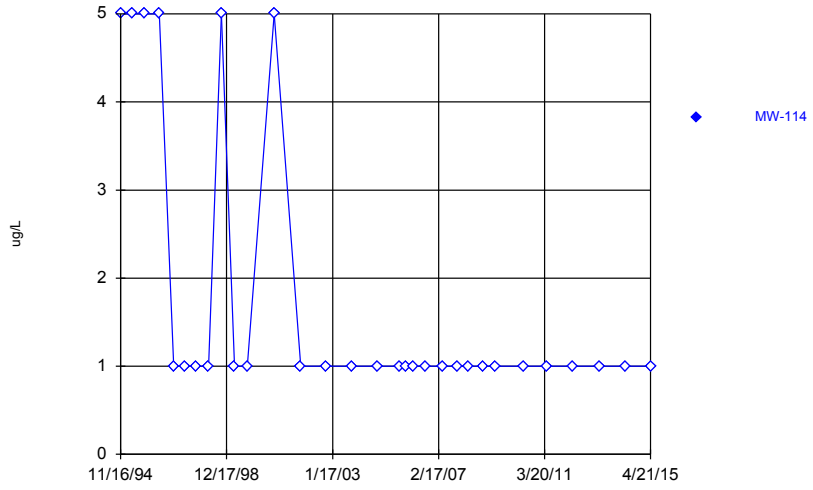
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:26 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

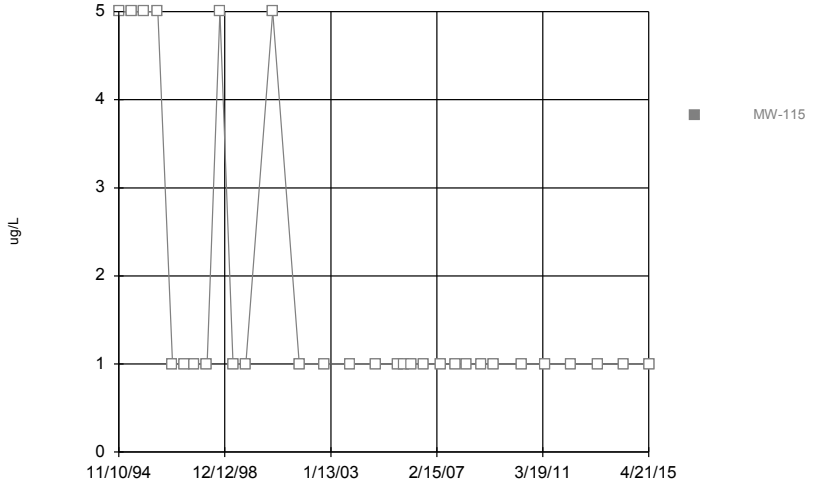
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:27 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

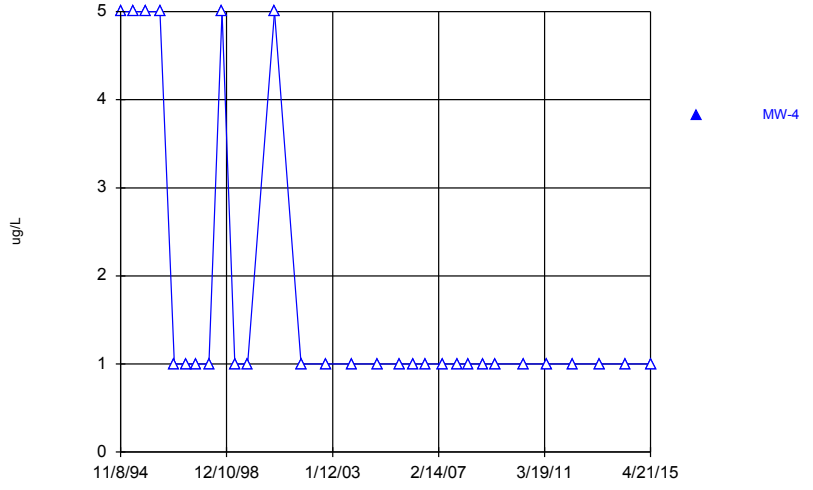
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:27 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series

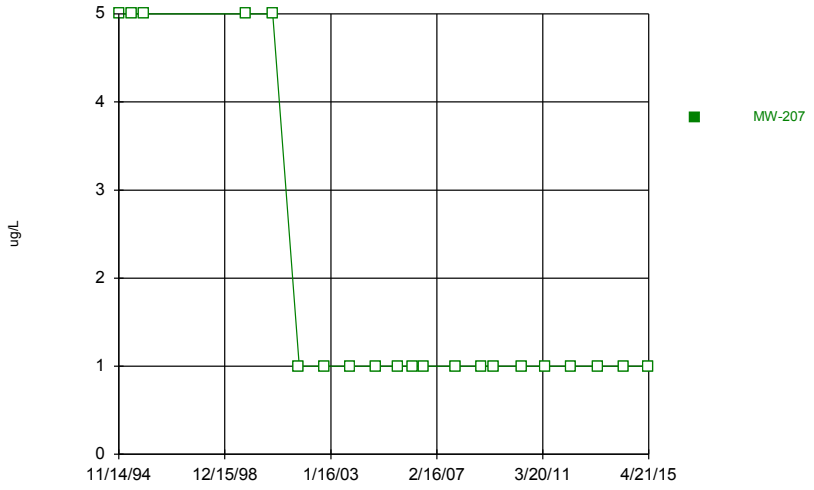


Constituent: Xylenes [total] Analysis Run 8/10/2015 11:27 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

UPPER INTERMEDIATE UNIT WELLS

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

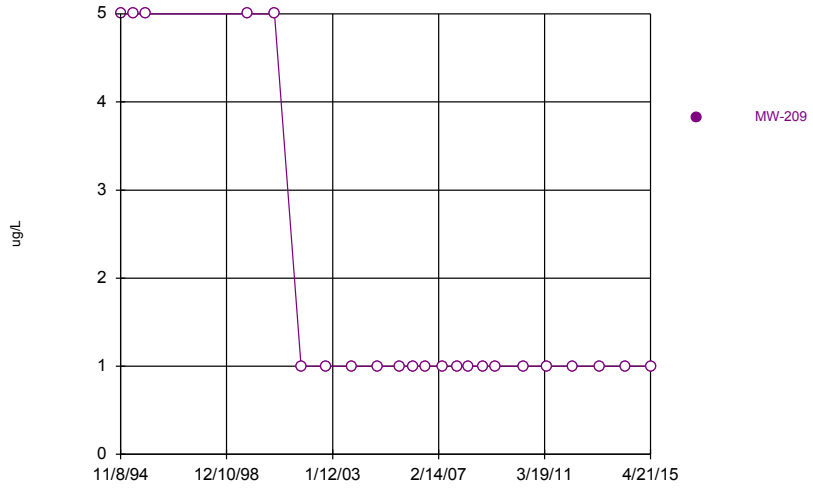
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

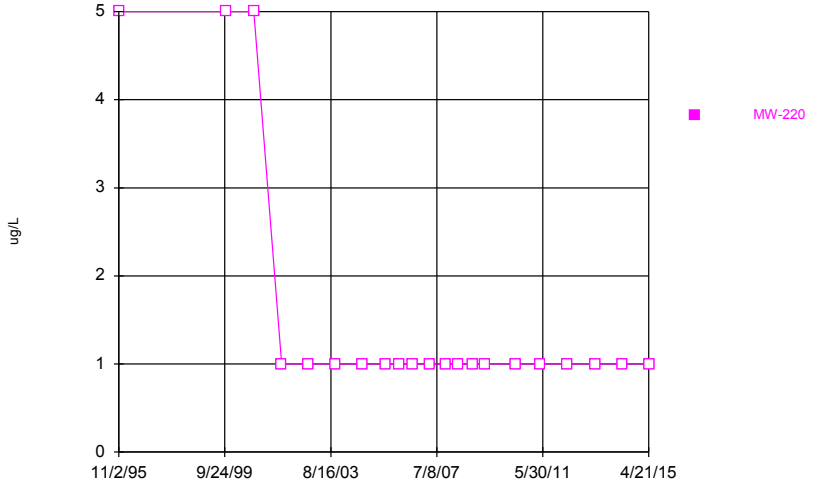
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

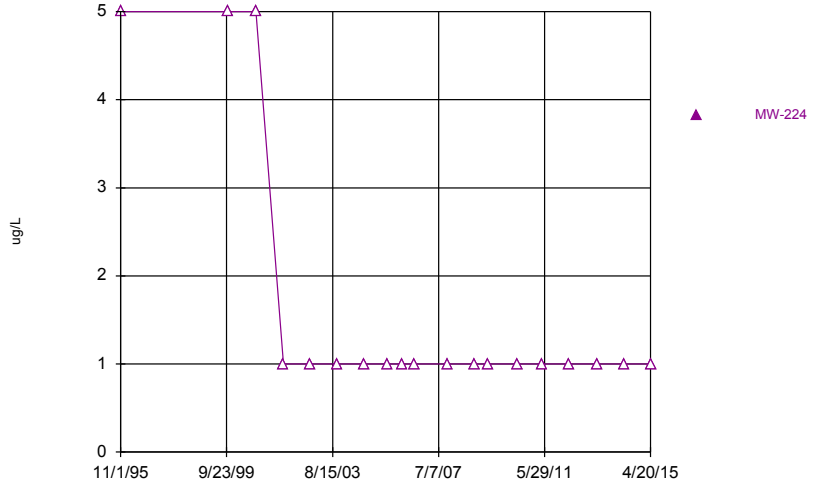
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

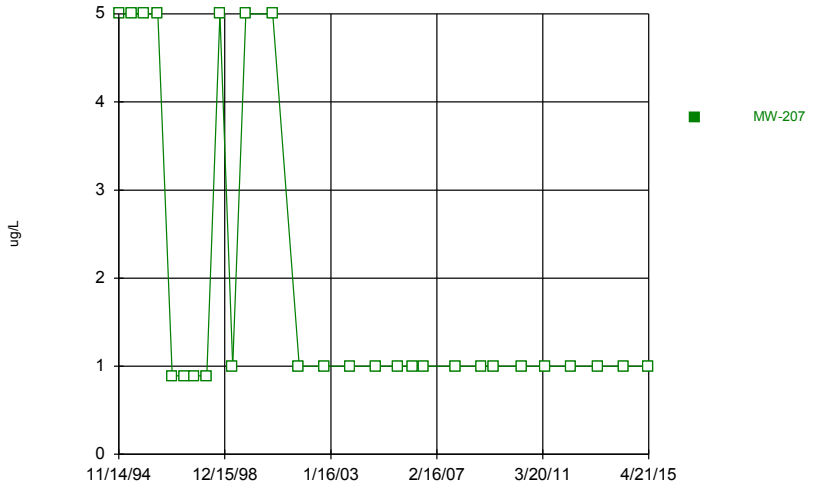
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

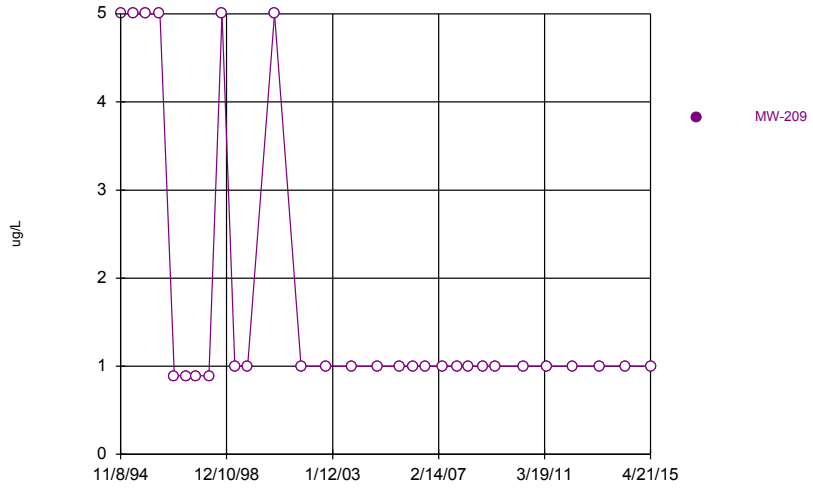
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

