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October 31, 2018

VIA EMAIL & HARDCOPY

Ms. Megan Oravec
Ohio EPA – Division of Environmental Response & Revitalization
2110 East Aurora Avenue
Twinsburg, Ohio 44087

RE: 2018 Annual Monitoring Results
Summit National Superfund Site
Deerfield, Ohio

Dear Ms. Oravec:

On behalf of the Summit National Facility Trust (SNFT), transmitted herewith is one electronic copy of Eagon & Associates, Inc.'s (Eagon) report entitled: "2018 Annual Monitoring Results, Summit National Superfund Site." Two hardcopies of the report also are being sent to your office. The report presents the results of groundwater, surface water, and ditch sediment sampling activities performed in April 2018. 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 parameter list (SSIPL) of constituents specified in Eagon'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 2018 results demonstrate that no maximum contaminant levels (MCLs) were exceeded in the off-site sentinel wells; therefore, no contingency measures are necessary. Shutdown of the treatment system has not resulted in the migration of contaminants to off-site areas and the resumption of active groundwater extraction operations is not warranted.

Next year's monitoring event will be a five-year monitoring event and is scheduled to occur in spring 2019. Details of the five-year sampling event are described in the "Monitoring Schedule" section located at the end of the attached report. The results of the five-year monitoring events are used, in part, to evaluate if any changes to the monitoring program are warranted.

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

Sincerely,

Michael T. Gibson, CPG
SNSS Project Coordinator
Associate Hydrogeologist

encl.
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2018 ANNUAL MONITORING RESULTS
SUMMIT NATIONAL SUPERFUND SITE

Prepared for:

SUMMIT NATIONAL SUPERFUND SITE
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Prepared by:

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October 2018

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INTRODUCTION

This report presents the results from the April 2018 annual monitoring event performed at the Summit National Superfund Site (SNSS; Site) in Deerfield, Ohio. The sampling event was completed April 9 and 10, 2018 by personnel from Eagon and Associates, Inc. (Eagon).

The April 2018 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 again concurred with the current SSIPL in their April 3, 2018 letter summarizing their review of the October 2017 report for the April 2017 annual monitoring event. In addition, on July 13, 2018, U.S. EPA issued their "Fifth Five-Year Review Report" for the facility in which the agency concluded the remedy, including institutional controls (ICs), implemented at the Site remains protective and no changes were recommended.

Groundwater samples were collected from the 12 wells that make up the annual groundwater monitoring network. In addition, sediment and surface water samples were collected at the confluence 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, and surface water and sediment sampling points are shown on Figure 1.

Laboratory analyses for the event were performed by TestAmerica Laboratories, Inc. of North Canton, Ohio (TestAmerica). 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, and ongoing oversight by Ohio EPA, the results from the April 2018 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 have also been evaluated for any significant changes that may have occurred since the five-year monitoring event in May 2014. In addition, an evaluation of hydraulic monitoring results collected 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 9, 2018, prior to initiating purging and sampling activities at any of the monitoring wells. The total depths of each monitoring well to be sampled during the event also were measured at that time. Water-level measurements were collected using a portable electric tape and were recorded to the nearest 0.01 foot (Table 1). Total-depth measurements were sounded using the same tape.

Purging and Sampling of Monitoring Wells

Monitoring well purging and sampling methods 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, as modified per Ohio EPA correspondence dated April 28, 2010) and standard practices employed at the Site historically. Prior to sampling, at wells with sufficient recharge rates, a minimum of three standing water-column volumes within the riser casing and screen were evacuated from wells. Low-yielding wells were purged to dryness prior to sampling. The monitoring wells were purged using Waterra-brand "Hydrolift" equipment and dedicated tubing and foot valves. The methods and procedures used at each well are recorded 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. All field 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 prior to sample collection.

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.

Following purging, all monitoring wells were sampled using a non-dedicated stainless-steel bailer that was thoroughly decontaminated before use at each well. Once sampling was complete, any dedicated purging equipment (e.g., foot valves and discharge tubing) was placed back into the wells for storage between events. The non-dedicated stainless-steel bailers were 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 Carbon Limestone Landfill in Lowellville, Ohio for disposal.

Surface Water and Sediment Sampling

The surface water sample (S&E Ditch) 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 Terra 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) solution, then thoroughly rinsed with distilled or deionized water between wells. The stainless steel bailers also were 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 clean, dedicated, capped PVC sleeves when not in use.

Sample Control and Analysis

Sample containers filled at each sample point were labeled and placed in coolers with bags of ice prior to shipment. Coolers were hand-delivered on ice to TestAmerica's laboratory in North Canton, Ohio. 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 2018 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). The results for two analytes (3,3'-Dichlorobenzidine and Hexachlorocyclopentadiene) were rejected for the sediment samples due to low recoveries in the matrix spike/matrix spike duplicate. Neither analyte was detected in the sediment in April, which

is consistent with historical results. None of the groundwater or surface water 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 April 2018 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 levels (MCLs) are detected in the Sentinel wells (off-site downgradient WTU monitoring wells MW-114 and MW-115), [Summit National Facility Trust] 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

The laboratory analytical report for the groundwater monitoring event is presented in Appendix A. Historic groundwater analytical results are displayed graphically in Appendix D.

Electronic database files containing all historic results are maintained by Eagon & Associates, Inc. and are available upon request.

Summaries of SSIPL VOC results for the WTU and UIU annual event monitoring wells in 2004, prior to system shutdown, and since the beginning of the annual monitoring schedule in 2009 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 displayed graphically in Appendix D. No new VOC detections were identified in these wells and there were no quantified concentrations observed for any SSIPL VOC during the event (Table 2); no VOCs were detected at or above their respective practical quantitation limits (PQLs). Table 3 summarizes estimated (below PQL) detections of SSIPLs at the sentinel wells and presents a comparison with MCLs, where applicable. No MCL was approached or exceeded; therefore, the April 2018 results for the off-site sentinel wells MW-114 and MW-115 confirm 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 2018 annual sampling event, are shown on time-series plots presented in Appendix D. 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: Results at this interior well were generally unchanged from 2017 or were within the range of recent concentrations observed at the well. Most routinely detected constituents display overall downward concentration trends since as early as 1999. In April 2018, quantified detections were

reported for 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Trichloroethene, and Vinyl Chloride (Table 2, Plate 1).

MW-107: Concentrations for seven of the 12 routinely detected constituents at this interior well remain at or near their all-time low observed concentrations and no significant increasing trends were observed. In general, groundwater quality conditions at MW-107 display notable improvement since 2004. For the April 2018 event, quantified detections were reported for 1,1,1-Trichloroethane, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Ethylbenzene, Toluene, trans-1,2-Dichloroethene, Trichloroethene, Vinyl Chloride, and Xylenes.

MW-108: MW-108 continues to show improving conditions observed during recent monitoring events. All quantified detections in April 2018 were near or below recent lows going back as far as 2006, in some cases. Quantified detections were reported for 1,1-Dichloroethane, 1,2-Dichloroethane, Benzene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Trichloroethene, and Vinyl Chloride.

MW-111: All four constituents with quantified detections were within the range of recent concentrations observed at this well and no upward trends are apparent. Quantified detections were reported for 1,1-Dichloroethane, 1,2-Dichloroethane, cis-1,2-Dichloroethene, and Vinyl Chloride.

MW-113: No SSIPL VOCs were detected in MW-113 during the event, which is consistent with historical results.

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

No quantified detections were reported for any SSIPL compounds in the three off-Site WTU wells sampled during the event, including sentinel wells MW-114 and MW-115.

UIU On-Site Wells (MW-207 and MW-224)

No SSIPL compounds were detected in the on-Site UIU wells sampled in April 2018, which is consistent with previous monitoring results.

UIU Off-Site Wells (MW-209 and MW-220)

No quantified detections were reported for any SSIPL compounds in the two off-Site UIU wells sampled during the event.

HYDRAULIC MONITORING

Groundwater levels in the WTU and UIU monitoring wells and piezometers at the Site were measured on April 9, 2018 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 surfaces for the WTU and UIU are presented on Figures 2 and 3, respectively. 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 2018 hydraulic monitoring data demonstrate that the direction of groundwater flow was predominantly southeasterly in the WTU, consistent with past observations. Groundwater flow in the UIU was predominantly toward the east, with 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 that 2018 groundwater levels were similar to 2017 and continue to verify that rising water-level trends observed after system shutdown in 2005 have stabilized in both the WTU and UIU. Water-level elevations during the event ranged from approximately 1076 to 1100 ft-MSL in the WTU and 1077 to 1097 ft-MSL in the UIU.

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 off-site groundwater in any of the groundwater units; including before any remedial action at the Site and during the 11 years of active groundwater pumping operations. On June 10, 2005, a "Work Plan for Groundwater Migration Evaluation" was submitted to Ohio EPA that included post-shutdown evaluation monitoring. 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 SSIPL events were performed in 2010 through 2013. Another site-wide five-year monitoring event was completed in May 2014 and subsequent annual SSIPL monitoring events have continued since 2014. All post-shutdown monitoring, including the April 2018 sampling results presented herein, have demonstrated that the cessation of pumping operations in 2005 has not resulted in detrimental impacts to groundwater quality off-site. Plates 1 and 2 present a summary of the detected SSIPL VOC concentrations for the shutdown evaluation period through April 2018 in 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 groundwater flow conditions have been observed at the Site since system shutdown.

SURFACE WATER AND SEDIMENT MONITORING

Surface water and sediment samples were collected in April 2018 at the confluence of the south and east drainage ditches (Figure 1). A summary table of the results for the S&E Ditch surface water samples is presented on Table 4. Table 5 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.

Surface Water

No TCL VOCs or SVOCs were present at concentrations at or above their respective PQLs in the April 2018 surface water sample. Time-series concentration plots for VOCs detected in the surface water since 1996 are presented in Appendix E.

Sediment

The sediment samples included several polycylic aromatic hyrdocarbons (PAHs) that were detected at or above their respective PQLs, including 2-Methylnapthalene, Anthracene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]flouranthene, Benzo[g,h,i]perylene, Benzo[k]flouranthene, Chrysene, Dibenz(a,h)anthracene, Dibenzofuran, Flouranthene, Flourene, Indeno[1,2,3-cd]pyrene, Naphthalene, Phenanthrene, and Pyrene. The April 2018 list of detected constituents was consistent with recent results. Detections of PAHs in the sediment samples are attributed to past coal mining activities in the area.

Table 5 shows the sediment sampling results from the April 2018 event compared with U.S. EPA Regional Screening Levels (RSLs; May 2018) for soil. As shown on the table, none of

the quantified sediment concentrations exceeded either residential or industrial RSLs in April 2018.

No VOCs were detected in the sediment samples.

Based on the results of the surface water and sediment samples from the April 2018 sampling event, there are no significant impacts to surface water or sediment quality as the result of the Site.

INSTITUTIONAL CONTROLS – ANNUAL CERTIFICATION

SNFT received U.S. EPA's Fifth Five-Year Review Report (Report) on July 13, 2018. 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 with the Portage County Recorder on June 5, 2013. 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, including observations regarding changes in land use, surface water or groundwater use, or any inconsistent uses of the property, are recorded on the Quarterly Institutional Controls Inspection Report and maintained on-site by the SNFT.

Through submission of this 2018 groundwater monitoring report for the annual monitoring event completed in April 2018, the SNFT certifies that the Institutional Controls are in place and effective.

CONCLUSIONS

The monitoring results from the April 2018 monitoring event at the SNSS demonstrate that there continues to be no indication of significant migration of Site constituents off-site since cessation of pump-and-treat operations in 2005. Correspondingly, evaluation of the 2010 performance criteria for continued shutdown of the groundwater extraction system shows that those conditions remain satisfied. No MCLs were exceeded in off-site sentinel wells; therefore, no contingency measures are necessary. The April 2018 monitoring results also support the continuation of the current groundwater monitoring approach for the Site.

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 detected constituents remain significantly below actionable levels.

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 potential that Site constituents may be migrating away from the Site.

MONITORING SCHEDULE

2019 monitoring activities will include the five-year sampling event that was last performed in May 2014. Samples will be collected from a total of 51 monitoring wells installed in all four monitoring zones at the Site will be sampled and analyzed for the Target Compound

List/Target Analyte List (TCL/TAL) constituents specified in the QAPP as modified in April 2010. In addition, it is planned that samples will be collected from three off-site residential wells and the on-site non-potable supply well. The residential wells will be analyzed for the 2015-2018 SSIPL VOCs, plus bis (2-Ethyhexyll) phthalate. The on-site non-potable supply well will be analyzed for all TCL/TAL constituents included in the groundwater monitoring event. The 2019 five-year monitoring event is tentatively scheduled for spring of 2019.

In addition, 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 surface water and sediment sampling event also is scheduled for spring 2019.