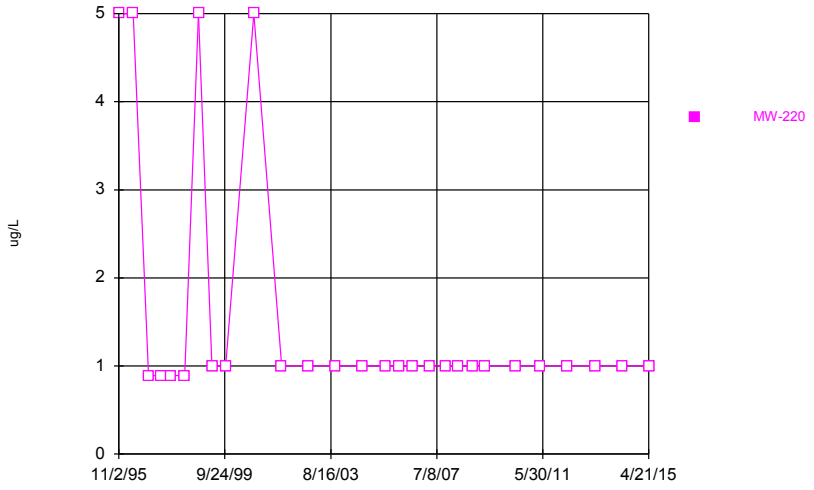
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

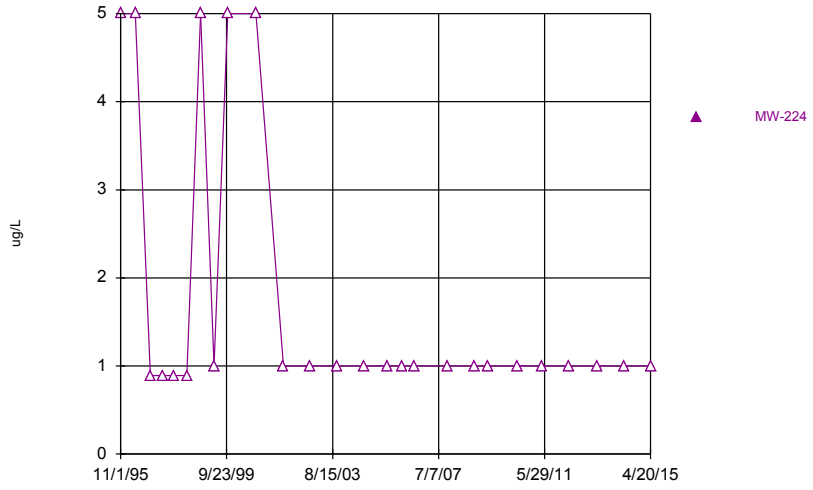
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

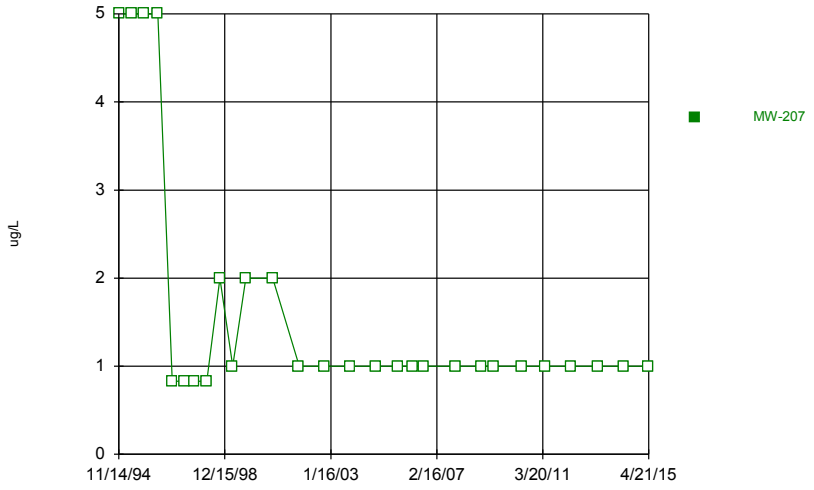
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

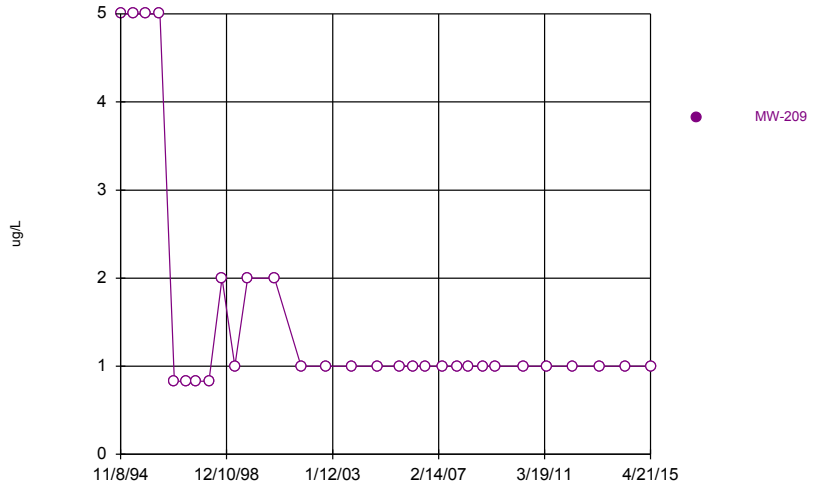
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

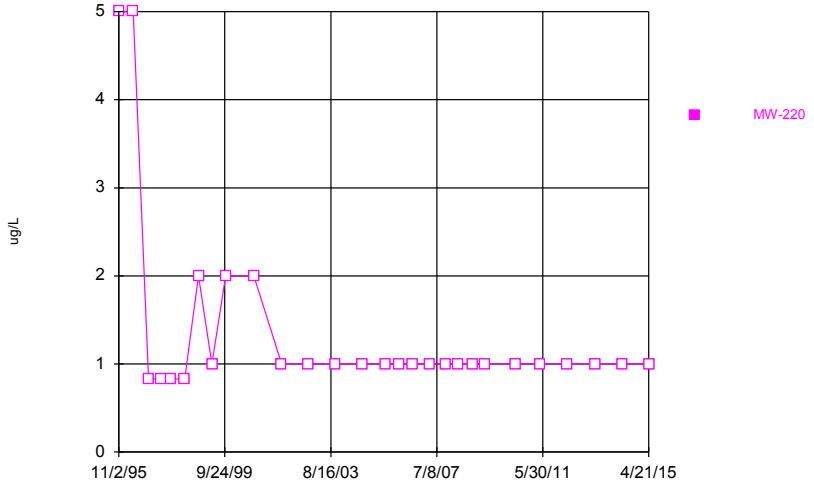
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

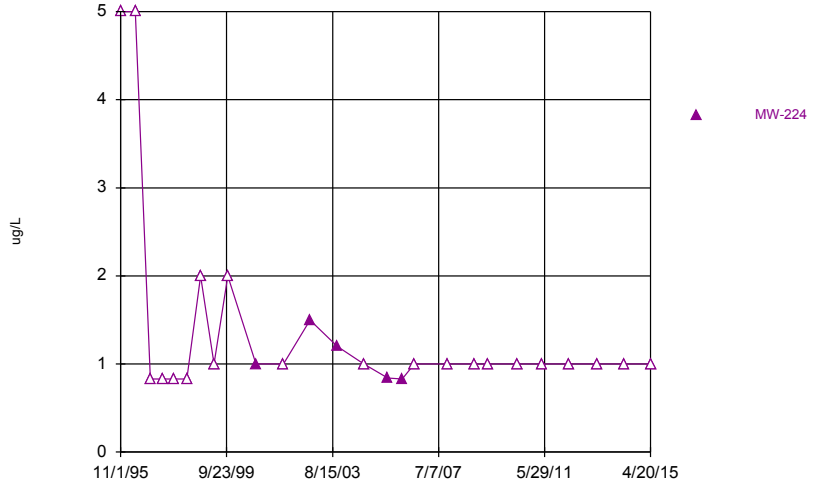
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

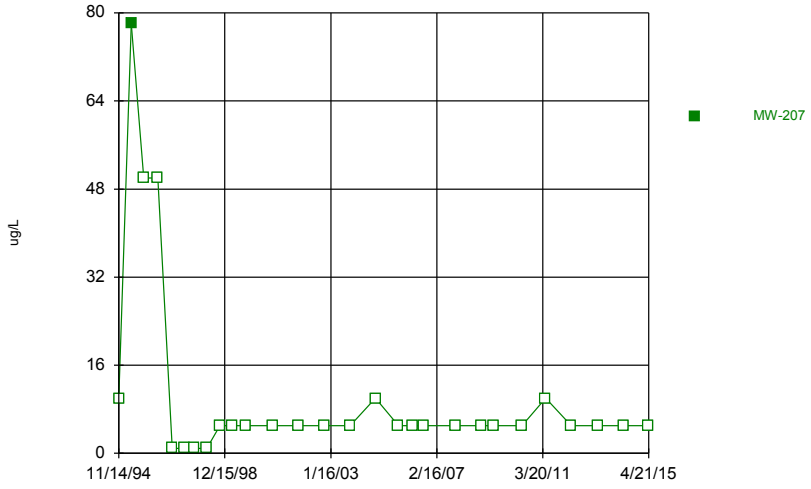
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

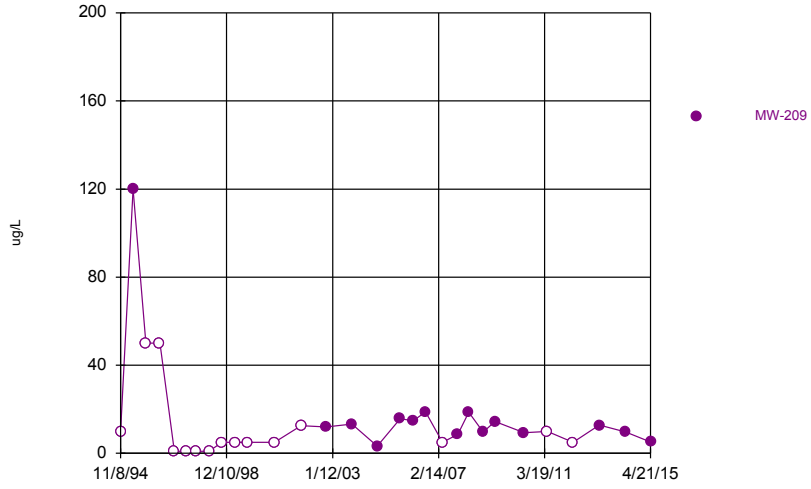
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

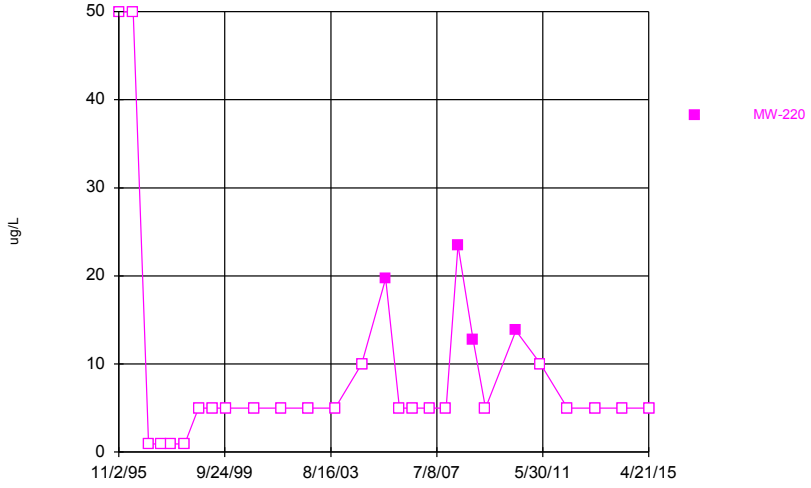
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

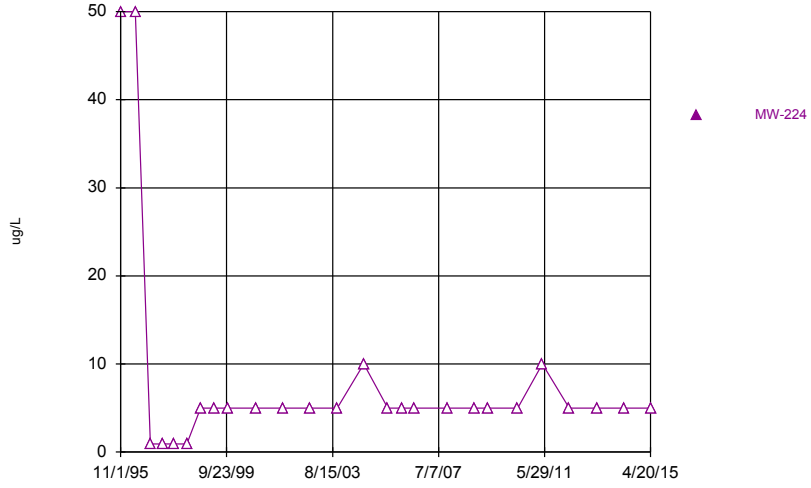
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

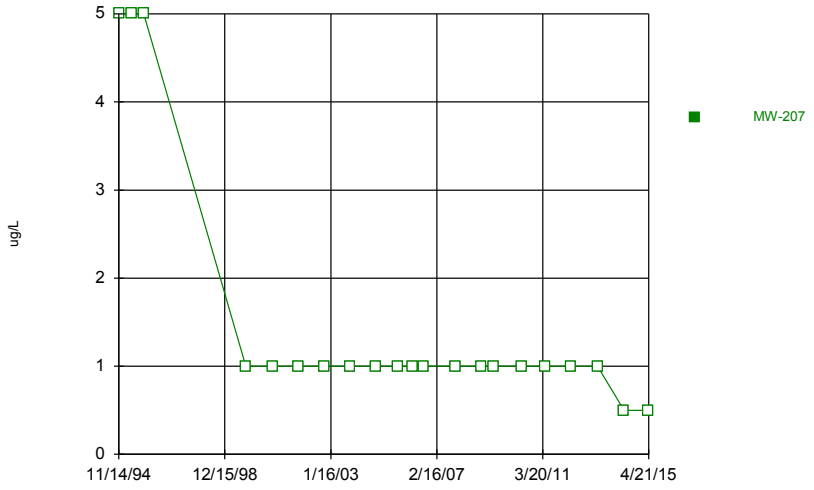
Time Series



Constituent: Acetone Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

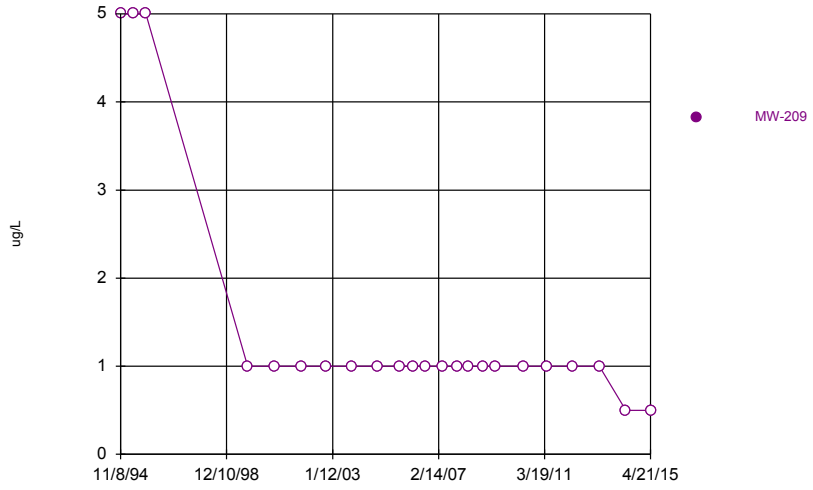
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

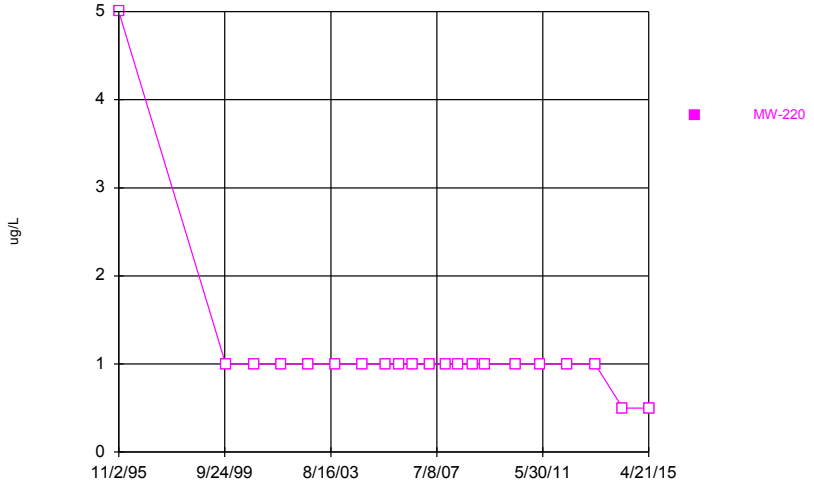
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

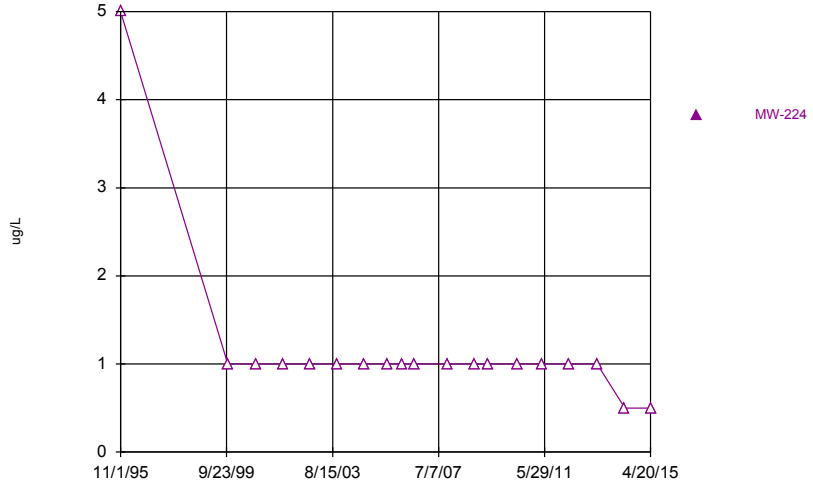
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

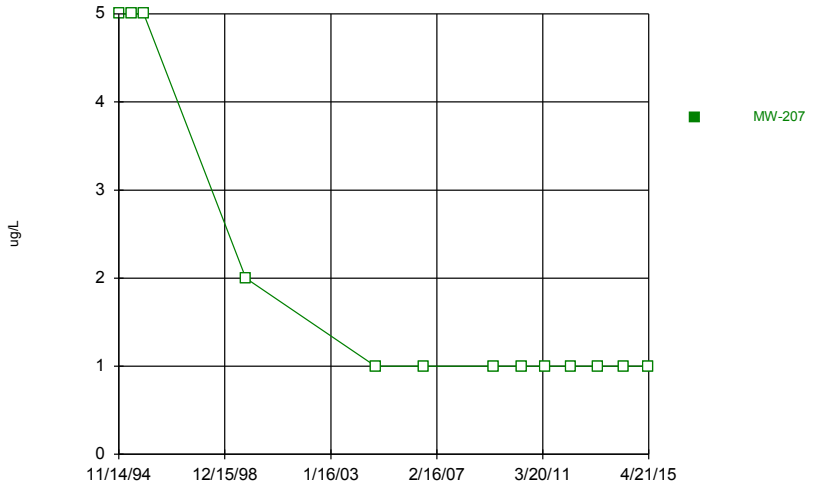
Time Series



Constituent: Benzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

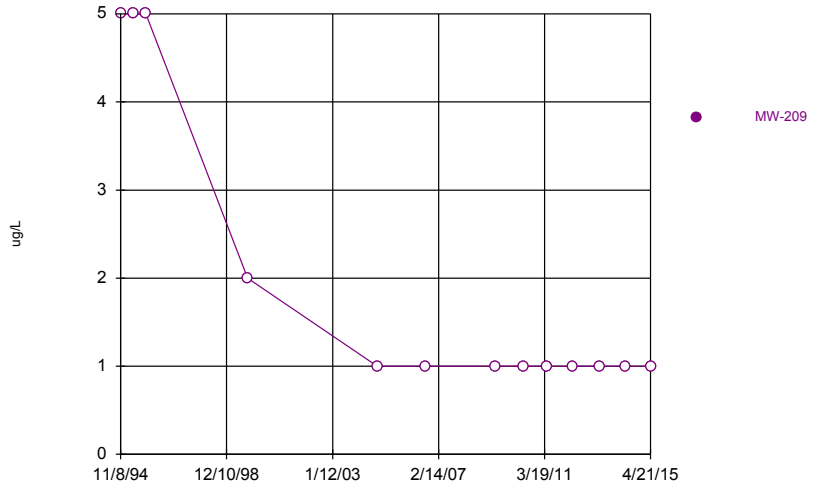
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

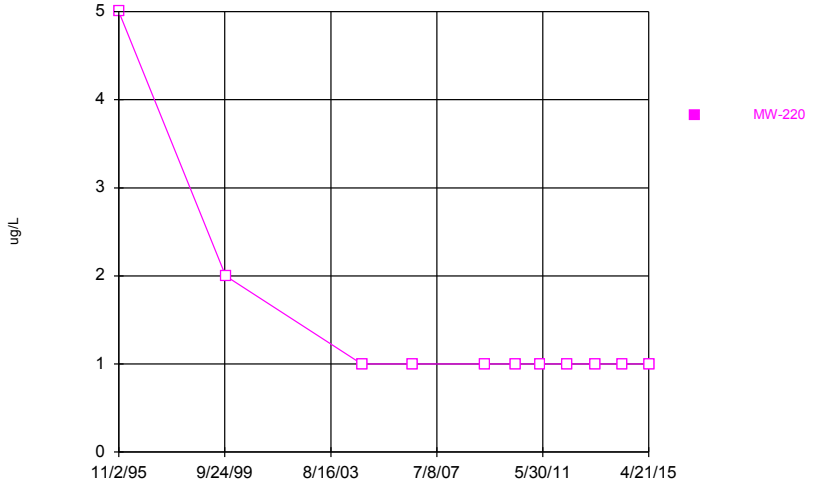
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

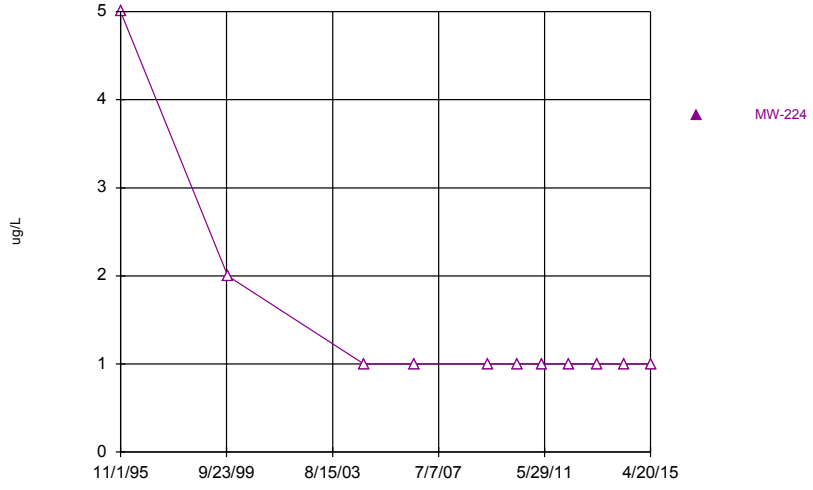
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

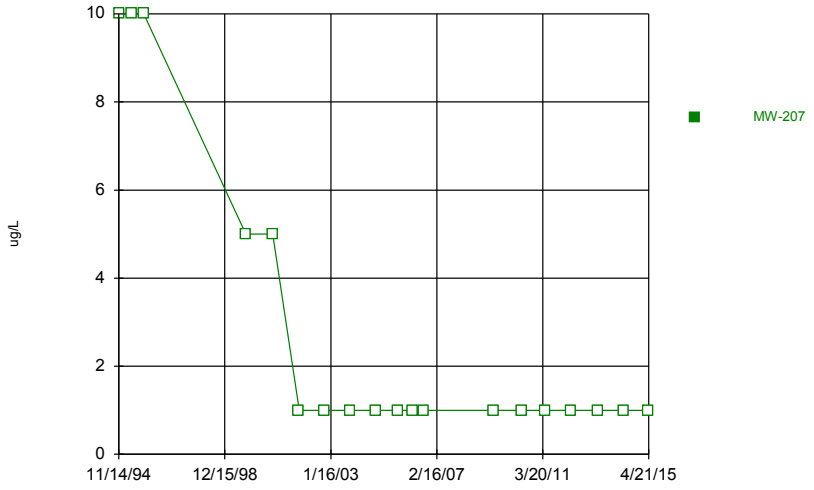
Time Series



Constituent: Chlorobenzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

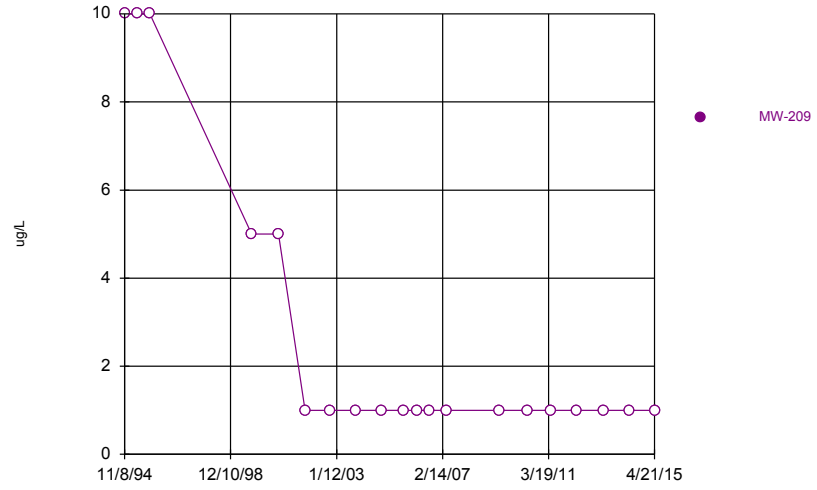
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