FIGURES

Compiled by: MAM	Figure Title: Figure 1. Site Map
Created by: MAM	Project Title: SUMMIT NATIONAL SUPERFUND SITE
Checked By: ADG	Prepared By: EAGON & ASSOCIATES, INC.
Approved By: MTG	Figure: 1
Date: 6/27/2017	

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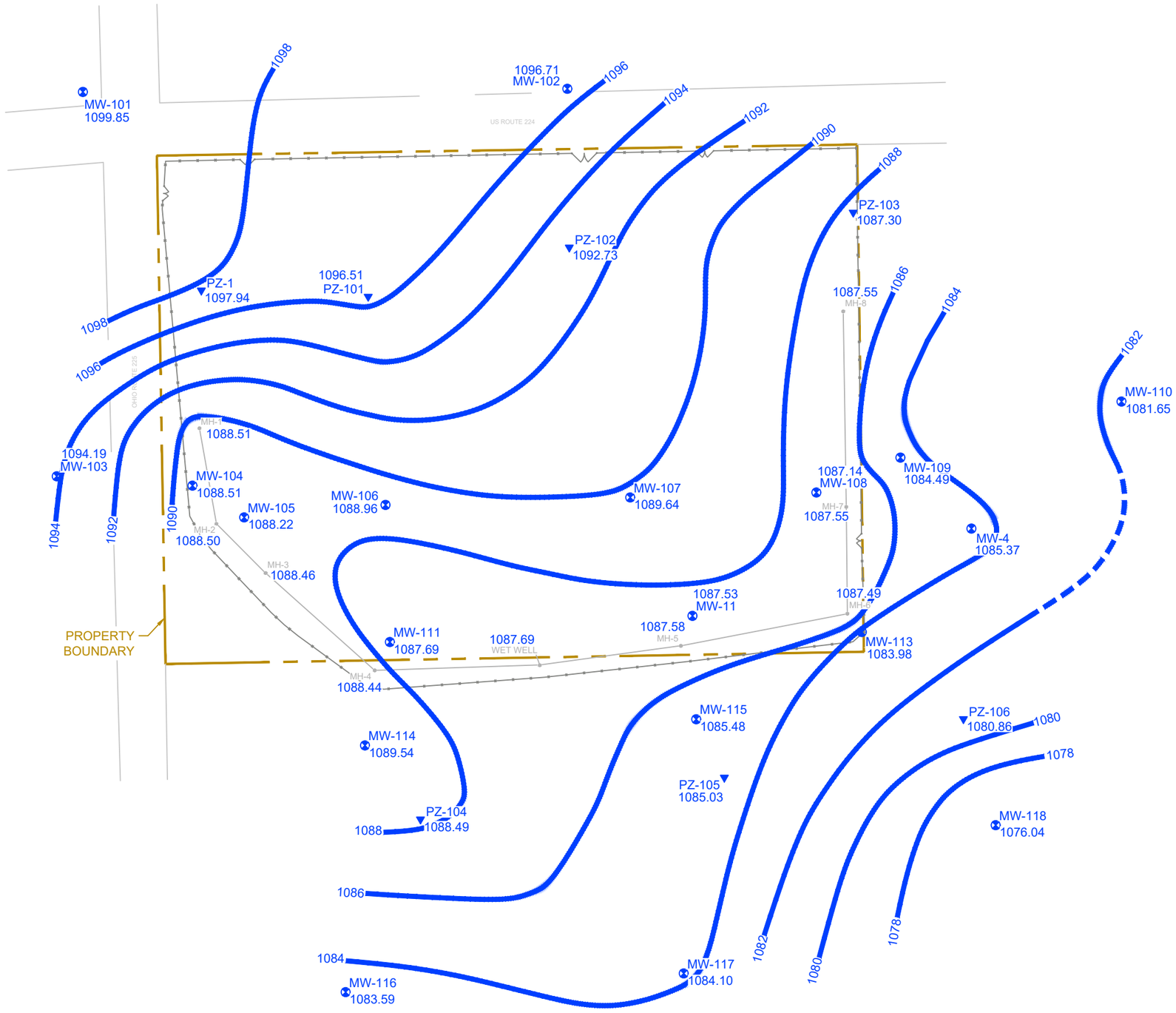

LEGEND

- MONITORING WELL
- PIEZOMETER
- MEDIA DRAIN MANHOLES

1090 GROUNDWATER ELEVATION CONTOUR

SCALE IN FEET

0 125 250

COMPILED BY: AB	FIGURE TITLE: POTENTIOMETRIC SURFACE OF THE WATER TABLE UNIT, APRIL 9, 2018
DRAFTED BY: AB	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE
CHECKED BY: MTG	PREPARED BY: EAGON & ASSOCIATES, INC.
APPROVED BY: MTG	FIGURE NUMBER: 2
DATE: 4/9/2018	

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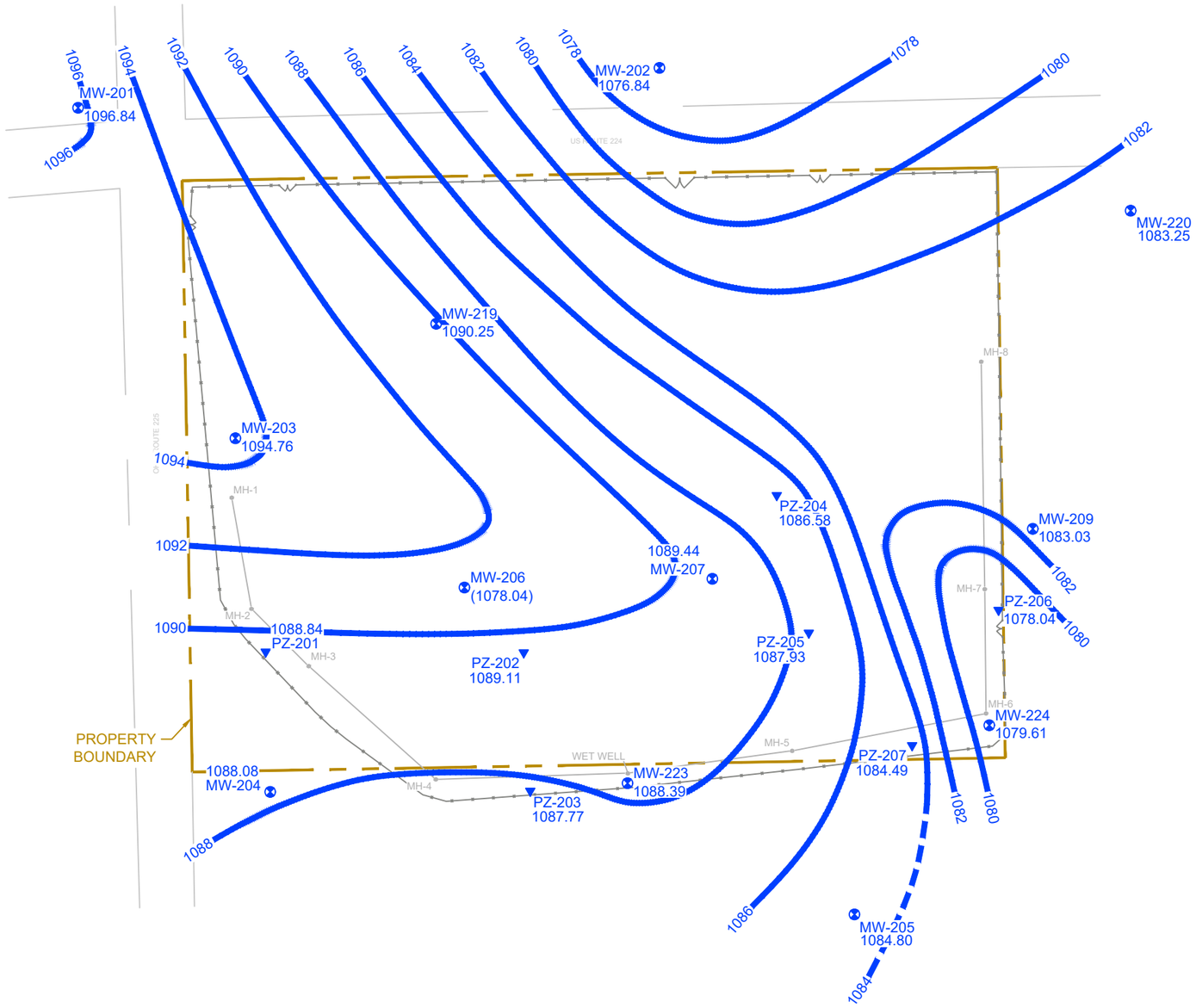

LEGEND

- MONITORING WELL
- PIEZOMETER
- MEDIA DRAIN MANHOLES

1090 — GROUNDWATER ELEVATION CONTOUR

(1077.10) — WATER LEVEL NOT USED FOR CONTOURING

SCALE IN FEET

0 125 250

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DRAFTED BY: AB	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE
CHECKED BY: MTG	PREPARED BY: EAGON & ASSOCIATES, INC.
APPROVED BY: MTG	FIGURE NUMBER: 3
DATE: 4/9/2018	

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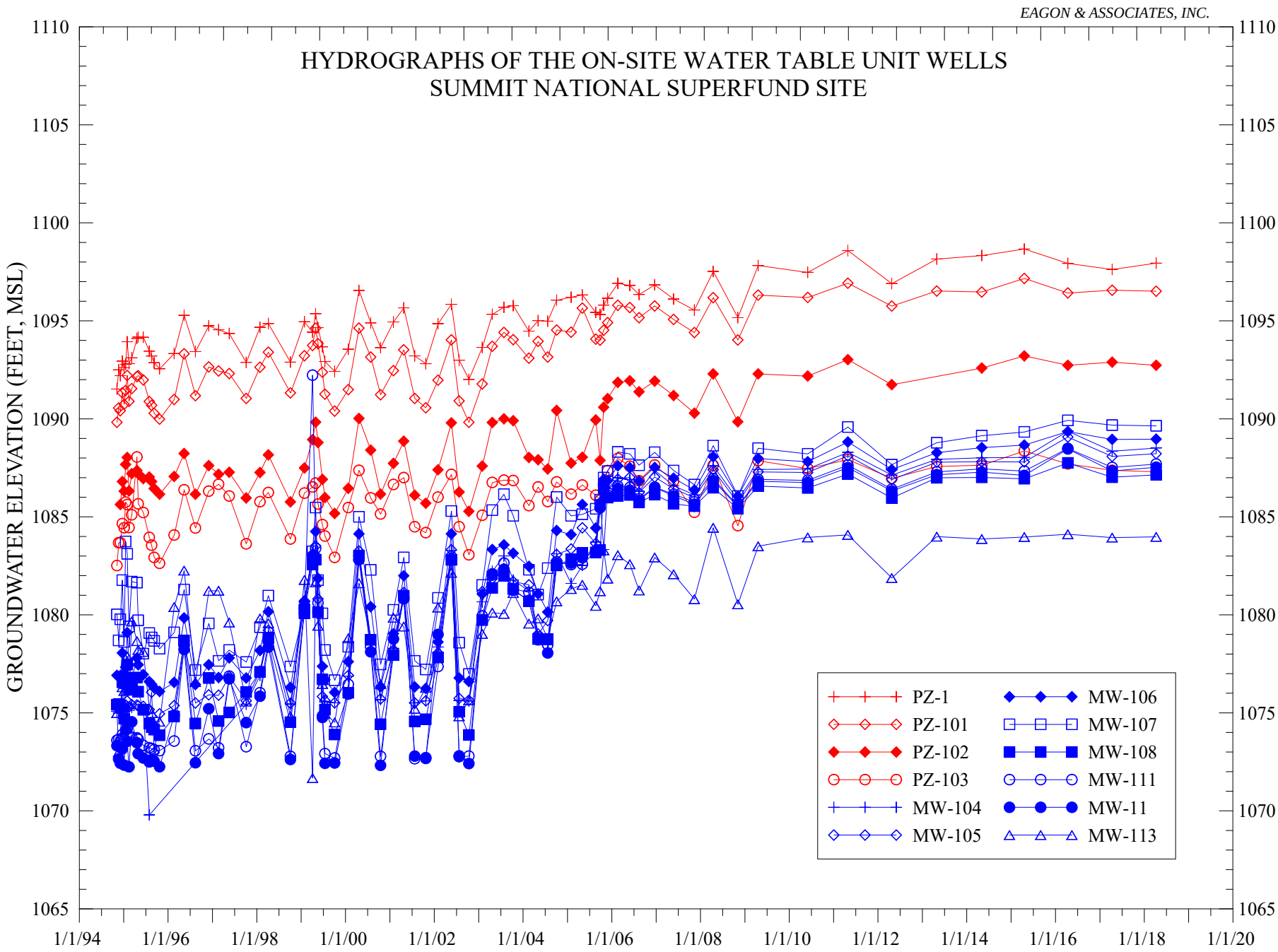
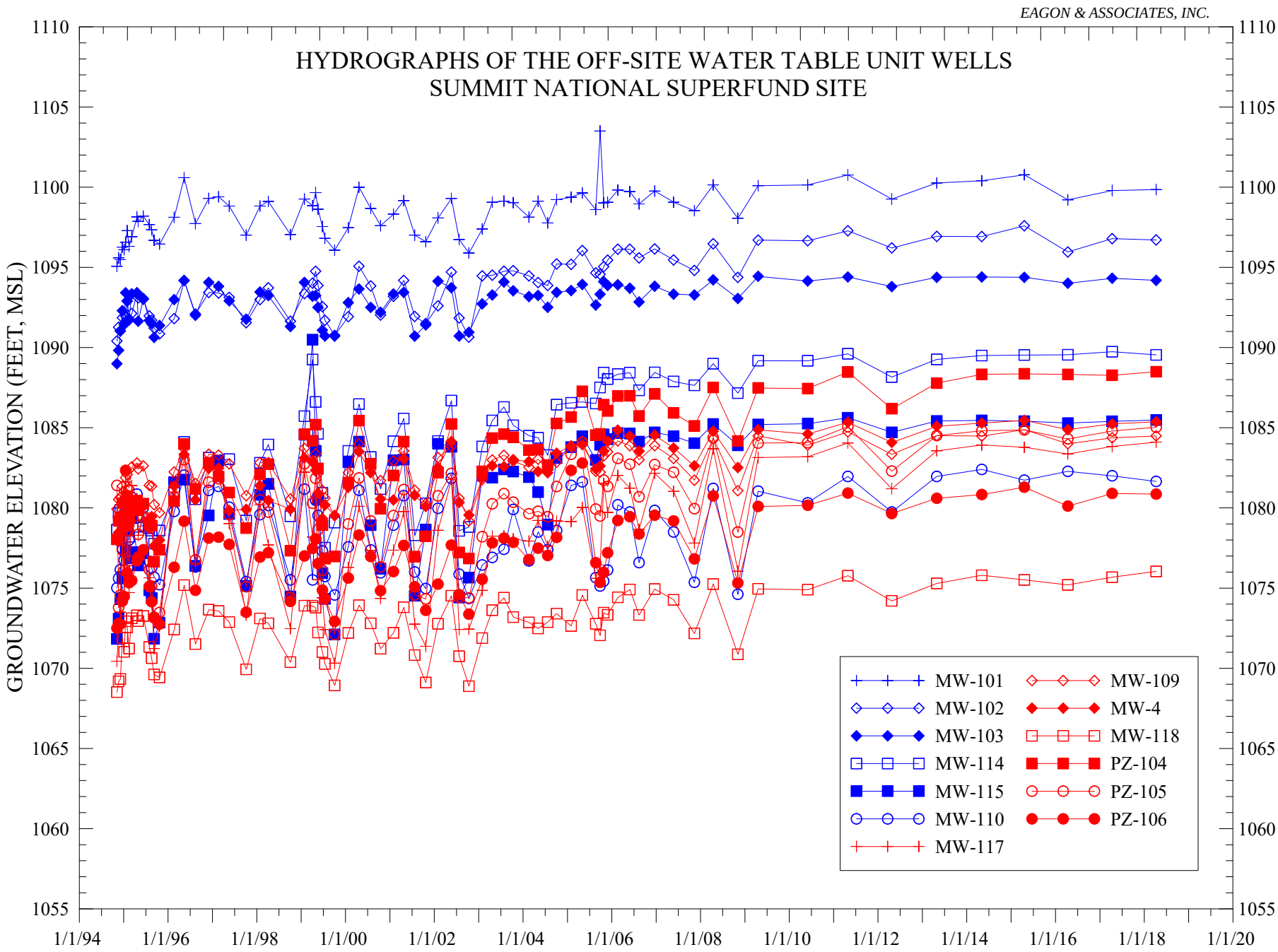


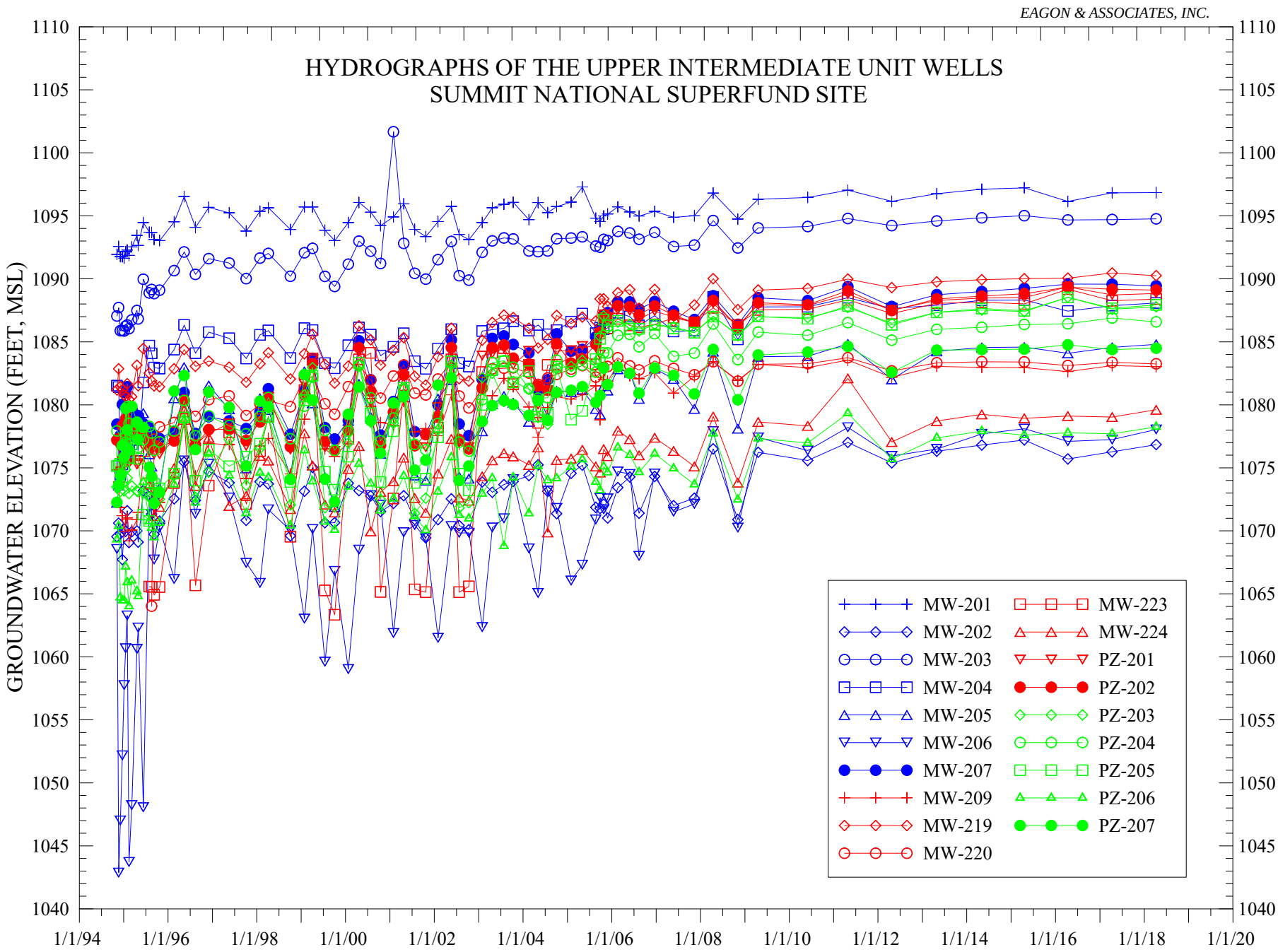
WTUhydsOnSite.GRF
9/25/18

FIGURE 4.



WTUhydsOffSite.GRF
9/25/18

FIGURE 5.



UIUhyds.GRF
9/25/18

FIGURE 6.

TABLES

TABLE 1. SUMMARY OF WATER-LEVEL MEASUREMENTS
SUMMIT NATIONAL SUPERFUND SITE
APRIL 9, 2018

Well Number	Measuring Point Elevation (ft., MSL)	Time (24:00)	Depth to Water (feet)	Water Level Elevation (ft., MSL)	Total Well Depth (ft., TOC)
Water Table Unit (WTU) Monitoring Wells and Piezometers					
MW-4	1091.09	1036	5.72	1085.37	24.57
MW-11	1095.93	0942	8.40	1087.53	26.42
MW-101	1107.57	1036	7.72	1099.85	--
MW-102	1100.17	1005	3.46	1096.71	--
MW-103	1096.22	1041	2.03	1094.19	--
MW-104	1099.81	1002	11.30	1088.51	--
MW-105	1101.32	1000	13.10	1088.22	--
MW-106	1102.88	1021	13.92	1088.96	--
MW-107	1098.27	1028	8.63	1089.64	31.00
MW-108	1091.96	0928	4.82	1087.14	18.45
MW-109	1087.42	1039	2.93	1084.49	--
MW-110	1086.87	1056	5.22	1081.65	--
MW-111	1099.67	0953	11.98	1087.69	29.32
MW-113	1088.46	0937	4.48	1083.98	16.45
MW-114	1097.27	1114	7.73	1089.54	21.39
MW-115	1101.83	1100	16.35	1085.48	40.98
MW-116	1105.54	1047	21.95	1083.59	--
MW-117	1123.97	1050	39.87	1084.10	--
MW-118	1098.38	1050	22.34	1076.04	--
PZ-1	1104.43	1007	6.49	1097.94	--
PZ-101	1108.53	1009	12.02	1096.51	--
PZ-102	1100.21	1013	7.48	1092.73	--
PZ-103	1093.98	0919	6.68	1087.30	--
PZ-104	1097.54	1110	9.05	1088.49	--
PZ-105	1101.60	1104	16.57	1085.03	--
PZ-106	1102.23	1047	21.37	1080.86	--

TABLE 1. SUMMARY OF WATER-LEVEL MEASUREMENTS
SUMMIT NATIONAL SUPERFUND SITE
APRIL 9, 2018

Well Number	Measuring Point Elevation (ft., MSL)	Time (24:00)	Depth to Water (feet)	Water Level Elevation (ft., MSL)	Total Well Depth (ft., TOC)
Water Table Unit Media Drain Manholes					
MH-1	1102.78	1003	14.27	1088.51	--
MH-2	1101.04	0959	12.54	1088.50	--
MH-3	1100.95	0955	12.49	1088.46	--
MH-4	1100.05	0951	11.61	1088.44	--
MH-5	1095.68	0943	8.10	1087.58	--
MH-6	1088.64	0934	1.15	1087.49	--
MH-7	1089.29	0931	1.74	1087.55	--
MH-8	1089.23	0926	1.68	1087.55	--
Wet Well	1098.86	0945	11.17	1087.69	--
Upper Intermediate Unit (UIU) Monitoring Wells and Piezometers					
MW-201	1107.52	1037	10.68	1096.84	--
MW-202	1099.50	1009	22.66	1076.84	--
MW-203	1103.35	1006	8.59	1094.76	--
MW-204	1098.01	1114	9.93	1088.08	--
MW-205	1100.90	1105	16.10	1084.80	--
MW-206	1103.22	1019	25.18	1078.04	--
MW-207	1098.51	1026	9.07	1089.44	49.84
MW-209	1087.66	1041	4.63	1083.03	37.70
MW-219	1108.24	1010	17.99	1090.25	--
MW-220	1090.92	0938	7.67	1083.25	38.65
MW-223	1098.37	0947	9.98	1088.39	--
MW-224	1089.41	0936	9.80	1079.61	36.62
PZ-201	1099.74	0957	10.90	1088.84	--
PZ-202	1101.56	1023	12.45	1089.11	--
PZ-203	1098.31	0949	10.54	1087.77	--
PZ-204	1095.41	1032	8.83	1086.58	--
PZ-205	1096.63	1030	8.70	1087.93	--
PZ-206	1088.05	0933	9.80	1078.25	--
PZ-207	1091.36	0940	6.87	1084.49	--

TABLE 2.
WATER-QUALITY DATA SUMMARY, APRIL 2018
GROUNDWATER MONITORING WELLS
SUMMIT NATIONAL SUPERFUND SITE

Parameter	MW-4 4/10/2018	MW-11 4/9/2018	MW-107 4/9/2018	MW-108 4/9/2018	MW-108 (DUP) 4/9/2018	MW-111 4/9/2018	MW-113 4/10/2018	MW-114 4/10/2018	MW-115 4/10/2018	MW-115 (DUP) 4/10/2018	MW-207 4/10/2018	MW-209 4/10/2018	MW-220 4/10/2108	MW-224 4/9/2018	Rinse Blank #1	Rinse Blank #2	Trip Blank	Trip Blank
	Water Table Unit Wells										Upper Intermediate Unit Wells				QA/QC Samples			
1,1,1-Trichloroethane	< 1	**15**	**9.4**	2.4 J	**2.4**	1.1 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	**70**	**1100**	**270**	**270**	**28**	< 1	< 1	0.43 J	0.40 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	**1.0**	< 170	**49**	**49**	**120**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	< 10	< 10	5.0 J	< 25	<10	< 25	< 10	< 10	< 10	< 10	< 10	4.4 J	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	< 1	0.48 J	87 J	**110**	**110**	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	< 1	< 1	< 170	< 2.5	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	< 1	< 1	92 J	< 2.5	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	**49**	**15**	**200**	**200**	**6.4**	< 1	< 1	0.72 J	0.74 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	**990**	< 2.5	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.32 J	< 1
Toluene	0.50 J	< 1	**3700**	0.66 J	0.59 J	< 2.5	< 1	< 1	< 1	< 1	< 1	0.31 J	< 1	< 1	0.38 J	< 1	0.94 J	< 1
trans-1,2-Dichloroethene	< 1	**1.3**	**2.7**	**4.7**	**4.8**	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	< 1	**88**	**1.6**	**22**	**20**	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	< 1	**6.6**	**21**	**85**	**100**	**7.6**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	0.41 J	< 2	**820**	< 5	< 2	< 5	< 2	< 2	< 2	< 2	< 2	0.26 J	< 2	< 2	< 2	< 2	0.74 J	< 2

All results in ug/L

Bold - Quantified Results

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

Note: Two trip blanks were analyzed with the groundwater samples. The sample ID for each trip blanks is Trip Blank.

TABLE 3.
COMPARISON OF VOC DETECTIONS WITH MCLs
WATER TABLE UNIT SENTINEL WELLS
APRIL 2018 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE

Well ID	Parameter	Units	April 2018 Result	MCL	Exceeds MCL (Yes/No)
Sentinel Wells (WTU)					
MW-115	1,1-Dichloroethane	ug/l	0.43 J	--	NA
MW-115	cis-1,2-Dichloroethene	ug/l	0.72 J	70	No

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

TABLE 4.
WATER-QUALITY DATA SUMMARY, APRIL 2018
S & E DITCH SURFACE WATER
SUMMIT NATIONAL SUPERFUND SITE

Parameter	Surface Water 4/10/2018	Surface Water (DUP) 4/10/2018	RPD[1]	Field Blank	Trip Blank
Volatile Organic Compounds					
1,1,1-Trichloroethane	< 1	< 1	NC[2]	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	NC[2]	< 1	< 1
1,1,2-Trichloroethane	< 1	< 1	NC[2]	< 1	< 1
1,1-Dichloroethane	< 1	< 1	NC[2]	< 1	< 1
1,1-Dichloroethene	< 1	< 1	NC[2]	< 1	< 1
1,2-Dichloroethane	< 1	< 1	NC[2]	< 1	< 1
1,2-Dichloroethene (total)	0.99 J	1.1 J	11%	< 2	< 2
1,2-Dichloropropane	< 1	< 1	NC[2]	< 1	< 1
2-Butanone (MEK)	< 10	< 10	NC[2]	< 10	< 10
2-Hexanone	< 10	< 10	NC[2]	< 10	< 10
4-Methyl-2-pentanone(MIBK)	< 10	< 10	NC[2]	< 10	< 10
Acetone	< 10	2.2 J	NC[2]	< 10	< 10
Benzene	< 1	< 1	NC[2]	< 1	< 1
Bromodichloromethane	< 1	< 1	NC[2]	< 1	< 1
Bromoform	< 1	< 1	NC[2]	< 1	< 1
Bromomethane	< 1	< 1	NC[2]	< 1	< 1
Carbon disulfide	< 1	< 1	NC[2]	< 1	< 1
Carbon tetrachloride	< 1	< 1	NC[2]	< 1	< 1
Chlorobenzene	< 1	< 1	NC[2]	< 1	< 1
Chloroethane	< 1	< 1	NC[2]	< 1	< 1
Chloroform	< 1	< 1	NC[2]	< 1	< 1
Chloromethane	< 1	< 1	NC[2]	< 1	< 1
cis-1,3-Dichloropropene	< 1	< 1	NC[2]	< 1	< 1
Dibromochloromethane	< 1	< 1	NC[2]	< 1	< 1
Ethylbenzene	< 1	< 1	NC[2]	< 1	< 1
Methylene chloride	< 1	< 1	NC[2]	< 1	< 1
Styrene	< 1	< 1	NC[2]	< 1	< 1
Tetrachloroethene	< 1	< 1	NC[2]	< 1	< 1
Toluene	< 1	< 1	NC[2]	< 1	< 1
trans-1,3-Dichloropropene	< 1	< 1	NC[2]	< 1	< 1
Trichloroethene	< 1	< 1	NC[2]	< 1	< 1
Vinyl chloride	< 1	< 1	NC[2]	< 1	< 1
Xylene (total)	< 2	< 2	NC[2]	< 2	< 2