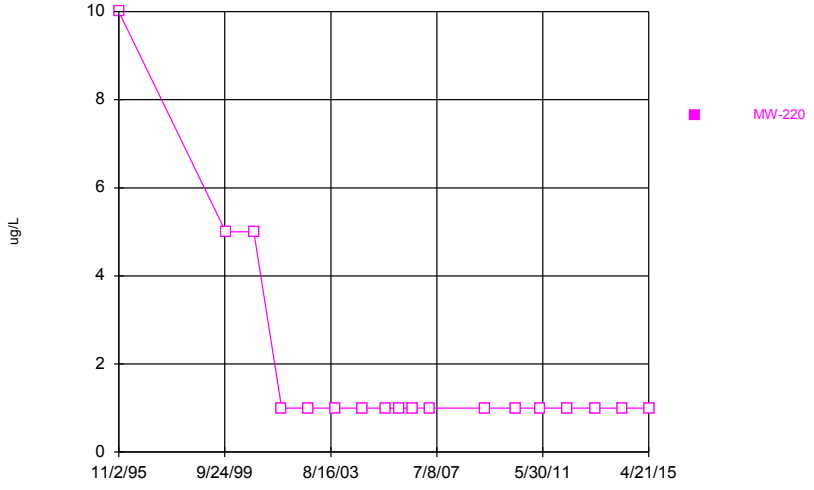
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

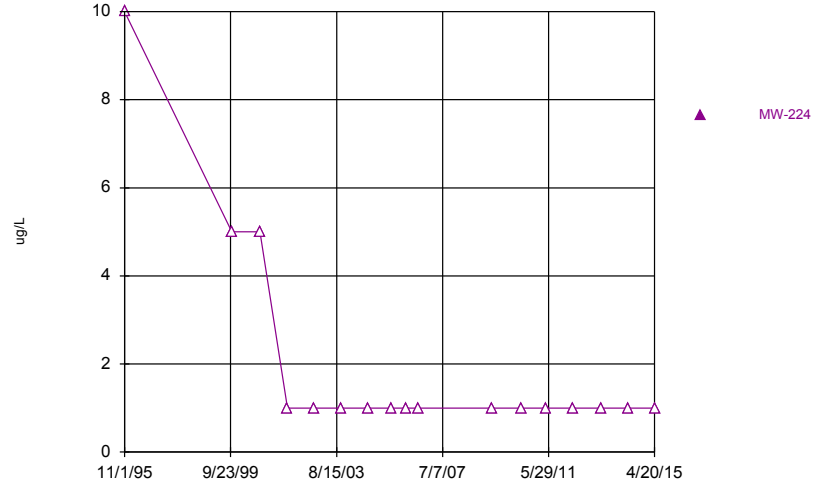
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

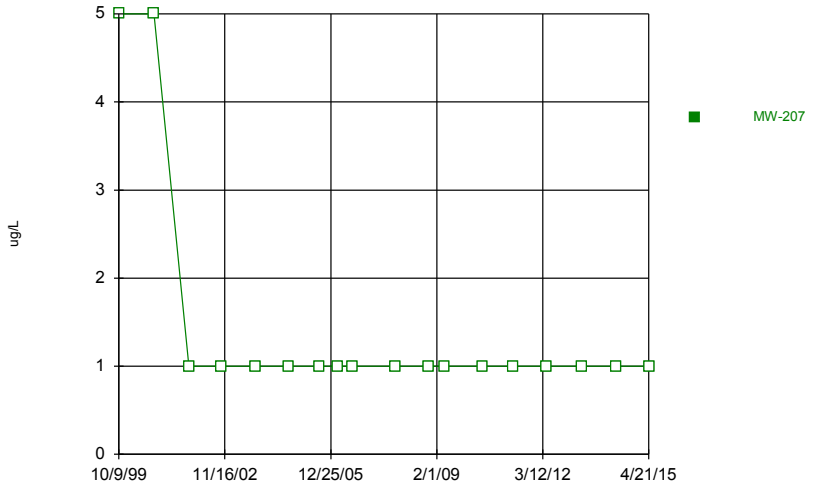
Time Series



Constituent: Chloroethane Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

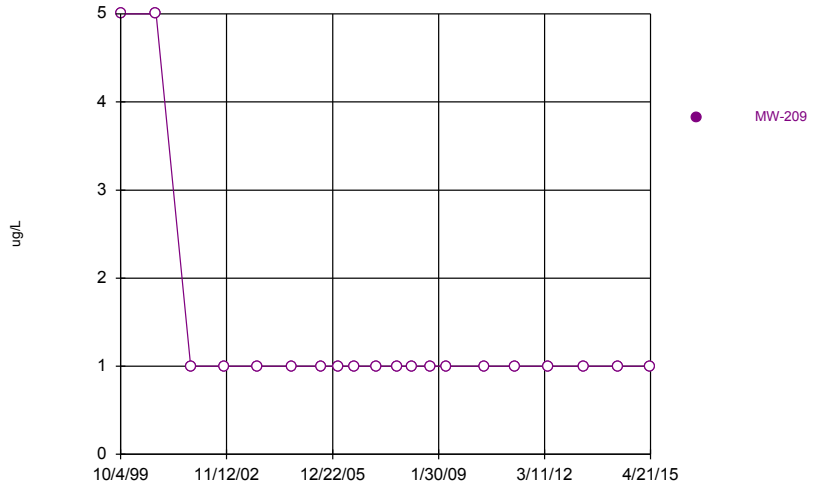
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

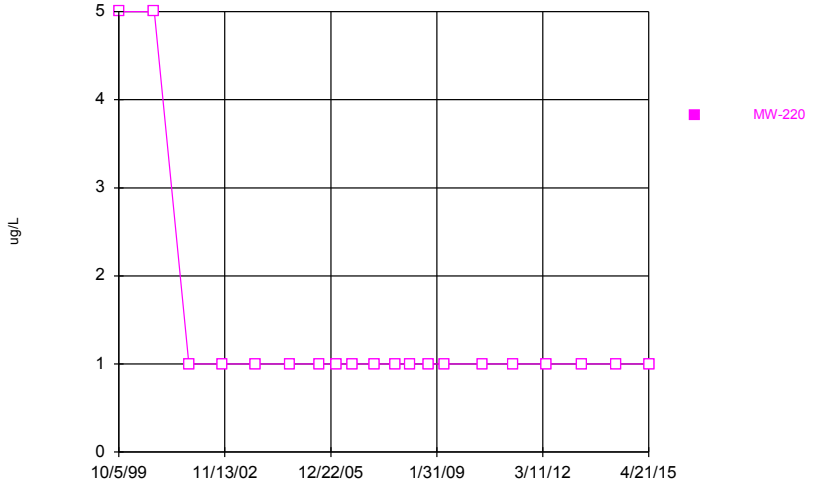
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

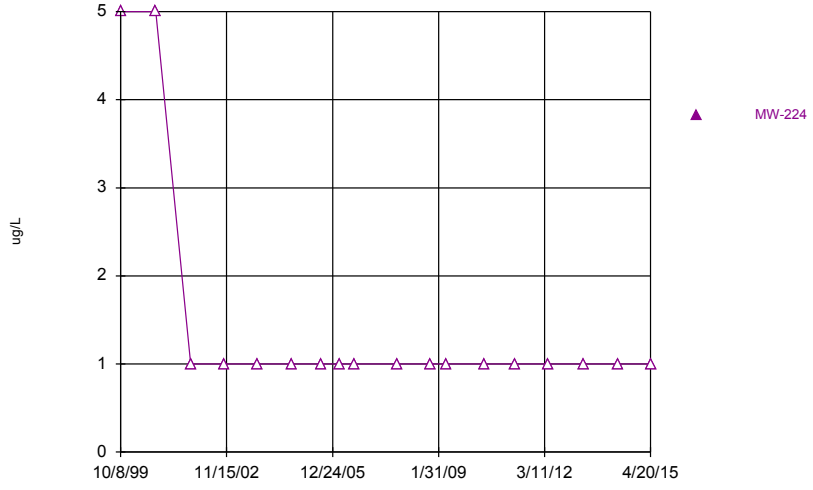
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

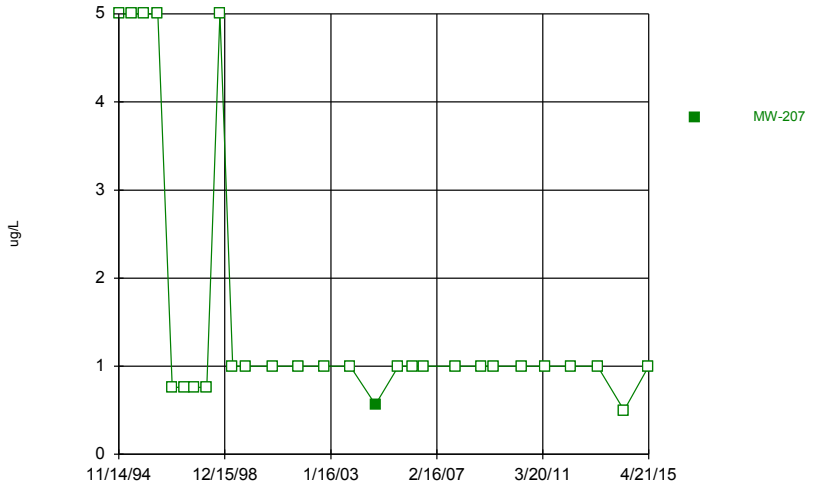
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

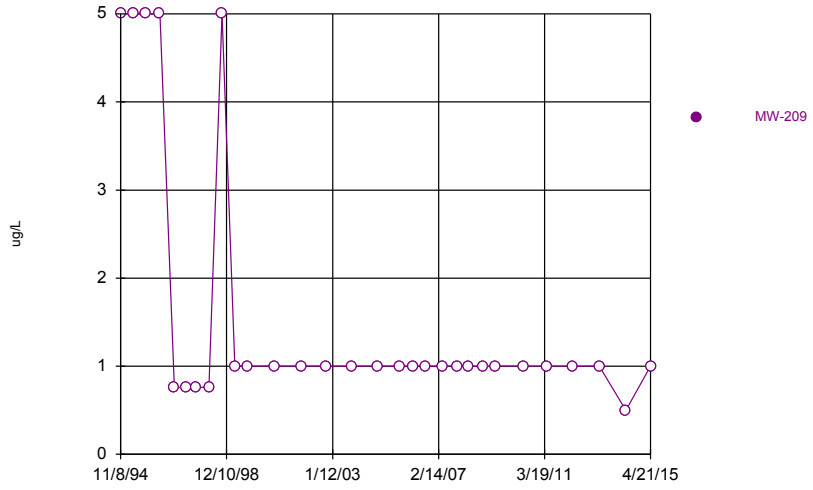
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

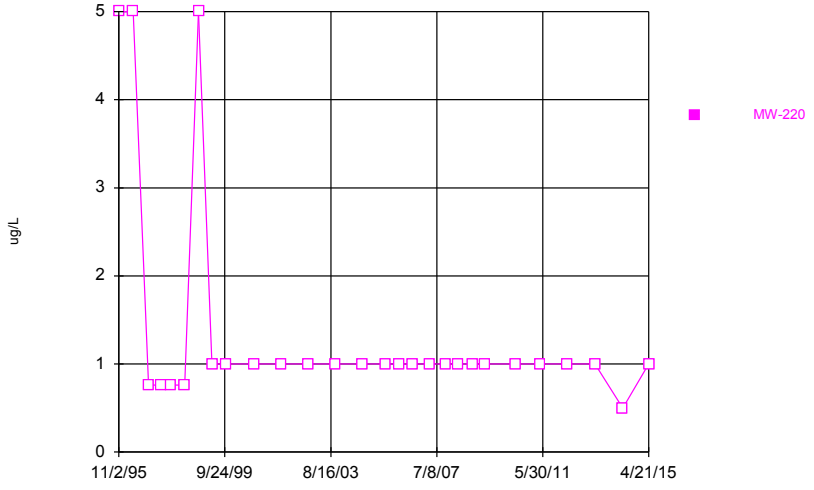
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