All results in ug/L

[1] RPD - Relative Percent Difference

[2] NC - Not Calculable

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

B = Compound was also detected in the Method Blank sample

Bold - Quantified Result

TABLE 4.
WATER-QUALITY DATA SUMMARY, APRIL 2018
S & E DITCH SURFACE WATER
SUMMIT NATIONAL SUPERFUND SITE

Parameter	Surface Water 4/10/2018	Surface Water (DUP) 4/10/2018	RPD[1]	Field Blank
Semi-Volatile Organic Compounds				
1,2,4-Trichlorobenzene	< 0.89	< 0.89	NC[2]	< 0.89
1,2-Dichlorobenzene	< 0.89	< 0.89	NC[2]	< 0.89
1,3-Dichlorobenzene	< 0.89	< 0.89	NC[2]	< 0.89
1,4-Dichlorobenzene	< 0.89	< 0.89	NC[2]	< 0.89
2,2'-oxybis[1-chloropropane]	< 0.89	< 0.89	NC[2]	< 0.89
2,4,5-Trichlorophenol	< 4.5	< 4.5	NC[2]	< 4.5
2,4,6-Trichlorophenol	< 4.5	< 4.5	NC[2]	< 4.5
2,4-Dichlorophenol	< 1.8	< 1.8	NC[2]	< 1.8
2,4-Dimethylphenol	< 1.8	< 1.8	NC[2]	< 1.8
2,4-Dinitrophenol	< 36	< 36	NC[2]	< 36
2,4-Dinitrotoluene	< 4.5	< 4.5	NC[2]	< 4.5
2,6-Dinitrotoluene	< 4.5	< 4.5	NC[2]	< 4.5
2-Chloronaphthalene	< 0.89	< 0.89	NC[2]	< 0.89
2-Chlorophenol	< 0.89	< 0.89	NC[2]	< 0.89
2-Methylnaphthalene	< 0.18	< 0.18	NC[2]	< 0.18
2-Methylphenol	< 0.89	< 0.89	NC[2]	< 0.89
2-Nitroaniline	< 1.8	< 1.8	NC[2]	< 1.8
2-Nitrophenol	< 1.8	< 1.8	NC[2]	< 1.8
3&4-Methylphenol	< 1.8	< 1.8	NC[2]	< 1.8
3,3'-Dichlorobenzidine	< 4.5	< 4.5	NC[2]	< 4.5
3-Nitroaniline	< 1.8	< 1.8	NC[2]	< 1.8
4,6-Dinitro-2-methylphenol	< 4.5	< 4.5	NC[2]	< 4.5
4-Bromophenyl phenyl ether	< 1.8	< 1.8	NC[2]	< 1.8
4-Chloro-3-methyl phenol	< 1.8	< 1.8	NC[2]	< 1.8
4-Chloroaniline	< 1.8	< 1.8	NC[2]	< 1.8
4-Chlorophenyl phenyl ether	< 1.8	< 1.8	NC[2]	< 1.8
4-Nitroaniline	< 1.8	< 1.8	NC[2]	< 1.8
4-Nitrophenol	< 4.5	< 4.5	NC[2]	< 4.5
Acenaphthene	< 0.18	< 0.18	NC[2]	< 0.18
Acenaphthylene	< 0.18	< 0.18	NC[2]	< 0.18
Anthracene	< 0.18	< 0.18	NC[2]	< 0.18
Benzo(a)anthracene	< 0.18	< 0.18	NC[2]	< 0.18
Benzo(a)pyrene	< 0.18	< 0.18	NC[2]	< 0.18
Benzo(b)fluoranthene	< 0.18	< 0.18	NC[2]	< 0.18
Benzo(g,h,i)perylene	< 0.18	< 0.18	NC[2]	< 0.18
Benzo(k)fluoranthene	< 0.18	< 0.18	NC[2]	< 0.18
bis(2-Chloroethoxy)methane	< 0.89	< 0.89	NC[2]	< 0.89
bis(2-Chloroethyl)ether	< 0.89	< 0.89	NC[2]	< 0.89
bis(2-ethylhexyl)phthalate	< 4.5	< 4.5	NC[2]	< 4.5

All results in ug/L
[1] RPD - Relative Percent Difference
[2] NC - Not Calculable
J = Estimated result less than practical quantitation limit and greater than method detection limit.
B = Compound was also detected in the Method Blank sample
Bold - Quantified Result

TABLE 4.
WATER-QUALITY DATA SUMMARY, APRIL 2018
S & E DITCH SURFACE WATER
SUMMIT NATIONAL SUPERFUND SITE

Parameter	Surface Water 4/10/2018	Surface Water (DUP) 4/10/2018	RPD[1]	Field Blank
Semi-Volatile Organic Compounds (Continued)				
Butyl benzyl phthalate	< 1.8	< 1.8	NC[2]	< 1.8
Carbazole	< 0.89	< 0.89	NC[2]	< 0.89
Chrysene	< 0.18	< 0.18	NC[2]	< 0.18
Dibenzo(a,h)anthracene	< 0.18	< 0.18	NC[2]	< 0.18
Dibenzofuran	< 0.89	< 0.89	NC[2]	< 0.89
Diethyl phthalate	1.4 J B	0.92 J B	8%	1.0 J B
Dimethyl phthalate	< 1.8	< 1.8	NC[2]	< 1.8
Di-n-butyl phthalate	< 4.5	< 4.5	NC[2]	< 4.5
Di-n-octyl phthalate	< 1.8	< 1.8	NC[2]	< 1.8
Fluoranthene	< 0.18	< 0.18	NC[2]	< 0.18
Fluorene	< 0.18	< 0.18	NC[2]	< 0.18
Hexachlorobenzene	< 0.89	< 0.89	NC[2]	< 0.89
Hexachlorobutadiene	< 0.89	< 0.89	NC[2]	< 0.89
Hexachlorocyclopentadiene	< 8.9	< 8.9	NC[2]	< 8.9
Hexachloroethane	< 0.89	< 0.89	NC[2]	< 0.89
Indeno(1,2,3-cd)pyrene	< 0.18	< 0.18	NC[2]	< 0.18
Isophorone	< 0.89	< 0.89	NC[2]	< 0.89
Naphthalene	< 0.18	< 0.18	NC[2]	< 0.18
Nitrobenzene	< 0.89	< 0.89	NC[2]	< 0.89
N-Nitroso-di-n-propylamine	< 0.89	< 0.89	NC[2]	< 0.89
N-Nitrosodiphenylamine	< 0.89	< 0.89	NC[2]	< 0.89
Pentachlorophenol	< 36	< 36	NC[2]	< 36
Phenanthrene	< 0.18	< 0.18	NC[2]	< 0.18
Phenol	<0.89	<0.89	NC[2]	<0.89
Pyrene	<0.18	<0.18	NC[2]	<0.18

All results in ug/L

[1] RPD - Relative Percent Difference

[2] NC - Not Calculable

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

B = Compound was also detected in the Method Blank sample

Bold - Quantified Result

TABLE 5.
SEDIMENT ANALYSIS DATA SUMMARY, APRIL 2018
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	S&E Ditch Sediment 4/10/2018	S&E Ditch Sediment (DUP) 4/10/2018	RPD[1]	Rinsate Blank	Trip Blank	USEPA RSLs[2] Residential	USEPA RSLs[2] Industrial
Volatile Organic Compounds							
1,1,1-Trichloroethane	< 6.5	< 5.3	NC[3]	< 1	< 1	8100000	36000000
1,1,2,2-Tetrachloroethane	< 6.5	< 5.3	NC[3]	< 1	< 1	600	2700
1,1,2-Trichloroethane	< 6.5	< 5.3	NC[3]	< 1	< 1	1100	5000
1,1-Dichloroethane	< 6.5	< 5.3	NC[3]	< 1	< 1	3600	16000
1,1-Dichloroethene	< 6.5	< 5.3	NC[3]	< 1	< 1	230000	1000000
1,2-Dichloroethane	< 6.5	< 5.3	NC[3]	< 1	< 1	460	2000
1,2-Dichloroethene (total)	< 13	< 11	NC[3]	< 2	< 2	--	--
1,2-Dichloropropane	< 6.5	< 5.3	NC[3]	< 1	< 1	2500	11000
2-Butanone (MEK)	< 26	1.4 J	NC[3]	< 10	< 10	27000000	190000000
2-Hexanone	< 26	< 21	NC[3]	< 10	< 10	200000	1300000
4-Methyl-2-pentanone(MIBK)	< 26	< 21	NC[3]	< 10	< 10	33000000	140000000
Acetone	< 26	< 21	NC[3]	< 10	< 10	61000000	670000000
Benzene	< 6.5	< 5.3	NC[3]	< 1	< 1	1200	5100
Bromodichloromethane	< 6.5	< 5.3	NC[3]	< 1	< 1	290	1300
Bromoform	< 6.5	< 5.3	NC[3]	< 1	< 1	19000	86000
Bromomethane	< 6.5	< 5.3	NC[3]	< 1	< 1	6800	30000
Carbon disulfide	< 6.5	1.8 J B	NC[3]	< 1	< 1	770000	3500000
Carbon tetrachloride	< 6.5	< 5.3	NC[3]	< 1	< 1	650	2900
Chlorobenzene	< 6.5	< 5.3	NC[3]	< 1	< 1	280000	1300000
Chloroethane	< 6.5	< 5.3	NC[3]	< 1	< 1	14000000	57000000
Chloroform	< 6.5	< 5.3	NC[3]	< 1	< 1	320	1400
Chloromethane	< 6.5	< 5.3	NC[3]	< 1	< 1	110000	460000
cis-1,3-Dichloropropene	< 6.5	< 5.3	NC[3]	< 1	< 1	--	--
Dibromochloromethane	< 6.5	< 5.3	NC[3]	< 1	< 1	8300	39000
Ethylbenzene	< 6.5	< 5.3	NC[3]	< 1	< 1	5800	25000
Methylene chloride	< 6.5	< 5.3	NC[3]	< 1	< 1	57000	1000000
Styrene	< 6.5	< 5.3	NC[3]	< 1	< 1	6000000	35000000
Tetrachloroethene	< 6.5	< 5.3	NC[3]	< 1	< 1	24000	100000
Toluene	< 6.5	< 5.3	NC[3]	< 1	< 1	4900000	47000000
trans-1,3-Dichloropropene	< 6.5	< 5.3	NC[3]	< 1	< 1	--	--
Trichloroethene	< 6.5	< 5.3	NC[3]	< 1	< 1	940	6000
Vinyl chloride	< 6.5	< 5.3	NC[3]	< 1	< 1	59	1700
Xylene (total)	< 13	< 11	NC[3]	< 2	< 2	580000	2500000

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

[1] RPD - Relative Percent Difference

[2] USEPA, Region 9, Regional Screening Levels (RSL); May 2018 (revised); THQ = 1.0

[3] NC - Not Calculable

Bold - Quantified Result

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

R = Rejected value based on data validation results

TABLE 5.
SEDIMENT ANALYSIS DATA SUMMARY, APRIL 2018
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	S&E Ditch Sediment 4/10/2018	S&E Ditch Sediment (DUP) 4/10/2018	RPD[1]	Rinsate Blank	USEPA RSLs[2] Residential	USEPA RSLs[2] Industrial
Semi-Volatile Organic Compounds						
1,2,4-Trichlorobenzene	< 82	< 69	NC[3]	< 0.89	24000	110000
1,2-Dichlorobenzene	< 82	< 69	NC[3]	< 0.89	1800000	9300000
1,3-Dichlorobenzene	< 82	< 69	NC[3]	< 0.89	--	--
1,4-Dichlorobenzene	< 82	< 69	NC[3]	< 0.89	2600	11000
2,2'-oxybis[1-chloropropane]	< 160	< 140	NC[3]	< 0.89	3100000	47000000
2,4,5-Trichlorophenol	< 240	< 210	NC[3]	< 4.5	6300000	82000000
2,4,6-Trichlorophenol	< 240	< 210	NC[3]	< 4.5	49000	210000
2,4-Dichlorophenol	< 240	< 210	NC[3]	< 1.8	190000	2500000
2,4-Dimethylphenol	< 240	< 210	NC[3]	< 1.8	1300000	16000000
2,4-Dinitrophenol	< 540	< 450	NC[3]	< 36	130000	1600000
2,4-Dinitrotoluene	< 330	< 280	NC[3]	< 4.5	1700	7400
2,6-Dinitrotoluene	< 330	< 280	NC[3]	< 4.5	360	1500
2-Chloronaphthalene	< 82	< 69	NC[3]	< 0.89	4800000	60000000
2-Chlorophenol	< 82	< 69	NC[3]	< 0.89	390000	5800000
2-Methylnaphthalene	**260**	**740**	96%	< 0.18	240000	3000000
2-Methylphenol	< 330	< 280	NC[3]	< 0.89	3200000	41000000
2-Nitroaniline	< 330	< 280	NC[3]	< 1.8	630000	8000000
2-Nitrophenol	< 82	< 69	NC[3]	< 1.8	--	--
3&4-Methylphenol	< 650	< 550	NC[3]	< 1.8	3200000	41000000
3,3'-Dichlorobenzidine	< 160 R	< 140 R	NC[3]	< 4.5	1200	5100
3-Nitroaniline	< 330	< 280	NC[3]	< 1.8	--	--
4,6-Dinitro-2-methylphenol	< 240	< 210	NC[3]	< 4.5	5100	66000
4-Bromophenyl phenyl ether	< 82	< 69	NC[3]	< 1.8	--	--
4-Chloro-3-methyl phenol	< 240	< 210	NC[3]	< 1.8	6300000	82000000
4-Chloroaniline	< 240	< 210	NC[3]	< 1.8	2700	11000
4-Chlorophenyl phenyl ether	< 82	< 69	NC[3]	< 1.8	--	--
4-Nitroaniline	< 330	< 280	NC[3]	< 1.8	27000	110000
4-Nitrophenol	< 540	< 450	NC[3]	< 4.5	--	--
Acenaphthene	< 11	< 9.2	NC[3]	< 0.18	3600000	45000000
Acenaphthylene	5.5 J	8.9 J	47%	< 0.18	--	--
Anthracene	< 11	**15**	NC[3]	< 0.18	18000000	230000000
Benzo(a)anthracene	**23**	**50**	74%	< 0.18	1100	21000
Benzo(a)pyrene	**23**	**45**	65%	< 0.18	110	2100
Benzo(b)fluoranthene	**48**	**91**	62%	< 0.18	1100	21000
Benzo(g,h,i)perylene	**100**	**180**	57%	< 0.18	--	--
Benzo(k)fluoranthene	**12**	**18**	40%	< 0.18	1100	210000
bis(2-Chloroethoxy)methane	< 160	< 140	NC[3]	< 0.89	190000	2500000
bis(2-Chloroethyl)ether	< 160	< 140	NC[3]	< 0.89	230	1000
bis(2-ethylhexyl)phthalate	<110	< 96	NC[3]	< 4.5	39000	160000

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

[1] RPD - Relative Percent Difference

[2] USEPA, Region 9, Regional Screening Levels (RSL); May 2018 (revised); THQ = 1.0

[3] NC - Not Calculable

Bold - Quantified Result

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

R = Rejected value based on data validation results

TABLE 5.
SEDIMENT ANALYSIS DATA SUMMARY, APRIL 2018
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	S&E Ditch Sediment 4/10/2018	S&E Ditch Sediment (DUP) 4/10/2018	RPD[1]	Rinsate Blank	USEPA RSLs[2] Residential	USEPA RSLs[2] Industrial
Semi-Volatile Organic Compounds (Continued)						
Butyl benzyl phthalate	< 110	< 96	NC[3]	< 1.8	290000	1200000
Carbazole	< 82	< 69	NC[3]	< 0.89	--	--
Chrysene	**45**	**82**	58%	< 0.18	110000	2100000
Dibenz(a,h)anthracene	< 11	**16**	NC[3]	< 0.18	110	2100
Dibenzofuran	**60**	**150**	86%	< 0.89	73000	1000000
Diethyl phthalate	< 110	< 96	NC[3]	1.5 J B	51000000	660000000
Dimethyl phthalate	< 110	< 96	NC[3]	< 1.8	--	--
Di-n-butyl phthalate	< 110	< 96	NC[3]	< 4.5	6300000	82000000
Di-n-octyl phthalate	< 110	< 96	NC[3]	< 1.8	630000	8200000
Fluoranthene	**46**	**100**	74%	< 0.18	2400000	30000000
Fluorene	< 11	**16**	NC[3]	< 0.18	2400000	30000000
Hexachlorobenzene	< 11	< 9.2	NC[3]	< 0.89	210	960
Hexachlorobutadiene	< 82	< 69	NC[3]	< 0.89	1200	5300
Hexachlorocyclopentadiene	< 540 R	< 450 R	NC[3]	< 8.9	1800	7500
Hexachloroethane	< 82	< 69	NC[3]	< 0.89	1800	8000
Indeno(1,2,3-cd)pyrene	**25**	**44**	55%	< 0.18	1100	21000
Isophorone	< 82	< 69	NC[3]	< 0.89	570000	2400000
Naphthalene	**160**	**510**	104%	< 0.18	3800	17000
Nitrobenzene	< 160	< 140	NC[3]	< 0.89	5100	22000
N-Nitroso-di-n-propylamine	< 82	< 69	NC[3]	< 0.89	78	330
N-Nitrosodiphenylamine	< 82	< 69	NC[3]	< 0.89	110000	470000
Pentachlorophenol	< 240	< 210	NC[3]	< 36	1000	4000
Phenanthrene	**170**	**410**	83%	< 0.18	--	--
Phenol	24 J B	38 J B	45%	< 0.89	19000000	250000000
Pyrene	**66**	**130**	65%	< 0.18	1800000	23000000

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

[1] RPD - Relative Percent Difference

[2] USEPA, Region 9, Regional Screening Levels (RSL); May 2018 (revised); THQ = 1.0

[3] NC - Not Calculable

Bold - Quantified Result

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

R = Rejected value based on data validation results

APPENDIX A.

LABORATORY ANALYTICAL REPORT AND FIELD FORMS APRIL 2018 GROUNDWATER QUALITY MONITORING EVENT

SAMPLE IDENTIFICATION SUMMARY
APRIL 2018 SAMPLING EVENT
SUMMIT NATIONAL SUPERFUND SITE

Sample ID	Sample Name	Lab ID
Investigative Samples (GW)		
MW-4	GW-041018-NK-009	240-93872-10
MW-11	GW-040918-NK-005	240-93872-5
MW-107	GW-040918-NK-007	240-93872-7
MW-108	GW-040918-NK-002	240-93872-2
MW-111	GW-040918-NK-001	240-93872-1
MW-113	GW-041018-NK-011	240-93872-12
MW-114	GW-041018-NK-013	240-93872-14
MW-115	GW-041018-NK-014	240-93872-15
MW-207	GW-040918-NK-006	240-93872-6
MW-209	GW-041018-NK-010	240-93872-11
MW-220	GW-041018-NK-012	240-93872-13
MW-224	GW-040918-NK-004	240-93872-4
QA/QC Samples (GW)		
Duplicate #1 (MW-108)	GW-040918-NK-003	240-93872-3
Duplicate #2 (MW-115)	GW-041018-NK-015	240-93872-16
MS (MW-224)	GW-040918-NK-004MS	240-93872-4MS
MSD (MW-224)	GW-040918-NK-004MSD	240-93872-4MSD
Rinse Blank #1	RB-040918-NK-008	240-93872-8
Rinse Blank #2	RB-041018-NK-016	240-93872-17
Purge/Decon Water	Purge/Decon Water	240-93863-1
Investigative Sample (Ditch)		
S&E Ditch Sediment	SD-041018-AG-020	240-93866-1
QA/QC Samples (Ditch)		
S&E Ditch Sediment (DUP)	SD-041018-AG-021	240-93866-2
S&E Ditch Sediment (RB)	RB-041018-AG-022	240-93866-3
S&E Ditch Sediment (MS)	SD-041018-AG-020MS	240-93866-1MS
S&E Ditch Sediment (MSD)	SD-041018-AG-020MSD	240-93866-1MSD
Investigative Sample (Surface Water)		
Surface Water	SW-041018-AG-017	240-93874-1
QA/QC Samples (Surface Water)		
Surface Water (DUP)	SW-041018-AG-018	240-93874-2
Surface Water (FB)	FB-041018-AG-019	240-93874-4
Surface Water (MS)	SW-041018-AG-017MS	240-93874-1MS
Surface Water (MSD)	SW-041018-AG-017MSD	240-93874-1MSD

Notes:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-93872-1
Client Project/Site: Summit National - 2018 Annual GW

For:
Eagon & Associates, Inc.
100 Old Wilson Bridge Road
Suite 115
Worthington, Ohio 43085

Attn: Mr. Mike Gibson

Authorized for release by:
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-93872-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Eagon & Associates, Inc.

Project: Summit National - 2018 Annual GW

Report Number: 240-93872-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT
The samples were received on 4/10/2018 1:13 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.3º C, 3.5º C, 3.7º C and 3.9º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)
Samples GW-040918-NK-001 (240-93872-1), GW-040918-NK-002 (240-93872-2), GW-040918-NK-003 (240-93872-3), GW-040918-NK-004 (240-93872-4), GW-040918-NK-005 (240-93872-5), GW-040918-NK-006 (240-93872-6), GW-040918-NK-007 (240-93872-7), RB-040918-NK-008 (240-93872-8), TRIP BLANK (240-93872-9), GW-041018-NK-009 (240-93872-10), GW-041018-NK-010 (240-93872-11), GW-041018-NK-011 (240-93872-12), GW-041018-NK-012 (240-93872-13), GW-041018-NK-013 (240-93872-14), GW-041018-NK-014 (240-93872-15), GW-041018-NK-015 (240-93872-16), RB-041018-NK-016 (240-93872-17) and TRIP BLANK (240-93872-18) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 04/18/2018, 04/19/2018 and 04/20/2018.

Vinyl chloride exceeded the RPD limit for the MSD of sample GW-040918-NK-004MSD (240-93872-4) in batch 240-323134. Refer to the QC report for details.

Samples GW-040918-NK-001 (240-93872-1)[2.5X], GW-040918-NK-001 (240-93872-1)[25X], GW-040918-NK-002 (240-93872-2)[2.5X], GW-040918-NK-002 (240-93872-2)[25X], GW-040918-NK-003 (240-93872-3)[10X], GW-040918-NK-005 (240-93872-5)[3.33X] and

Job ID: 240-93872-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

GW-040918-NK-007 (240-93872-7)[166.67X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) for analytical batch 322950 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

GW-040918-NK-001 (240-93872-1), GW-040918-NK-002 (240-93872-2), GW-040918-NK-003 (240-93872-3), GW-040918-NK-005 (240-93872-5) and GW-040918-NK-006 (240-93872-6)

The continuing calibration verification (CCV) associated with batch 323134 recovered above the upper control limit for one or multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: GW-040918-NK-001 (240-93872-1), GW-040918-NK-002 (240-93872-2), GW-040918-NK-003 (240-93872-3), GW-040918-NK-004 (240-93872-4), GW-040918-NK-005 (240-93872-5), GW-040918-NK-007 (240-93872-7), TRIP BLANK (240-93872-9), GW-041018-NK-009 (240-93872-10), GW-041018-NK-010 (240-93872-11), GW-041018-NK-011 (240-93872-12), GW-041018-NK-012 (240-93872-13), GW-041018-NK-013 (240-93872-14) and GW-041018-NK-014 (240-93872-15).

The continuing calibration verification (CCV) associated with batch 323346 recovered above the upper control limit for one or multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: GW-040918-NK-007 (240-93872-7), RB-040918-NK-008 (240-93872-8), GW-041018-NK-015 (240-93872-16), RB-041018-NK-016 (240-93872-17) and TRIP BLANK (240-93872-18).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-93872-1	GW-040918-NK-001	Water	04/09/18 16:30	04/10/18 13:13
240-93872-2	GW-040918-NK-002	Water	04/09/18 17:00	04/10/18 13:13
240-93872-3	GW-040918-NK-003	Water	04/09/18 17:00	04/10/18 13:13
240-93872-4	GW-040918-NK-004	Water	04/09/18 17:15	04/10/18 13:13
240-93872-5	GW-040918-NK-005	Water	04/09/18 17:35	04/10/18 13:13
240-93872-6	GW-040918-NK-006	Water	04/09/18 17:50	04/10/18 13:13
240-93872-7	GW-040918-NK-007	Water	04/09/18 18:05	04/10/18 13:13
240-93872-8	RB-040918-NK-008	Water	04/09/18 18:07	04/10/18 13:13
240-93872-9	TRIP BLANK	Water	04/09/18 00:00	04/10/18 13:13
240-93872-10	GW-041018-NK-009	Water	04/10/18 07:45	04/10/18 13:13
240-93872-11	GW-041018-NK-010	Water	04/10/18 08:10	04/10/18 13:13
240-93872-12	GW-041018-NK-011	Water	04/10/18 08:30	04/10/18 13:13
240-93872-13	GW-041018-NK-012	Water	04/10/18 08:50	04/10/18 13:13
240-93872-14	GW-041018-NK-013	Water	04/10/18 10:30	04/10/18 13:13
240-93872-15	GW-041018-NK-014	Water	04/10/18 10:50	04/10/18 13:13
240-93872-16	GW-041018-NK-015	Water	04/10/18 10:50	04/10/18 13:13
240-93872-17	RB-041018-NK-016	Water	04/10/18 11:10	04/10/18 13:13
240-93872-18	TRIP BLANK	Water	04/10/18 00:00	04/10/18 13:13

Detection Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-001 — Lab Sample ID: 240-93872-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.1	J	2.5	0.58	ug/L	2.5		8260C	Total/NA
1,1-Dichloroethane	28		2.5	0.63	ug/L	2.5		8260C	Total/NA
1,2-Dichloroethane	120		25	7.5	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	6.4		2.5	0.75	ug/L	2.5		8260C	Total/NA
Vinyl chloride	7.6		2.5	1.1	ug/L	2.5		8260C	Total/NA

Client Sample ID: GW-040918-NK-002 — Lab Sample ID: 240-93872-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.4	J	2.5	0.58	ug/L	2.5		8260C	Total/NA
1,1-Dichloroethane	270		25	6.3	ug/L	25		8260C	Total/NA
1,2-Dichloroethane	49		2.5	0.75	ug/L	2.5		8260C	Total/NA
Benzene	110		25	7.0	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	200		25	7.5	ug/L	25		8260C	Total/NA
Toluene	0.66	J	2.5	0.58	ug/L	2.5		8260C	Total/NA
trans-1,2-Dichloroethene	4.7		2.5	0.73	ug/L	2.5		8260C	Total/NA
Trichloroethene	22		2.5	0.83	ug/L	2.5		8260C	Total/NA
Vinyl chloride	85		2.5	1.1	ug/L	2.5		8260C	Total/NA

Client Sample ID: GW-040918-NK-003 — Lab Sample ID: 240-93872-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.4		1.0	0.23	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	270		10	2.5	ug/L	10		8260C	Total/NA
1,2-Dichloroethane	49		10	3.0	ug/L	10		8260C	Total/NA
Benzene	110		10	2.8	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	200		10	3.0	ug/L	10		8260C	Total/NA
Toluene	0.59	J	1.0	0.23	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	4.8		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	20		1.0	0.33	ug/L	1		8260C	Total/NA
Vinyl chloride	100		10	4.5	ug/L	10		8260C	Total/NA

Client Sample ID: GW-040918-NK-004 — Lab Sample ID: 240-93872-4

No Detections.