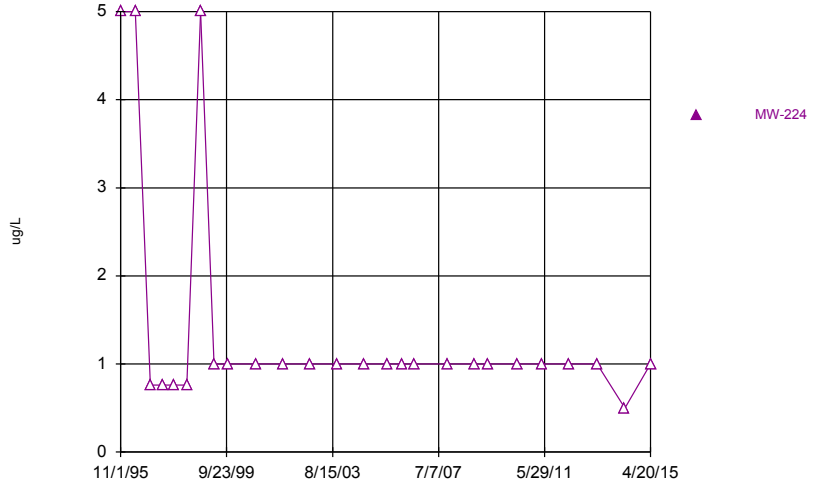
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

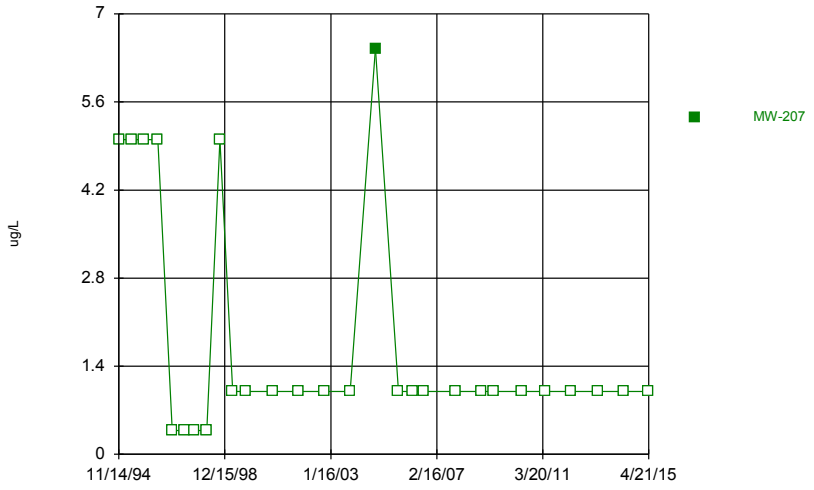
Time Series



Constituent: Ethylbenzene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

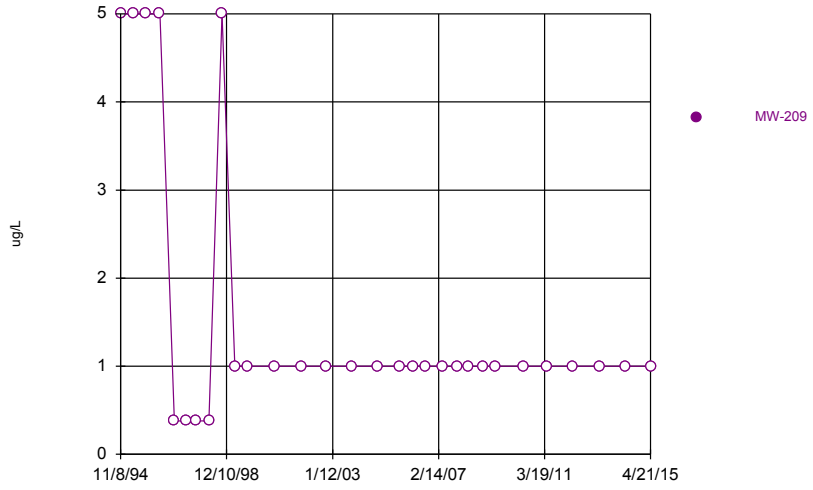
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

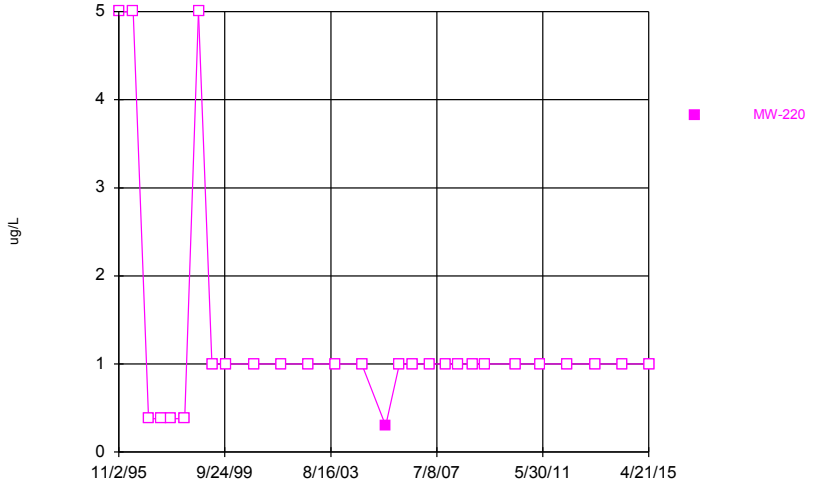
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

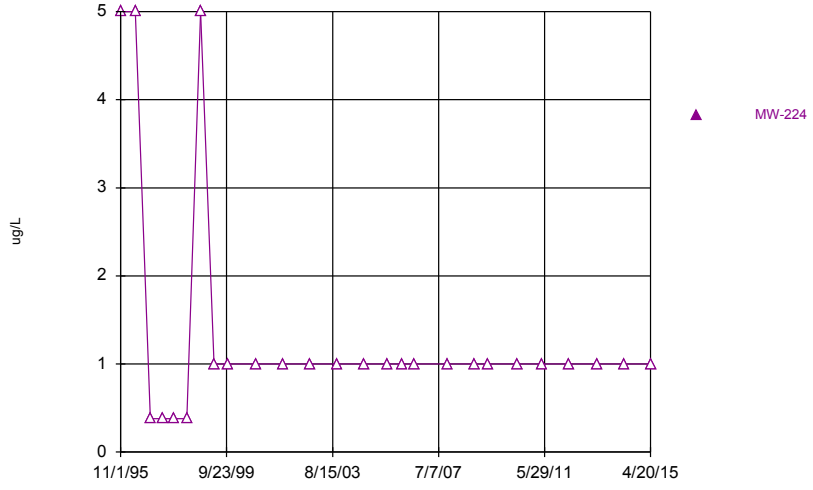
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

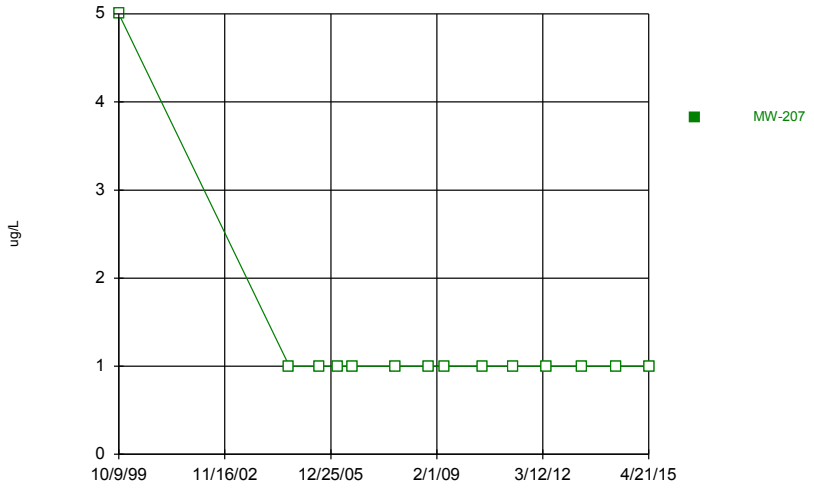
Time Series



Constituent: Toluene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

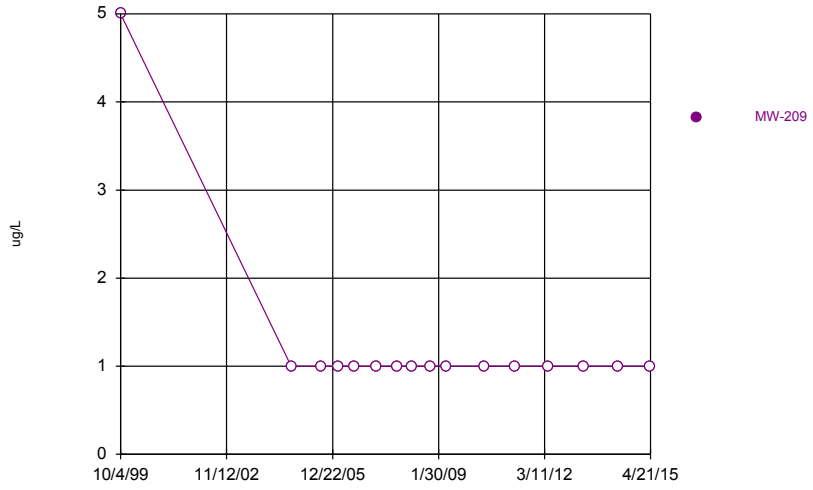
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

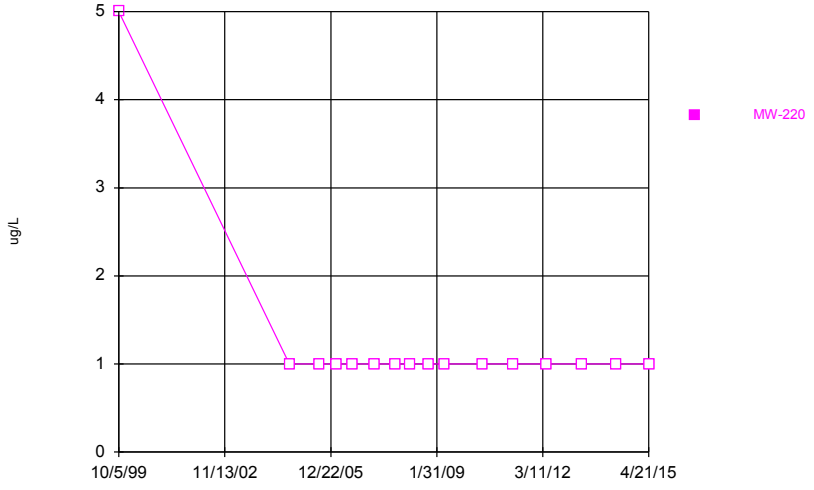
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

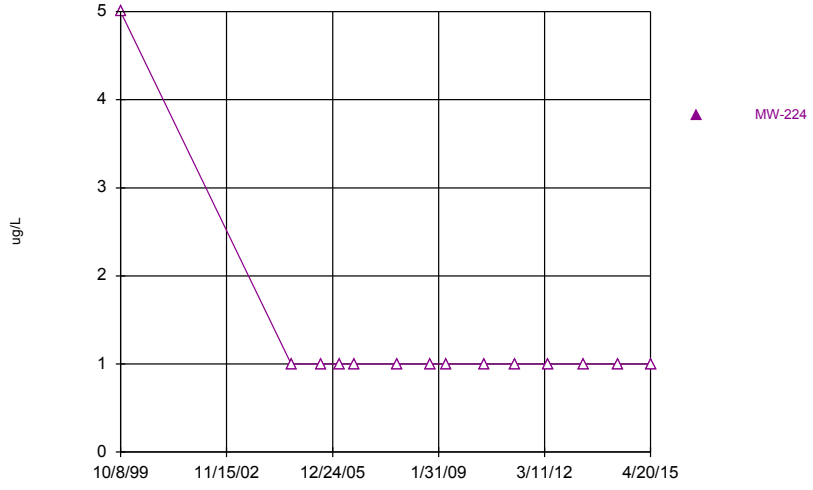
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

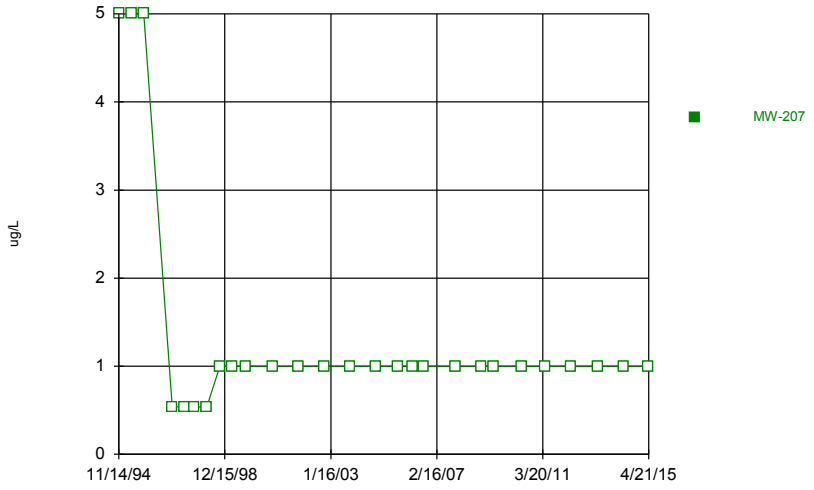
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 8/10/2015 11:30 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

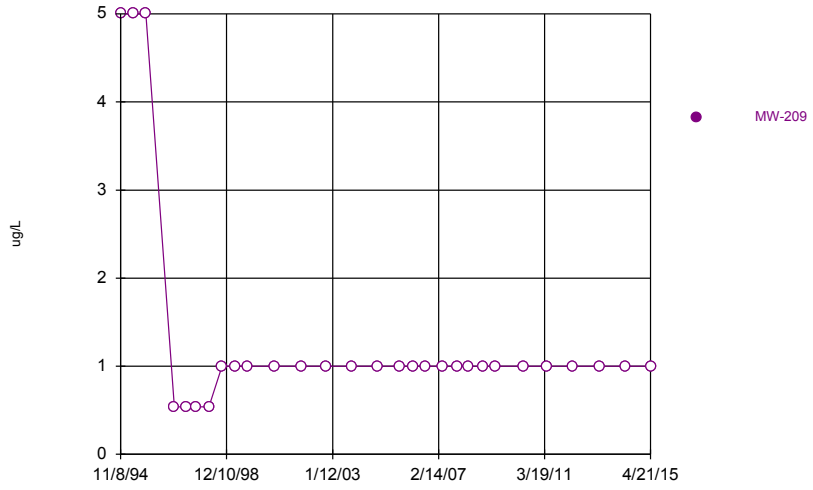
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

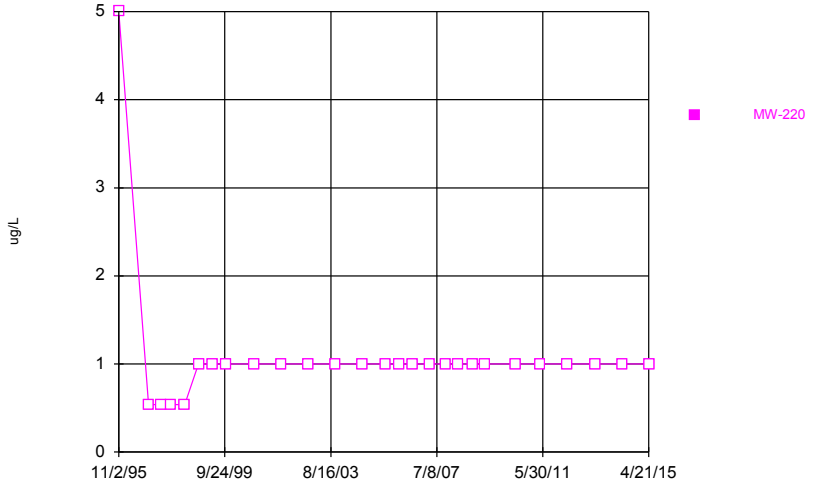
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

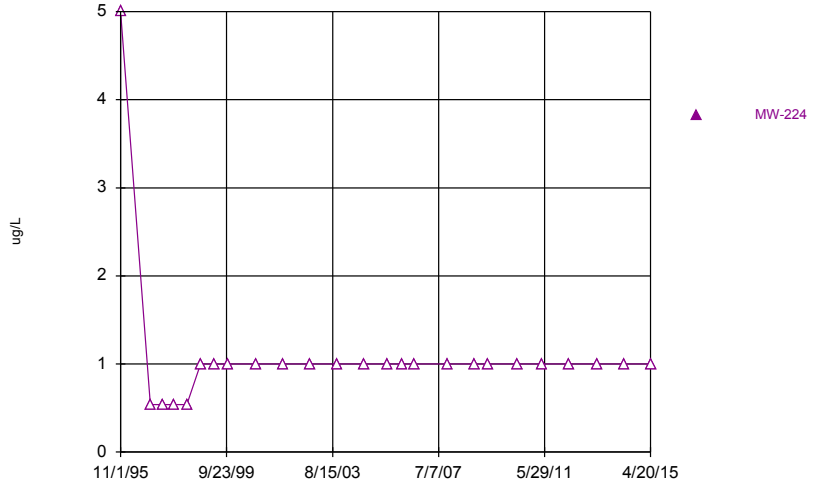
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

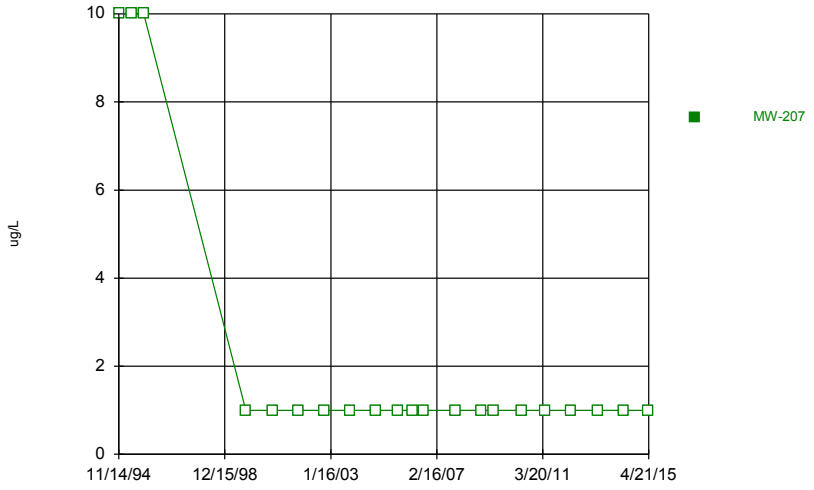
Time Series



Constituent: Trichloroethene Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

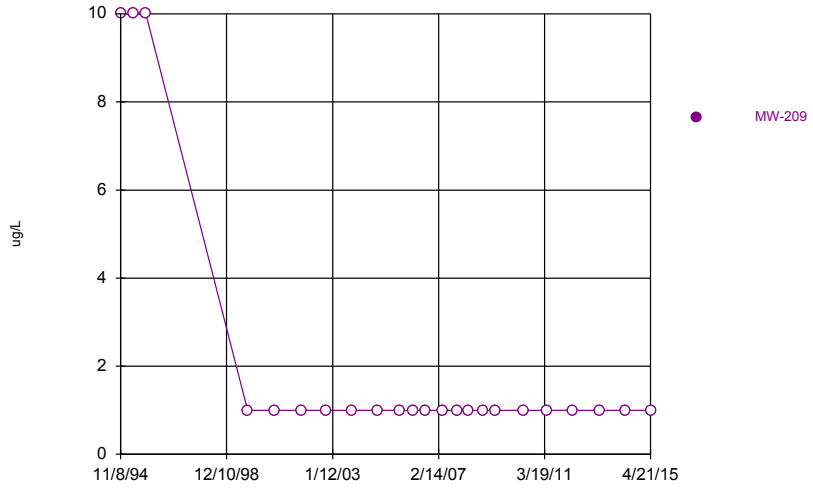
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

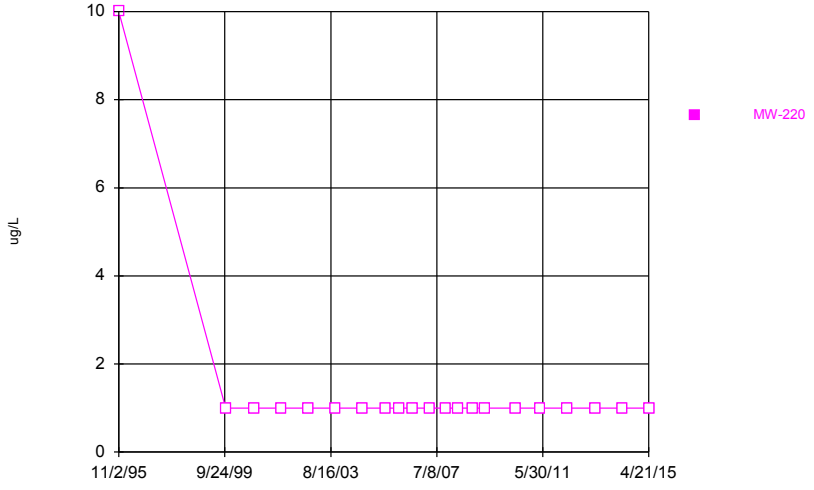
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

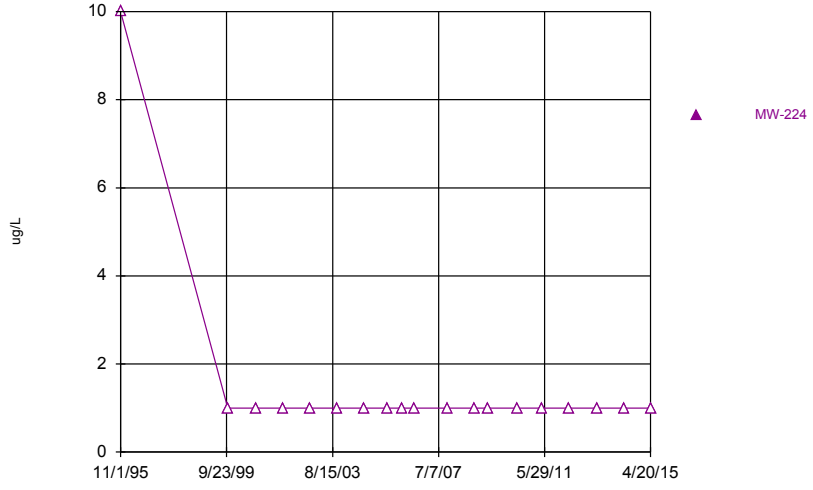
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

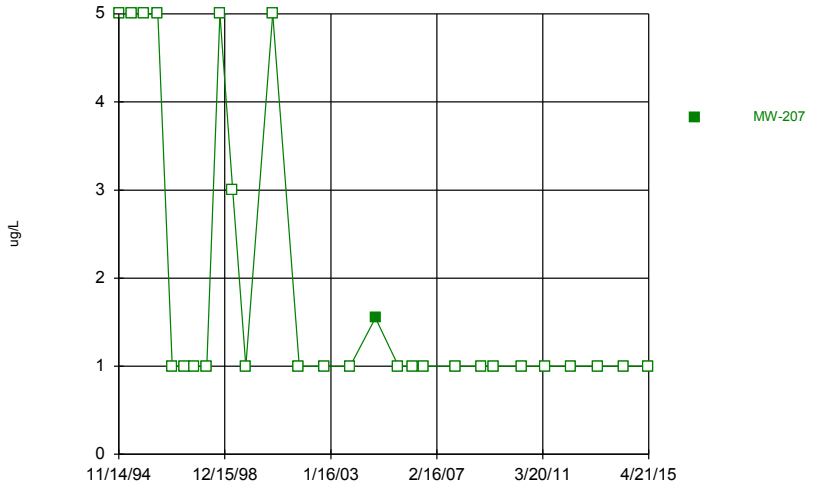
Time Series



Constituent: Vinyl chloride Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

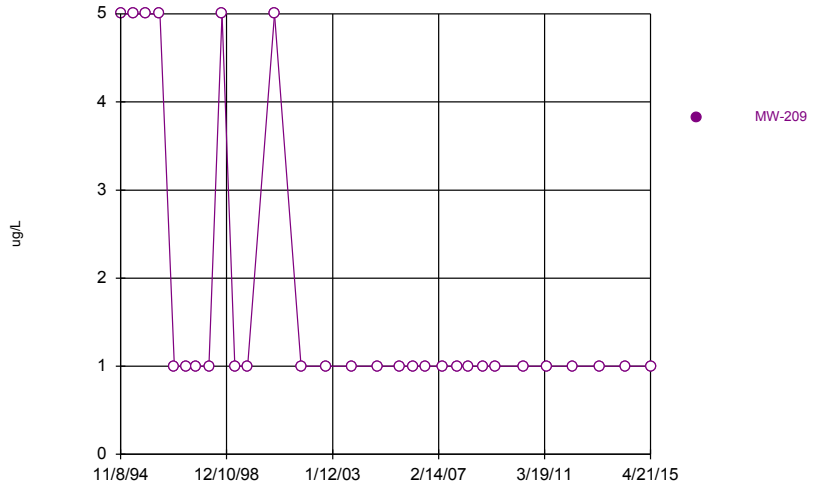
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