Client Sample ID: GW-040918-NK-005 — Lab Sample ID: 240-93872-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	15		1.0	0.23	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	70		3.3	0.83	ug/L	3.33		8260C	Total/NA
1,2-Dichloroethane	1.0		1.0	0.30	ug/L	1		8260C	Total/NA
Benzene	0.48	J	1.0	0.28	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	49		3.3	1.0	ug/L	3.33		8260C	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	88		3.3	1.1	ug/L	3.33		8260C	Total/NA
Vinyl chloride	6.6		1.0	0.45	ug/L	1		8260C	Total/NA

Client Sample ID: GW-040918-NK-006 — Lab Sample ID: 240-93872-6

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-007 — Lab Sample ID: 240-93872-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	9.4		1.0	0.23	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1100		170	42	ug/L	166.67		8260C	Total/NA
Acetone	5.0	J	10	1.8	ug/L	1		8260C	Total/NA
Benzene	87	J	170	47	ug/L	166.67		8260C	Total/NA
Chloroethane	92	J	170	68	ug/L	166.67		8260C	Total/NA
cis-1,2-Dichloroethene	15		1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	990		170	43	ug/L	166.67		8260C	Total/NA
Toluene	3700		170	38	ug/L	166.67		8260C	Total/NA
trans-1,2-Dichloroethene	2.7		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	1.6		1.0	0.33	ug/L	1		8260C	Total/NA
Vinyl chloride	21		1.0	0.45	ug/L	1		8260C	Total/NA
Xylenes, Total	820		2.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: RB-040918-NK-008 — Lab Sample ID: 240-93872-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.38	J	1.0	0.23	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-93872-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.32	J	1.0	0.26	ug/L	1		8260C	Total/NA
Toluene	0.94	J	1.0	0.23	ug/L	1		8260C	Total/NA
Xylenes, Total	0.74	J	2.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: GW-041018-NK-009 — Lab Sample ID: 240-93872-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.50	J	1.0	0.23	ug/L	1		8260C	Total/NA
Xylenes, Total	0.41	J	2.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: GW-041018-NK-010 — Lab Sample ID: 240-93872-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.4	J	10	1.8	ug/L	1		8260C	Total/NA
Toluene	0.31	J	1.0	0.23	ug/L	1		8260C	Total/NA
Xylenes, Total	0.26	J	2.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: GW-041018-NK-011 — Lab Sample ID: 240-93872-12

No Detections.

Client Sample ID: GW-041018-NK-012 — Lab Sample ID: 240-93872-13

No Detections.

Client Sample ID: GW-041018-NK-013 — Lab Sample ID: 240-93872-14

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-014 — Lab Sample ID: 240-93872-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.43	J	1.0	0.25	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.72	J	1.0	0.30	ug/L	1		8260C	Total/NA

Client Sample ID: GW-041018-NK-015 — Lab Sample ID: 240-93872-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.40	J	1.0	0.25	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.74	J	1.0	0.30	ug/L	1		8260C	Total/NA

Client Sample ID: RB-041018-NK-016 — Lab Sample ID: 240-93872-17

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-93872-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-001

Lab Sample ID: 240-93872-1

Date Collected: 04/09/18 16:30
Matrix: Water
Date Received: 04/10/18 13:13

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.1**	**J**	2.5	0.58	ug/L			04/18/18 16:49	2.5
1,1-Dichloroethane	**28**		2.5	0.63	ug/L			04/18/18 16:49	2.5
1,2-Dichloroethane	**120**		25	7.5	ug/L			04/19/18 15:04	25
Acetone	ND		25	4.4	ug/L			04/18/18 16:49	2.5
Benzene	ND		2.5	0.70	ug/L			04/18/18 16:49	2.5
Chlorobenzene	ND		2.5	0.80	ug/L			04/18/18 16:49	2.5
Chloroethane	ND		2.5	1.0	ug/L			04/18/18 16:49	2.5
cis-1,2-Dichloroethene	**6.4**		2.5	0.75	ug/L			04/18/18 16:49	2.5
Ethylbenzene	ND		2.5	0.65	ug/L			04/18/18 16:49	2.5
Toluene	ND		2.5	0.58	ug/L			04/18/18 16:49	2.5
trans-1,2-Dichloroethene	ND		2.5	0.73	ug/L			04/18/18 16:49	2.5
Trichloroethene	ND		2.5	0.83	ug/L			04/18/18 16:49	2.5
Vinyl chloride	**7.6**		2.5	1.1	ug/L			04/18/18 16:49	2.5
Xylenes, Total	ND		5.0	0.60	ug/L			04/18/18 16:49	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 138*		*04/18/18 16:49*	*2.5*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*04/19/18 15:04*	*25*
4-Bromofluorobenzene (Surr)	*78*		*69 - 120*		*04/18/18 16:49*	*2.5*
4-Bromofluorobenzene (Surr)	*78*		*69 - 120*		*04/19/18 15:04*	*25*
Dibromofluoromethane (Surr)	*97*		*69 - 124*		*04/18/18 16:49*	*2.5*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*04/19/18 15:04*	*25*
Toluene-d8 (Surr)	*100*		*73 - 120*		*04/18/18 16:49*	*2.5*
Toluene-d8 (Surr)	*110*		*73 - 120*		*04/19/18 15:04*	*25*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-002

Lab Sample ID: 240-93872-2

Date Collected: 04/09/18 17:00
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.4**	**J**	2.5	0.58	ug/L			04/18/18 17:11	2.5
1,1-Dichloroethane	**270**		25	6.3	ug/L			04/19/18 15:26	25
1,2-Dichloroethane	**49**		2.5	0.75	ug/L			04/18/18 17:11	2.5
Acetone	ND		25	4.4	ug/L			04/18/18 17:11	2.5
Benzene	**110**		25	7.0	ug/L			04/19/18 15:26	25
Chlorobenzene	ND		2.5	0.80	ug/L			04/18/18 17:11	2.5
Chloroethane	ND		2.5	1.0	ug/L			04/18/18 17:11	2.5
cis-1,2-Dichloroethene	**200**		25	7.5	ug/L			04/19/18 15:26	25
Ethylbenzene	ND		2.5	0.65	ug/L			04/18/18 17:11	2.5
Toluene	**0.66**	**J**	2.5	0.58	ug/L			04/18/18 17:11	2.5
trans-1,2-Dichloroethene	**4.7**		2.5	0.73	ug/L			04/18/18 17:11	2.5
Trichloroethene	**22**		2.5	0.83	ug/L			04/18/18 17:11	2.5
Vinyl chloride	**85**		2.5	1.1	ug/L			04/18/18 17:11	2.5
Xylenes, Total	ND		5.0	0.60	ug/L			04/18/18 17:11	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 138*		*04/18/18 17:11*	*2.5*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*		*04/19/18 15:26*	*25*
4-Bromofluorobenzene (Surr)	*80*		*69 - 120*		*04/18/18 17:11*	*2.5*
4-Bromofluorobenzene (Surr)	*81*		*69 - 120*		*04/19/18 15:26*	*25*
Dibromofluoromethane (Surr)	*98*		*69 - 124*		*04/18/18 17:11*	*2.5*
Dibromofluoromethane (Surr)	*100*		*69 - 124*		*04/19/18 15:26*	*25*
Toluene-d8 (Surr)	*108*		*73 - 120*		*04/18/18 17:11*	*2.5*
Toluene-d8 (Surr)	*111*		*73 - 120*		*04/19/18 15:26*	*25*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-003

Lab Sample ID: 240-93872-3

Date Collected: 04/09/18 17:00
Matrix: Water
Date Received: 04/10/18 13:13

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.4**		1.0	0.23	ug/L			04/18/18 17:33	1
1,1-Dichloroethane	**270**		10	2.5	ug/L			04/19/18 15:49	10
1,2-Dichloroethane	**49**		10	3.0	ug/L			04/19/18 15:49	10
Acetone	ND		10	1.8	ug/L			04/18/18 17:33	1
Benzene	**110**		10	2.8	ug/L			04/19/18 15:49	10
Chlorobenzene	ND		1.0	0.32	ug/L			04/18/18 17:33	1
Chloroethane	ND		1.0	0.41	ug/L			04/18/18 17:33	1
cis-1,2-Dichloroethene	**200**		10	3.0	ug/L			04/19/18 15:49	10
Ethylbenzene	ND		1.0	0.26	ug/L			04/18/18 17:33	1
Toluene	**0.59**	**J**	1.0	0.23	ug/L			04/18/18 17:33	1
trans-1,2-Dichloroethene	**4.8**		1.0	0.29	ug/L			04/18/18 17:33	1
Trichloroethene	**20**		1.0	0.33	ug/L			04/18/18 17:33	1
Vinyl chloride	**100**		10	4.5	ug/L			04/19/18 15:49	10
Xylenes, Total	ND		2.0	0.24	ug/L			04/18/18 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 138*		*04/18/18 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 138*		*04/19/18 15:49*	*10*
4-Bromofluorobenzene (Surr)	*72*		*69 - 120*		*04/18/18 17:33*	*1*
4-Bromofluorobenzene (Surr)	*78*		*69 - 120*		*04/19/18 15:49*	*10*
Dibromofluoromethane (Surr)	*94*		*69 - 124*		*04/18/18 17:33*	*1*
Dibromofluoromethane (Surr)	*104*		*69 - 124*		*04/19/18 15:49*	*10*
Toluene-d8 (Surr)	*98*		*73 - 120*		*04/18/18 17:33*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*04/19/18 15:49*	*10*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-004

Lab Sample ID: 240-93872-4

Date Collected: 04/09/18 17:15
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 16:11	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 16:11	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 16:11	1
Acetone	ND		10	1.8	ug/L			04/19/18 16:11	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 16:11	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 16:11	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 16:11	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/19/18 16:11	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 16:11	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 16:11	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 16:11	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 16:11	1
Vinyl chloride	ND	F2	1.0	0.45	ug/L			04/19/18 16:11	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 138*		*04/19/18 16:11*	*1*
4-Bromofluorobenzene (Surr)	*74*		*69 - 120*		*04/19/18 16:11*	*1*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*04/19/18 16:11*	*1*
Toluene-d8 (Surr)	*104*		*73 - 120*		*04/19/18 16:11*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-005

Lab Sample ID: 240-93872-5

Date Collected: 04/09/18 17:35
Matrix: Water
Date Received: 04/10/18 13:13

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**15**		1.0	0.23	ug/L			04/19/18 16:34	1
1,1-Dichloroethane	**70**		3.3	0.83	ug/L			04/18/18 17:56	3.33
1,2-Dichloroethane	**1.0**		1.0	0.30	ug/L			04/19/18 16:34	1
Acetone	ND		10	1.8	ug/L			04/19/18 16:34	1
Benzene	**0.48**	**J**	1.0	0.28	ug/L			04/19/18 16:34	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 16:34	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 16:34	1
cis-1,2-Dichloroethene	**49**		3.3	1.0	ug/L			04/18/18 17:56	3.33
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 16:34	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 16:34	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.29	ug/L			04/19/18 16:34	1
Trichloroethene	**88**		3.3	1.1	ug/L			04/18/18 17:56	3.33
Vinyl chloride	**6.6**		1.0	0.45	ug/L			04/19/18 16:34	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*61 - 138*		*04/18/18 17:56*	*3.33*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 138*		*04/19/18 16:34*	*1*
4-Bromofluorobenzene (Surr)	*88*		*69 - 120*		*04/18/18 17:56*	*3.33*
4-Bromofluorobenzene (Surr)	*70*		*69 - 120*		*04/19/18 16:34*	*1*
Dibromofluoromethane (Surr)	*115*		*69 - 124*		*04/18/18 17:56*	*3.33*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/19/18 16:34*	*1*
Toluene-d8 (Surr)	*119*		*73 - 120*		*04/18/18 17:56*	*3.33*
Toluene-d8 (Surr)	*98*		*73 - 120*		*04/19/18 16:34*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-006

Lab Sample ID: 240-93872-6

Date Collected: 04/09/18 17:50
Matrix: Water
Date Received: 04/10/18 13:13

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/18/18 18:19	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/18/18 18:19	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/18/18 18:19	1
Acetone	ND		10	1.8	ug/L			04/18/18 18:19	1
Benzene	ND		1.0	0.28	ug/L			04/18/18 18:19	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/18/18 18:19	1
Chloroethane	ND		1.0	0.41	ug/L			04/18/18 18:19	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/18/18 18:19	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/18/18 18:19	1
Toluene	ND		1.0	0.23	ug/L			04/18/18 18:19	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/18/18 18:19	1
Trichloroethene	ND		1.0	0.33	ug/L			04/18/18 18:19	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/18/18 18:19	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/18/18 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/18/18 18:19*	*1*
4-Bromofluorobenzene (Surr)	*80*		*69 - 120*		*04/18/18 18:19*	*1*
Dibromofluoromethane (Surr)	*104*		*69 - 124*		*04/18/18 18:19*	*1*
Toluene-d8 (Surr)	*105*		*73 - 120*		*04/18/18 18:19*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-007