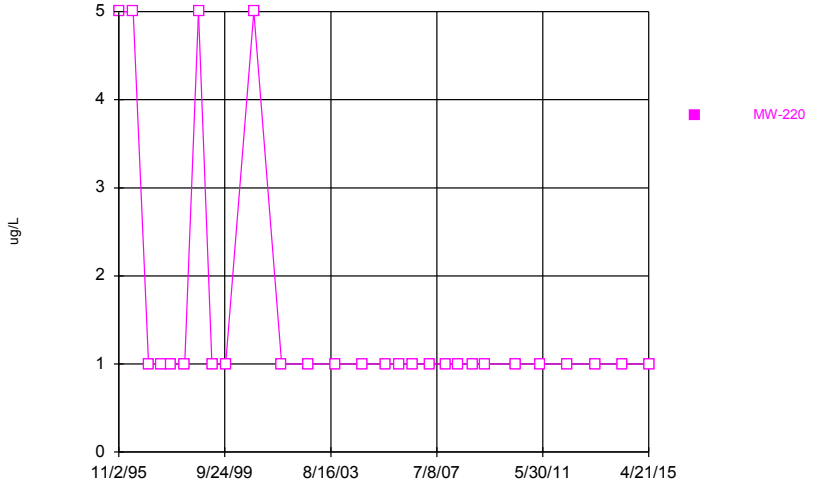
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

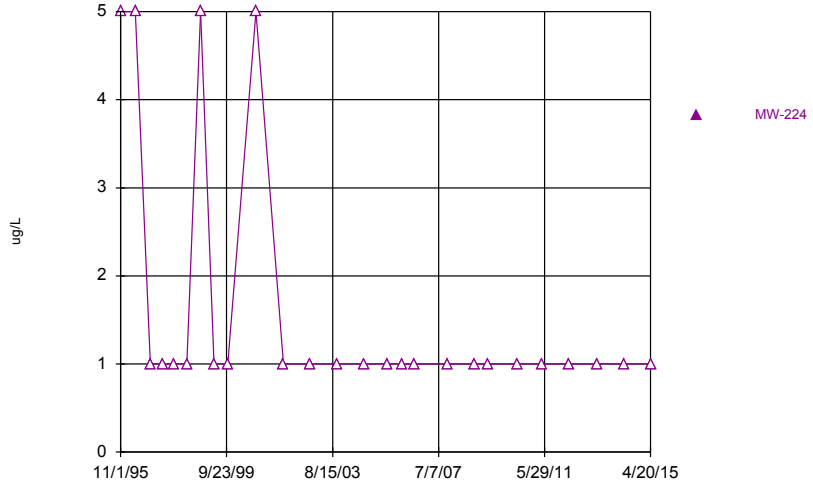
Time Series



Constituent: Xylenes [total] Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



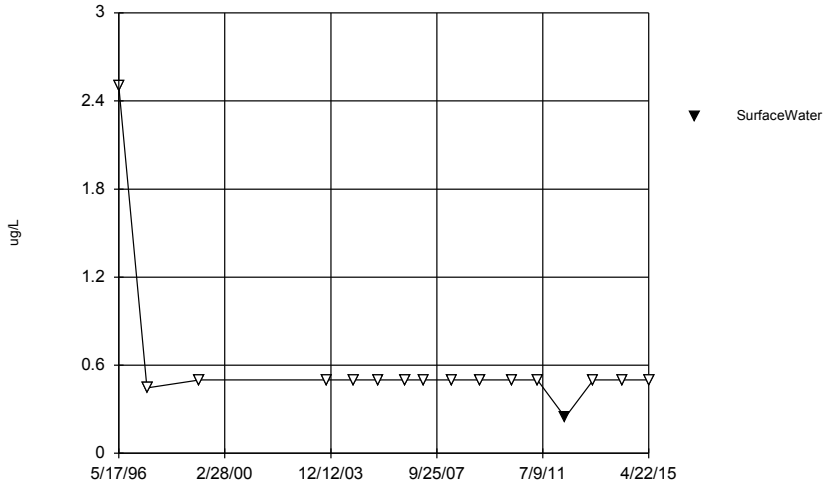
Constituent: Xylenes [total] Analysis Run 8/10/2015 11:31 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

APPENDIX F.

TIME-SERIES PLOTS OF VOC RESULTS, S&E DITCH SURFACE WATER

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

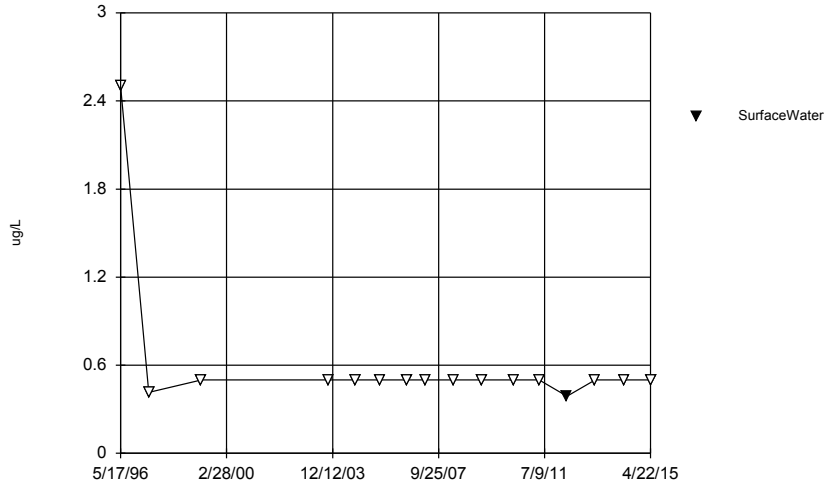
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 9/28/2015 3:40 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

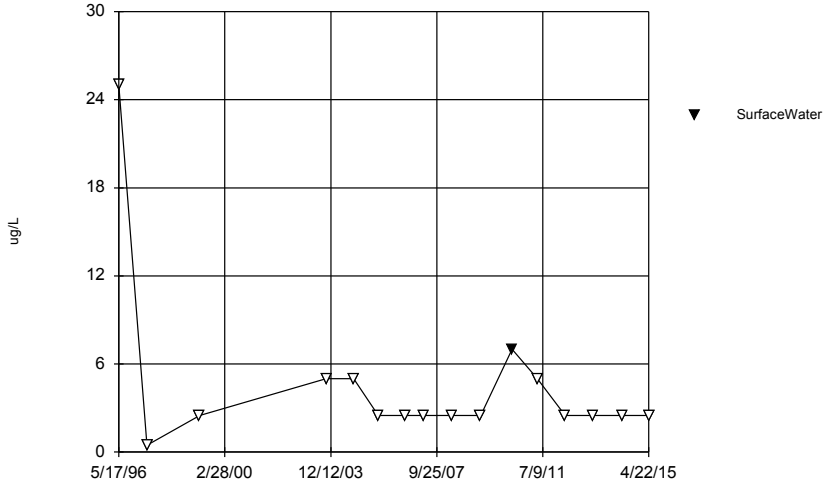
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 9/28/2015 3:40 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

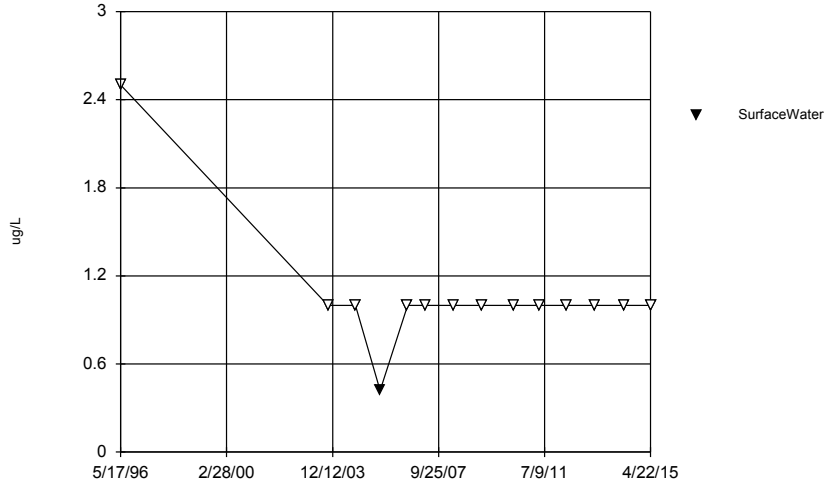
Time Series



Constituent: Acetone Analysis Run 9/28/2015 3:40 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

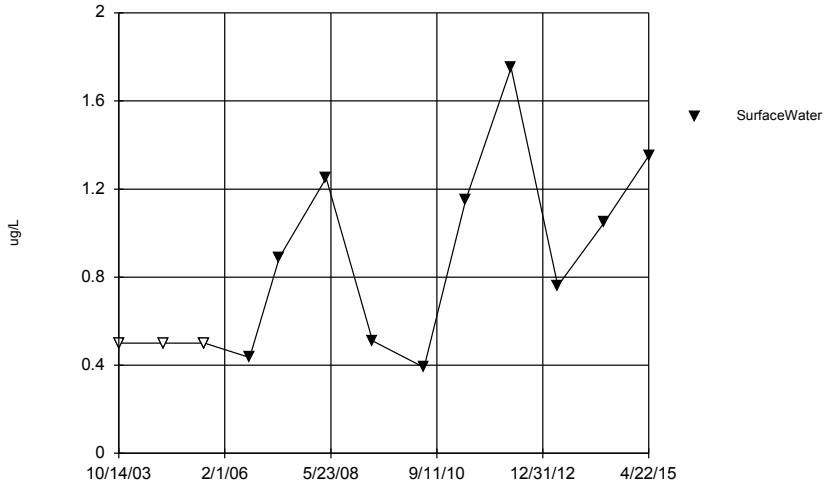
Time Series



Constituent: Carbon disulfide Analysis Run 9/28/2015 3:40 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

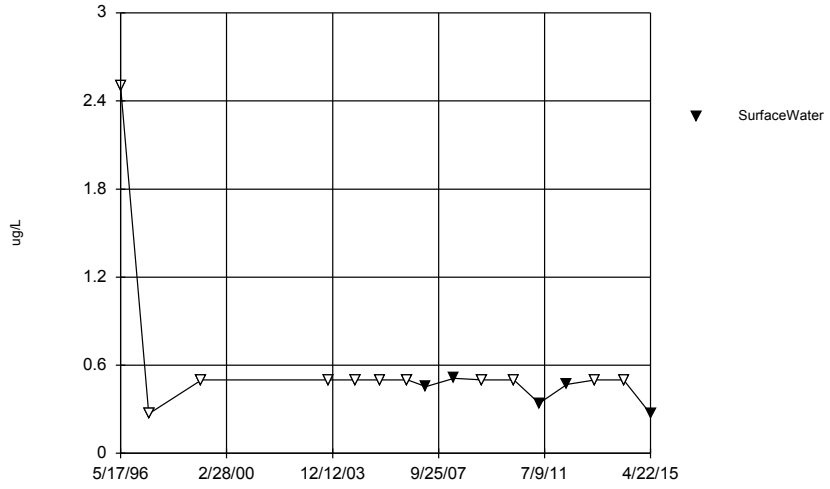
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/28/2015 3:40 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.5.17 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Trichloroethene Analysis Run 9/28/2015 3:40 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

PLATES

EAGON & ASSOCIATES, INC.