Lab Sample ID: 240-93872-7

Date Collected: 04/09/18 18:05
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9.4		1.0	0.23	ug/L			04/19/18 16:56	1
1,1-Dichloroethane	1100		170	42	ug/L			04/20/18 11:07	166.67
1,2-Dichloroethane	ND		170	50	ug/L			04/20/18 11:07	166.67
Acetone	5.0	J	10	1.8	ug/L			04/19/18 16:56	1
Benzene	87	J	170	47	ug/L			04/20/18 11:07	166.67
Chlorobenzene	ND		170	53	ug/L			04/20/18 11:07	166.67
Chloroethane	92	J	170	68	ug/L			04/20/18 11:07	166.67
cis-1,2-Dichloroethene	15		1.0	0.30	ug/L			04/19/18 16:56	1
Ethylbenzene	990		170	43	ug/L			04/20/18 11:07	166.67
Toluene	3700		170	38	ug/L			04/20/18 11:07	166.67
trans-1,2-Dichloroethene	2.7		1.0	0.29	ug/L			04/19/18 16:56	1
Trichloroethene	1.6		1.0	0.33	ug/L			04/19/18 16:56	1
Vinyl chloride	21		1.0	0.45	ug/L			04/19/18 16:56	1
Xylenes, Total	820		2.0	0.24	ug/L			04/19/18 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*04/19/18 16:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/20/18 11:07*	*166.67*
4-Bromofluorobenzene (Surr)	*104*		*69 - 120*		*04/19/18 16:56*	*1*
4-Bromofluorobenzene (Surr)	*75*		*69 - 120*		*04/20/18 11:07*	*166.67*
Dibromofluoromethane (Surr)	*109*		*69 - 124*		*04/19/18 16:56*	*1*
Dibromofluoromethane (Surr)	*98*		*69 - 124*		*04/20/18 11:07*	*166.67*
Toluene-d8 (Surr)	*117*		*73 - 120*		*04/19/18 16:56*	*1*
Toluene-d8 (Surr)	*99*		*73 - 120*		*04/20/18 11:07*	*166.67*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: RB-040918-NK-008

Lab Sample ID: 240-93872-8

Date Collected: 04/09/18 18:07
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 10:44	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/20/18 10:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 10:44	1
Acetone	ND		10	1.8	ug/L			04/20/18 10:44	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 10:44	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 10:44	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 10:44	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/20/18 10:44	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 10:44	1
Toluene	**0.38**	**J**	1.0	0.23	ug/L			04/20/18 10:44	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/20/18 10:44	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 10:44	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 10:44	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*04/20/18 10:44*	*1*
4-Bromofluorobenzene (Surr)	*81*		*69 - 120*		*04/20/18 10:44*	*1*
Dibromofluoromethane (Surr)	*107*		*69 - 124*		*04/20/18 10:44*	*1*
Toluene-d8 (Surr)	*112*		*73 - 120*		*04/20/18 10:44*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-93872-9

Date Collected: 04/09/18 00:00
Matrix: Water
Date Received: 04/10/18 13:13

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 17:42	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 17:42	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 17:42	1
Acetone	ND		10	1.8	ug/L			04/19/18 17:42	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 17:42	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 17:42	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 17:42	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/19/18 17:42	1
Ethylbenzene	**0.32**	**J**	1.0	0.26	ug/L			04/19/18 17:42	1
Toluene	**0.94**	**J**	1.0	0.23	ug/L			04/19/18 17:42	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 17:42	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 17:42	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 17:42	1
Xylenes, Total	**0.74**	**J**	2.0	0.24	ug/L			04/19/18 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 138*		*04/19/18 17:42*	*1*
4-Bromofluorobenzene (Surr)	*77*		*69 - 120*		*04/19/18 17:42*	*1*
Dibromofluoromethane (Surr)	*105*		*69 - 124*		*04/19/18 17:42*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*04/19/18 17:42*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-009

Lab Sample ID: 240-93872-10

Date Collected: 04/10/18 07:45
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 18:04	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 18:04	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 18:04	1
Acetone	ND		10	1.8	ug/L			04/19/18 18:04	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 18:04	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 18:04	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 18:04	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/19/18 18:04	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 18:04	1
Toluene	**0.50**	**J**	1.0	0.23	ug/L			04/19/18 18:04	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 18:04	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 18:04	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 18:04	1
Xylenes, Total	**0.41**	**J**	2.0	0.24	ug/L			04/19/18 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 138*		*04/19/18 18:04*	*1*
4-Bromofluorobenzene (Surr)	*81*		*69 - 120*		*04/19/18 18:04*	*1*
Dibromofluoromethane (Surr)	*111*		*69 - 124*		*04/19/18 18:04*	*1*
Toluene-d8 (Surr)	*115*		*73 - 120*		*04/19/18 18:04*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-010

Lab Sample ID: 240-93872-11

Date Collected: 04/10/18 08:10
Matrix: Water
Date Received: 04/10/18 13:13

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 18:27	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 18:27	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 18:27	1
Acetone	**4.4**	**J**	10	1.8	ug/L			04/19/18 18:27	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 18:27	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 18:27	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 18:27	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/19/18 18:27	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 18:27	1
Toluene	**0.31**	**J**	1.0	0.23	ug/L			04/19/18 18:27	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 18:27	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 18:27	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 18:27	1
Xylenes, Total	**0.26**	**J**	2.0	0.24	ug/L			04/19/18 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*		*04/19/18 18:27*	*1*
4-Bromofluorobenzene (Surr)	*79*		*69 - 120*		*04/19/18 18:27*	*1*
Dibromofluoromethane (Surr)	*101*		*69 - 124*		*04/19/18 18:27*	*1*
Toluene-d8 (Surr)	*107*		*73 - 120*		*04/19/18 18:27*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-011

Lab Sample ID: 240-93872-12

Date Collected: 04/10/18 08:30
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 18:50	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 18:50	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 18:50	1
Acetone	ND		10	1.8	ug/L			04/19/18 18:50	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 18:50	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 18:50	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 18:50	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/19/18 18:50	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 18:50	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 18:50	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 18:50	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 18:50	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 18:50	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/19/18 18:50*	*1*
4-Bromofluorobenzene (Surr)	*74*		*69 - 120*		*04/19/18 18:50*	*1*
Dibromofluoromethane (Surr)	*103*		*69 - 124*		*04/19/18 18:50*	*1*
Toluene-d8 (Surr)	*105*		*73 - 120*		*04/19/18 18:50*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-012

Lab Sample ID: 240-93872-13

Date Collected: 04/10/18 08:50
Matrix: Water
Date Received: 04/10/18 13:13

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 19:12	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 19:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 19:12	1
Acetone	ND		10	1.8	ug/L			04/19/18 19:12	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 19:12	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 19:12	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 19:12	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/19/18 19:12	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 19:12	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 19:12	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 19:12	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 19:12	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 19:12	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 138*		*04/19/18 19:12*	*1*
4-Bromofluorobenzene (Surr)	*76*		*69 - 120*		*04/19/18 19:12*	*1*
Dibromofluoromethane (Surr)	*98*		*69 - 124*		*04/19/18 19:12*	*1*
Toluene-d8 (Surr)	*108*		*73 - 120*		*04/19/18 19:12*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-013

Lab Sample ID: 240-93872-14

Date Collected: 04/10/18 10:30
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 19:35	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 19:35	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 19:35	1
Acetone	ND		10	1.8	ug/L			04/19/18 19:35	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 19:35	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 19:35	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 19:35	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/19/18 19:35	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 19:35	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 19:35	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 19:35	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 19:35	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 19:35	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 138*		*04/19/18 19:35*	*1*
4-Bromofluorobenzene (Surr)	*69*		*69 - 120*		*04/19/18 19:35*	*1*
Dibromofluoromethane (Surr)	*94*		*69 - 124*		*04/19/18 19:35*	*1*
Toluene-d8 (Surr)	*97*		*73 - 120*		*04/19/18 19:35*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-014

Lab Sample ID: 240-93872-15

Date Collected: 04/10/18 10:50
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 19:58	1
1,1-Dichloroethane	**0.43**	**J**	1.0	0.25	ug/L			04/19/18 19:58	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 19:58	1
Acetone	ND		10	1.8	ug/L			04/19/18 19:58	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 19:58	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 19:58	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 19:58	1
cis-1,2-Dichloroethene	**0.72**	**J**	1.0	0.30	ug/L			04/19/18 19:58	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 19:58	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 19:58	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 19:58	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 19:58	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 19:58	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*		*04/19/18 19:58*	*1*
4-Bromofluorobenzene (Surr)	*81*		*69 - 120*		*04/19/18 19:58*	*1*
Dibromofluoromethane (Surr)	*104*		*69 - 124*		*04/19/18 19:58*	*1*
Toluene-d8 (Surr)	*110*		*73 - 120*		*04/19/18 19:58*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-015

Lab Sample ID: 240-93872-16

Date Collected: 04/10/18 10:50
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 11:53	1
1,1-Dichloroethane	**0.40**	**J**	1.0	0.25	ug/L			04/20/18 11:53	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 11:53	1
Acetone	ND		10	1.8	ug/L			04/20/18 11:53	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 11:53	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 11:53	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 11:53	1
cis-1,2-Dichloroethene	**0.74**	**J**	1.0	0.30	ug/L			04/20/18 11:53	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 11:53	1
Toluene	ND		1.0	0.23	ug/L			04/20/18 11:53	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/20/18 11:53	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 11:53	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 11:53	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/20/18 11:53*	*1*
4-Bromofluorobenzene (Surr)	*75*		*69 - 120*		*04/20/18 11:53*	*1*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*04/20/18 11:53*	*1*
Toluene-d8 (Surr)	*105*		*73 - 120*		*04/20/18 11:53*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: RB-041018-NK-016

Lab Sample ID: 240-93872-17

Date Collected: 04/10/18 11:10
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 12:16	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/20/18 12:16	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 12:16	1
Acetone	ND		10	1.8	ug/L			04/20/18 12:16	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 12:16	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 12:16	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 12:16	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/20/18 12:16	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 12:16	1
Toluene	ND		1.0	0.23	ug/L			04/20/18 12:16	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/20/18 12:16	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 12:16	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 12:16	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/20/18 12:16*	*1*
4-Bromofluorobenzene (Surr)	*79*		*69 - 120*		*04/20/18 12:16*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*04/20/18 12:16*	*1*
Toluene-d8 (Surr)	*109*		*73 - 120*		*04/20/18 12:16*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-93872-18

Date Collected: 04/10/18 00:00
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 12:38	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/20/18 12:38	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 12:38	1
Acetone	ND		10	1.8	ug/L			04/20/18 12:38	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 12:38	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 12:38	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 12:38	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/20/18 12:38	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 12:38	1
Toluene	ND		1.0	0.23	ug/L			04/20/18 12:38	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/20/18 12:38	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 12:38	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 12:38	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*		*04/20/18 12:38*	*1*
4-Bromofluorobenzene (Surr)	*72*		*69 - 120*		*04/20/18 12:38*	*1*
Dibromofluoromethane (Surr)	*102*		*69 - 124*		*04/20/18 12:38*	*1*
Toluene-d8 (Surr)	*106*		*73 - 120*		*04/20/18 12:38*	*1*

Surrogate Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(61-138)	(69-120)	(69-124)	(73-120)
240-93872-1	GW-040918-NK-001	87	78	97	100
240-93872-1	GW-040918-NK-001	96	78	102	110
240-93872-2	GW-040918-NK-002	89	80	98	108
240-93872-2	GW-040918-NK-002	94	81	100	111
240-93872-3	GW-040918-NK-003	80	72	94	98
240-93872-3	GW-040918-NK-003	94	78	104	107
240-93872-4	GW-040918-NK-004	90	74	102	104
240-93872-4 MS	GW-040918-NK-004	95	81	101	108
240-93872-4 MSD	GW-040918-NK-004	92	80	97	106
240-93872-5	GW-040918-NK-005	105	88	115	119
240-93872-5	GW-040918-NK-005	83	70	92	98
240-93872-6	GW-040918-NK-006	93	80	104	105
240-93872-7	GW-040918-NK-007	97	104	109	117
240-93872-7	GW-040918-NK-007	93	75	98	99
240-93872-8	RB-040918-NK-008	100	81	107	112
240-93872-9	TRIP BLANK	98	77	105	107
240-93872-10	GW-041018-NK-009	103	81	111	115
240-93872-11	GW-041018-NK-010	95	79	101	107
240-93872-12	GW-041018-NK-011	93	74	103	105
240-93872-13	GW-041018-NK-012	90	76	98	108
240-93872-14	GW-041018-NK-013	84	69	94	97
240-93872-15	GW-041018-NK-014	96	81	104	110
240-93872-16	GW-041018-NK-015	93	75	102	105
240-93872-17	RB-041018-NK-016	93	79	106	109
240-93872-18	TRIP BLANK	91	72	102	106
LCS 240-322950/4	Lab Control Sample	91	83	100	103
LCS 240-323134/4	Lab Control Sample	96	83	105	112
LCS 240-323346/4	Lab Control Sample	91	81	103	107
MB 240-322950/6	Method Blank	108	89	115	115
MB 240-323134/6	Method Blank	100	78	106	110
MB 240-323346/6	Method Blank	95	82	109	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-322950/6
Matrix: Water
Analysis Batch: 322950

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/18/18 09:32	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/18/18 09:32	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/18/18 09:32	1
Acetone	ND		10	1.8	ug/L			04/18/18 09:32	1
Benzene	ND		1.0	0.28	ug/L			04/18/18 09:32	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/18/18 09:32	1
Chloroethane	ND		1.0	0.41	ug/L			04/18/18 09:32	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/18/18 09:32	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/18/18 09:32	1
Toluene	ND		1.0	0.23	ug/L			04/18/18 09:32	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/18/18 09:32	1
Trichloroethene	ND		1.0	0.33	ug/L			04/18/18 09:32	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/18/18 09:32	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/18/18 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*61 - 138*		*04/18/18 09:32*	*1*
4-Bromofluorobenzene (Surr)	*89*		*69 - 120*		*04/18/18 09:32*	*1*
Dibromofluoromethane (Surr)	*115*		*69 - 124*		*04/18/18 09:32*	*1*
Toluene-d8 (Surr)	*115*		*73 - 120*		*04/18/18 09:32*	*1*