MW-107	10/7/2004	4/24/2009	6/2/2010	4/29/2011	4/24/2012	4/29/2013	5/9/2014	4/21/2015
1,1,1-Trichloroethane	195	134	122	57.9	57.1/54.3	33	19.5	27 / ND(20)
1,1-Dichloroethane	1200	1320	1600	1060	1610/1300	1340	1330	1550 / 1560
1,2-Dichloroethane	265	291	219	157	210/214	137	72.8	77.3 / 81.5
Acetone	ND(500)	ND(250)	ND(50)	ND(100)	ND(25)/ND(50)	ND(50)	ND(50)	ND(100) / ND(100)
Benzene	76.2	97.8	110	82.3	89.1/89.5	90.9	94.9	103 / 108
Chlorobenzene	53.4	63.5	68.1	54.2	51.9/51.0	55.1	58.3	62.3 / 60.3
Chloroethane	ND(50)	ND(50)	ND(10)	5.0 J	ND(5.0)/ND(10)	ND(10)	10.8	20.4 / 18.1 J
cis-1,2-Dichloroethene	281	369	434	270	208/211	104	43.7	45.1 / 54.8
Ethylbenzene	830	1230	1240	989	907/944	1030	1150	1220 / 1230
Toluene	8710	5370	5190	4040	1510/1340	2690	3440	3960 / 3940
trans-1,2-Dichloroethene	ND(50)	ND(50)	ND(10)	ND(10)	2.7 J/ND(10)	ND(10)	ND(10)	ND(20) / ND(20)
Trichloroethene	ND(50)	ND(50)	6.7 J	4.5 J	5.1/4.1 J	4.2 J	ND(10)	ND(20) / ND(20)
Vinyl chloride	ND(50)	121	119	76.3	142/143	97.8	46.8	55.4 / 60.1
Xylenes [total]	2760	4120	4090	3220	3320/2990	3390	3640	4140 / 4200

MW-108	10/7/2004	4/23/2009	6/2/2010	4/29/2011	4/24/2012	4/29/2013	5/9/2014	4/21/2015
1,1,1-Trichloroethane	3	8.8	6.7	5.3/6	6.1	5/5.3	4.8	4.4
1,1-Dichloroethane	50.7	213	244	200/234	329	299/309	315	359
1,2-Dichloroethane	59.4	68.9	67.7	59/62	68.5	67.1/67.6	75.1	70
Acetone	5.4 J	3.8 J	4.1 J	ND(10)/ND(10)	ND(5.0)	ND(5.0)/ND(5.0)	ND(5)	ND(5)
Benzene	10.7	77.2	86.9	91.7/98.6	120	126/126	136	137
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	0.27 J
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	52.8	128	155	144/156	199	201/208	210	237
Ethylbenzene	ND(1.0)	0.54 J	0.61 J	0.58 J/0.63 J	0.81 J	0.50 J/0.45 J	0.41 J	0.43 J
Toluene	ND(1.0)	0.59 J	0.69 J	0.73 J/0.83 J	1.1	1.0/0.97 J	1.1	0.95 J
trans-1,2-Dichloroethene	2	4.2	5	3.9/4.5	5.8	5.9/6.0	5.4	6.5
Trichloroethene	10.8	30.1	30.8	25.7/28.8	31	27.8/27.8	27.8	32.1
Vinyl chloride	5.5	53.2	76.8	61.2/69.5	119	115/117	130	114
Xylenes [total]	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	0.32 J	0.39 J/0.25 J	0.36 J	0.36 J

MW-4	10/4/2004	4/21/2009	6/2/2010	4/29/2011	4/24/2012	4/30/2013	5/6/2014	4/21/2015
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.5)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylenes [total]	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-113	10/7/2004	4/20/2009	6/2/2010	4/29/2011	4/24/2012	4/29/2013	5/9/2014	4/21/2015
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)	3.6 J	ND(10.0)	5.9	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.5)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylenes [total]	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-111	10/7/2004	4/23/2009	6/2/2010	4/29/2011	4/24/2012	4/30/2013	5/9/2014	4/20/2015
1,1,1-Trichloroethane	5.6	2.3	2	1.1	1.6	ND(1.0)	1.4	ND(1.0) / ND(1.0)
1,1-Dichloroethane	47.1	31.4	33.7	21.1	32.2	32.9	29.2	34.5 / 34.6
1,2-Dichloroethane	144	69.1	75.1	44.5	73.7	96.4	112	131 / 133
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0) / ND(5.0)
Benzene	0.34 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.5) / ND(0.5)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) / ND(1.0)
Chloroethane	1.6	1.4	1.4	0.88 J	1.2	1.7	1.7	1.6 / 1.5
cis-1,2-Dichloroethene	8.2	6.3	7.5	4.9	6.3	7.1	6.1	7.2 / 7.3
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(1.0) / ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) / ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) / ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) / ND(1.0)
Vinyl chloride	8.6	5.2	7	3.3	6.2	6.5	6	8.4 / 8.9
Xylenes [total]	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.2 J / 0.19 J

MW-114	10/5/2004	4/21/2009	6/2/2010	4/29/2011	4/24/2012	4/30/2013	5/7/2014	4/21/2015
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.5)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylenes [total]	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-115	10/5/2004	4/21/2009	6/2/2010	4/29/2011	4/24/2012	4/29/2013	5/7/2014	4/21/2015
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	1.3	2.5/1.8	1.9	1.7	2	2.1	1.1	1.1
1,2-Dichloroethane	ND(1.0)	ND(1.0)/ND(1.0)	0.44 J	0.46 J	ND(1.0)	0.6 J	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)/ND(5.0)	ND(5.0)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(0.5)
Chlorobenzene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	3.6	8.7/5.6	7.2	7	7.4	10.1	2.5	3.2
Ethylbenzene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.5)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.31 J	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylenes [total]	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-11	10/7/2004	4/23/2009	6/2/2010	4/29/2011	4/24/2012	4/29/2013	5/9/2014	4/21/2015
1,1,1-Trichloroethane	54.3	45.5	37.7	28.1	24.4	28	17.6	20.1
1,1-Dichloroethane	73.7	76.2	79.3	63.4	63.3	77.7	54.4	57.7
1,2-Dichloroethane	1.8	1.6	1.3	1.2	1.3	1.5	1.1	1.1
Acetone	ND(10)	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)
Benzene	0.55 J	0.7J	0.71 J	0.61 J	0.55J	0.7J	ND(0.5)	0.33 J
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	62.3	55.5	59.2	50.7	44.2	57.5	33.3	32.1
Ethylbenzene	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(1)
Toluene	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
trans-1,2-Dichloroethene	2	2.4	2.4	1.9	1.6	2.1	0.88 J	1.1
Trichloroethene	186	122	101	95.9	75.6	88.9	36.9	45.9
Vinyl chloride	2.2	5	5.2	6.1	4.1	6.2	2.8	3.6
Xylenes [total]	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)

LEGEND

PROPERTY BOUNDARY
PIPE AND MEDIA DRAIN
CHAIN LINK FENCE
MONITORING WELL
PIEZOMETER
WET WELL
ACCESS MANHOLE

WELL DESIGNATION
SAMPLING DATE

MW-224	10/7/2004	4/21/20015
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)
Xylenes [total]	ND(1.0)	ND(1.0)

SSIPL COMPOUNDS
CHEMICAL CONCENTRATION IN µg/L

SSIPL = SITE SPECIFIC INDICATOR PARAMETER LIST

CONCENTRATION CODES

- J — ESTIMATED VALUE
- \- — NOT ANALYZED
- ND( ) — THE ANALYTE WAS NOT DETECTED ABOVE THE REPORTED SAMPLE QUANTITATION LIMIT LISTED IN PARENTHESES
- µg/L — MICROGRAMS PER LITER
- [5.9/6.3] — ORIGINAL/DUPLICATE RESULTS, WHERE AVAILABLE

0 50 100
GRAPHIC SCALE IN FEET

SUMMIT NATIONAL SUPERFUND SITE
SUMMIT COUNTY, OHIO

COMPILED BY: MAM	PLATE TITLE: FIGURE 1. WATER TABLE UNIT SHUTDOWN GROUNDWATER MONITORING (2004 & 2009-2015)		
DRAWN BY: MAM	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE DEERFIELD, OHIO		
CHECKED BY: ADG	PREPARED BY: EAGON & ASSOCIATES, INC. 100 OLD WILSON BRIDGE ROAD, SUITE 115 WORTHINGTON, OHIO 43085		PLATE NUMBER: 1
APPROVED BY: MTG			
DATE: MAY 29, 2015			

F:\AUTOCAD\SUMMIT\SUMMIT-NATIONAL-BASEMAP.DWG

MW-207	10/7/2004	4/24/2009	6/2/2010	4/29/2011	4/24/2012	4/30/2013	5/9/2014	4/21/2015
1,1,1-Trichloroethane	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
1,1-Dichloroethane	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
1,2-Dichloroethane	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
Acetone	N(0.10)/N(0.10)	N(0.5.0)	N(0.5.0)/N(0.5.0)	N(0.10)/N(0.10)	N(0.5.0)	N(0.5.0)/N(0.5.0)	N(0.5.0)	N(0.5.0)
Benzene	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.0.5)	N(0.0.5)
Chlorobenzene	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
Chloroethane	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
cis-1,2-Dichloroethene	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
Ethylbenzene	0.56 /0.57 J	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.0.5)	N(0.1.0)
Toluene	6.7/6.2	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
trans-1,2-Dichloroethene	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
Trichloroethene	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
Vinyl chloride	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)
Xylenes [total]	1.6/1.5	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)

MW-220	10/5/2004	4/21/2009	6/2/2010	4/29/2011	4/24/2012	4/30/2013	5/6/2014	4/21/2015
1,1,1-Trichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
1,1-Dichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
1,2-Dichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Acetone	N(0.10)	N(0.5.0)	13.8	N(0.10)	N(0.5.0)	N(0.5.0)	N(0.5.0)	N(0.5.0)
Benzene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.0.5)	N(0.0.5)
Chlorobenzene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Chloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
cis-1,2-Dichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Ethylbenzene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.0.5)	N(0.1.0)
Toluene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
trans-1,2-Dichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Trichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Vinyl chloride	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Xylenes [total]	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)

MW-209	10/8/2004	4/20/2009	6/2/2010	4/29/2011	4/24/2012	4/30/2013	5/6/2014	4/21/2015
1,1,1-Trichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
1,1-Dichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
1,2-Dichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
Acetone	3.2 J	14.4	9.6/9.1	N(0.10)	N(0.5.0)/N(0.5.0)	12.8	9.3/10	5.1
Benzene	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0/0.5)/N(0/0.5)	N(0.0.5)
Chlorobenzene	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
Chloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
cis-1,2-Dichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
Ethylbenzene	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0/0.5)/N(0/0.5)	N(0.1.0)
Toluene	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	0.39 J
trans-1,2-Dichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
Trichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
Vinyl chloride	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)
Xylenes [total]	N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)	N(0.1.0)/N(0.1.0)	N(0.1.0)

MW-224	10/7/2004	4/24/2009	6/2/2010	4/29/2011	4/24/2012	4/30/2013	5/9/2014	4/21/2015
1,1,1-Trichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
1,1-Dichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
1,2-Dichloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Acetone	N(0.10)	N(0.5.0)	N(0.5.0)	N(0.10)	N(0.5.0)	N(0.5.0)	N(0.5.0)	N(0.5.0)
Benzene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.0.5)	N(0.0.5)
Chlorobenzene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Chloroethane	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
cis-1,2-Dichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Ethylbenzene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0/0.5)	N(0.1.0)
Toluene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
trans-1,2-Dichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Trichloroethene	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Vinyl chloride	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)
Xylenes [total]	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)	N(0.1.0)

LEGEND

- PROPERTY BOUNDARY
- PIPE AND MEDIA DRAIN
- CHAIN LINK FENCE
- MONITORING WELL
- PIEZOMETER
- WET WELL
- ACCESS MANHOLE

WELL DESIGNATION

SAMPLING DATE

MW-224	10/7/2004	4/21/20015
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)
Xylenes [total]	ND(1.0)	ND(1.0)

SSIPL COMPOUNDS

CHEMICAL CONCENTRATION IN µg/L

SSIPL = SITE SPECIFIC INDICATOR PARAMETER LIST

CONCENTRATION CODES

J ESTIMATED VALUE

\- NOT ANALYZED

ND( ) THE ANALYTE WAS NOT DETECTED ABOVE THE REPORTED SAMPLE QUANTITATION LIMIT LISTED IN PARENTHESES

µg/L MICROGRAMS PER LITER

[5.9/6.3] ORIGINAL/DUPLICATE RESULTS, WHERE AVAILABLE

NOTES

1) DATABOXES SHOW 5-YEAR SAMPLING EVENT RESULTS PLUS ANY ANNUAL SSIPL RESULTS SINCE 2009.

2) LAST 5-YEAR SAMPLING EVENT - 2014.

0 50 100

GRAPHIC SCALE IN FEET

SUMMIT NATIONAL SUPERFUND SITE
SUMMIT COUNTY, OHIO

COMPILED BY: MAM	PLATE TITLE: PLATE 2. UPPER INTERMEDIATE UNIT SHUTDOWN GROUNDWATER MONITORING (2004 & 2009-2015)	
DRAWN BY: MAM	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE *DEERFIELD, OHIO*	
CHECKED BY: ADG	PREPARED BY: *EAGON & ASSOCIATES, INC.* *100 OLD WILSON BRIDGE ROAD, SUITE 115* *WORTHINGTON, OHIO 43085*	PLATE NUMBER: 2
APPROVED BY: MTG		
DATE: MAY 29, 2015		

E:\AUTOCAD\XS\SUMMIT\NATIONAL\SUMMITNATIONAL-BASEMAP.DWG