Lab Sample ID: LCS 240-322950/4
Matrix: Water
Analysis Batch: 322950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	64 - 147
1,1-Dichloroethane	10.0	10.4		ug/L		104	74 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	68 - 133
Acetone	20.0	8.76	J	ug/L		44	35 - 131
Benzene	10.0	10.1		ug/L		101	79 - 120
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
Chloroethane	10.0	11.0		ug/L		110	10 - 149
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	77 - 120
Ethylbenzene	10.0	9.82		ug/L		98	80 - 120
Toluene	10.0	10.7		ug/L		107	78 - 120
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	74 - 124
Trichloroethene	10.0	10.6		ug/L		106	76 - 124
Vinyl chloride	10.0	9.48		ug/L		95	65 - 124
Xylenes, Total	20.0	19.5		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*
4-Bromofluorobenzene (Surr)	*83*		*69 - 120*
Dibromofluoromethane (Surr)	*100*		*69 - 124*
Toluene-d8 (Surr)	*103*		*73 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-323134/6
Matrix: Water
Analysis Batch: 323134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 10:31	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 10:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 10:31	1
Acetone	ND		10	1.8	ug/L			04/19/18 10:31	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 10:31	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 10:31	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 10:31	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/19/18 10:31	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 10:31	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 10:31	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/19/18 10:31	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 10:31	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 10:31	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*04/19/18 10:31*	*1*
4-Bromofluorobenzene (Surr)	*78*		*69 - 120*		*04/19/18 10:31*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*04/19/18 10:31*	*1*
Toluene-d8 (Surr)	*110*		*73 - 120*		*04/19/18 10:31*	*1*

Lab Sample ID: LCS 240-323134/4
Matrix: Water
Analysis Batch: 323134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	64 - 147
1,1-Dichloroethane	10.0	10.8		ug/L		108	74 - 120
1,2-Dichloroethane	10.0	11.3		ug/L		113	68 - 133
Acetone	20.0	16.2		ug/L		81	35 - 131
Benzene	10.0	10.6		ug/L		106	79 - 120
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
Chloroethane	10.0	12.9		ug/L		129	10 - 149
cis-1,2-Dichloroethene	10.0	11.1		ug/L		111	77 - 120
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
Toluene	10.0	11.3		ug/L		113	78 - 120
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	74 - 124
Trichloroethene	10.0	10.9		ug/L		109	76 - 124
Vinyl chloride	10.0	10.7		ug/L		107	65 - 124
Xylenes, Total	20.0	19.6		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*
4-Bromofluorobenzene (Surr)	*83*		*69 - 120*
Dibromofluoromethane (Surr)	*105*		*69 - 124*
Toluene-d8 (Surr)	*112*		*73 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-93872-4 MS — **Client Sample ID: GW-040918-NK-004**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		10.0	9.18		ug/L		92	57 - 156
1,1-Dichloroethane	ND		10.0	10.1		ug/L		101	69 - 122
1,2-Dichloroethane	ND		10.0	9.92		ug/L		99	64 - 138
Acetone	ND		20.0	11.9		ug/L		60	19 - 133
Benzene	ND		10.0	9.80		ug/L		98	69 - 127
Chlorobenzene	ND		10.0	9.92		ug/L		99	76 - 120
Chloroethane	ND		10.0	11.5		ug/L		115	10 - 141
cis-1,2-Dichloroethene	ND		10.0	10.2		ug/L		102	69 - 127
Ethylbenzene	ND		10.0	9.60		ug/L		96	72 - 121
Toluene	ND		10.0	10.6		ug/L		106	69 - 125
trans-1,2-Dichloroethene	ND		10.0	9.87		ug/L		99	66 - 131
Trichloroethene	ND		10.0	10.2		ug/L		102	68 - 129
Vinyl chloride	ND	F2	10.0	9.75		ug/L		98	55 - 123
Xylenes, Total	ND		20.0	18.9		ug/L		95	71 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*
4-Bromofluorobenzene (Surr)	*81*		*69 - 120*
Dibromofluoromethane (Surr)	*101*		*69 - 124*
Toluene-d8 (Surr)	*108*		*73 - 120*

Lab Sample ID: 240-93872-4 MSD — **Client Sample ID: GW-040918-NK-004**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		10.0	10.0		ug/L		100	57 - 156	9	13
1,1-Dichloroethane	ND		10.0	10.5		ug/L		105	69 - 122	3	11
1,2-Dichloroethane	ND		10.0	10.7		ug/L		107	64 - 138	7	11
Acetone	ND		20.0	14.3		ug/L		72	19 - 133	18	35
Benzene	ND		10.0	10.2		ug/L		102	69 - 127	4	10
Chlorobenzene	ND		10.0	10.3		ug/L		103	76 - 120	4	12
Chloroethane	ND		10.0	12.9		ug/L		129	10 - 141	12	35
cis-1,2-Dichloroethene	ND		10.0	10.6		ug/L		106	69 - 127	4	11
Ethylbenzene	ND		10.0	9.85		ug/L		98	72 - 121	3	15
Toluene	ND		10.0	10.7		ug/L		107	69 - 125	1	14
trans-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	66 - 131	5	11
Trichloroethene	ND		10.0	10.5		ug/L		105	68 - 129	3	12
Vinyl chloride	ND	F2	10.0	11.1	F2	ug/L		111	55 - 123	13	12
Xylenes, Total	ND		20.0	19.0		ug/L		95	71 - 122	0	14

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 138*
4-Bromofluorobenzene (Surr)	*80*		*69 - 120*
Dibromofluoromethane (Surr)	*97*		*69 - 124*
Toluene-d8 (Surr)	*106*		*73 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-323346/6
Matrix: Water
Analysis Batch: 323346

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 10:21	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/20/18 10:21	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 10:21	1
Acetone	ND		10	1.8	ug/L			04/20/18 10:21	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 10:21	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 10:21	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 10:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/20/18 10:21	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 10:21	1
Toluene	ND		1.0	0.23	ug/L			04/20/18 10:21	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			04/20/18 10:21	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 10:21	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 10:21	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*		*04/20/18 10:21*	*1*
4-Bromofluorobenzene (Surr)	*82*		*69 - 120*		*04/20/18 10:21*	*1*
Dibromofluoromethane (Surr)	*109*		*69 - 124*		*04/20/18 10:21*	*1*
Toluene-d8 (Surr)	*111*		*73 - 120*		*04/20/18 10:21*	*1*

Lab Sample ID: LCS 240-323346/4
Matrix: Water
Analysis Batch: 323346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	64 - 147
1,1-Dichloroethane	10.0	10.4		ug/L		104	74 - 120
1,2-Dichloroethane	10.0	10.7		ug/L		107	68 - 133
Acetone	20.0	14.3		ug/L		72	35 - 131
Benzene	10.0	10.4		ug/L		104	79 - 120
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Chloroethane	10.0	12.7		ug/L		127	10 - 149
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	77 - 120
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
Toluene	10.0	11.1		ug/L		111	78 - 120
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	74 - 124
Trichloroethene	10.0	10.7		ug/L		107	76 - 124
Vinyl chloride	10.0	10.9		ug/L		109	65 - 124
Xylenes, Total	20.0	19.4		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*
4-Bromofluorobenzene (Surr)	*81*		*69 - 120*
Dibromofluoromethane (Surr)	*103*		*69 - 124*
Toluene-d8 (Surr)	*107*		*73 - 120*

QC Association Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

GC/MS VOA

Analysis Batch: 322950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93872-1	GW-040918-NK-001	Total/NA	Water	8260C	
240-93872-2	GW-040918-NK-002	Total/NA	Water	8260C	
240-93872-3	GW-040918-NK-003	Total/NA	Water	8260C	
240-93872-5	GW-040918-NK-005	Total/NA	Water	8260C	
240-93872-6	GW-040918-NK-006	Total/NA	Water	8260C	
MB 240-322950/6	Method Blank	Total/NA	Water	8260C	
LCS 240-322950/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 323134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93872-1	GW-040918-NK-001	Total/NA	Water	8260C	
240-93872-2	GW-040918-NK-002	Total/NA	Water	8260C	
240-93872-3	GW-040918-NK-003	Total/NA	Water	8260C	
240-93872-4	GW-040918-NK-004	Total/NA	Water	8260C	
240-93872-5	GW-040918-NK-005	Total/NA	Water	8260C	
240-93872-7	GW-040918-NK-007	Total/NA	Water	8260C	
240-93872-9	TRIP BLANK	Total/NA	Water	8260C	
240-93872-10	GW-041018-NK-009	Total/NA	Water	8260C	
240-93872-11	GW-041018-NK-010	Total/NA	Water	8260C	
240-93872-12	GW-041018-NK-011	Total/NA	Water	8260C	
240-93872-13	GW-041018-NK-012	Total/NA	Water	8260C	
240-93872-14	GW-041018-NK-013	Total/NA	Water	8260C	
240-93872-15	GW-041018-NK-014	Total/NA	Water	8260C	
MB 240-323134/6	Method Blank	Total/NA	Water	8260C	
LCS 240-323134/4	Lab Control Sample	Total/NA	Water	8260C	
240-93872-4 MS	GW-040918-NK-004	Total/NA	Water	8260C	
240-93872-4 MSD	GW-040918-NK-004	Total/NA	Water	8260C	

Analysis Batch: 323346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93872-7	GW-040918-NK-007	Total/NA	Water	8260C	
240-93872-8	RB-040918-NK-008	Total/NA	Water	8260C	
240-93872-16	GW-041018-NK-015	Total/NA	Water	8260C	
240-93872-17	RB-041018-NK-016	Total/NA	Water	8260C	
240-93872-18	TRIP BLANK	Total/NA	Water	8260C	
MB 240-323346/6	Method Blank	Total/NA	Water	8260C	
LCS 240-323346/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-001 — Lab Sample ID: 240-93872-1

Date Collected: 04/09/18 16:30 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2.5	322950	04/18/18 16:49	LEE	TAL CAN
Total/NA	Analysis	8260C		25	323134	04/19/18 15:04	LEE	TAL CAN

Client Sample ID: GW-040918-NK-002 — Lab Sample ID: 240-93872-2

Date Collected: 04/09/18 17:00 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2.5	322950	04/18/18 17:11	LEE	TAL CAN
Total/NA	Analysis	8260C		25	323134	04/19/18 15:26	LEE	TAL CAN

Client Sample ID: GW-040918-NK-003 — Lab Sample ID: 240-93872-3

Date Collected: 04/09/18 17:00 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	322950	04/18/18 17:33	LEE	TAL CAN
Total/NA	Analysis	8260C		10	323134	04/19/18 15:49	LEE	TAL CAN

Client Sample ID: GW-040918-NK-004 — Lab Sample ID: 240-93872-4

Date Collected: 04/09/18 17:15 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 16:11	LEE	TAL CAN

Client Sample ID: GW-040918-NK-005 — Lab Sample ID: 240-93872-5

Date Collected: 04/09/18 17:35 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		3.33	322950	04/18/18 17:56	LEE	TAL CAN
Total/NA	Analysis	8260C		1	323134	04/19/18 16:34	LEE	TAL CAN

Client Sample ID: GW-040918-NK-006 — Lab Sample ID: 240-93872-6

Date Collected: 04/09/18 17:50 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	322950	04/18/18 18:19	LEE	TAL CAN

Lab Chronicle

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-040918-NK-007 — Lab Sample ID: 240-93872-7

Date Collected: 04/09/18 18:05 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 16:56	LEE	TAL CAN
Total/NA	Analysis	8260C		166.67	323346	04/20/18 11:07	LEE	TAL CAN

Client Sample ID: RB-040918-NK-008 — Lab Sample ID: 240-93872-8

Date Collected: 04/09/18 18:07 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323346	04/20/18 10:44	LEE	TAL CAN

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-93872-9

Date Collected: 04/09/18 00:00 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 17:42	LEE	TAL CAN

Client Sample ID: GW-041018-NK-009 — Lab Sample ID: 240-93872-10

Date Collected: 04/10/18 07:45 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 18:04	LEE	TAL CAN

Client Sample ID: GW-041018-NK-010 — Lab Sample ID: 240-93872-11

Date Collected: 04/10/18 08:10 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 18:27	LEE	TAL CAN

Client Sample ID: GW-041018-NK-011 — Lab Sample ID: 240-93872-12

Date Collected: 04/10/18 08:30 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 18:50	LEE	TAL CAN

Lab Chronicle

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Client Sample ID: GW-041018-NK-012 — Lab Sample ID: 240-93872-13

Date Collected: 04/10/18 08:50 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 19:12	LEE	TAL CAN

Client Sample ID: GW-041018-NK-013 — Lab Sample ID: 240-93872-14

Date Collected: 04/10/18 10:30 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 19:35	LEE	TAL CAN

Client Sample ID: GW-041018-NK-014 — Lab Sample ID: 240-93872-15

Date Collected: 04/10/18 10:50 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 19:58	LEE	TAL CAN

Client Sample ID: GW-041018-NK-015 — Lab Sample ID: 240-93872-16

Date Collected: 04/10/18 10:50 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323346	04/20/18 11:53	LEE	TAL CAN

Client Sample ID: RB-041018-NK-016 — Lab Sample ID: 240-93872-17

Date Collected: 04/10/18 11:10 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323346	04/20/18 12:16	LEE	TAL CAN

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-93872-18

Date Collected: 04/10/18 00:00 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323346	04/20/18 12:38	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual GW

TestAmerica Job ID: 240-93872-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18 *
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18 *
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, Ohio 44720
Ph. (330) 497-9396 ; fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Mike Gibson	Site Contact: SNFT	Date: 4/10/18	COC No:
Eagon & Associates, Inc.	Sampler: AD, NK, AG	Lab Contact: Patrick J. O'Meara	Carrier: HAND DELIVERED	1 of 2 COCs
100 Old Wilson Bridge Road, Suite 115	Analysis Turnaround Time			For Lab Use Only:
Worthington, Ohio 43085	☐ CALENDAR DAYS ☑ WORKING DAYS			Walk-in Client:
(614) 888-5760 Ph. / (614) 888-5760 Fax	TAT if different from Below _____			Lab Sampling:
a.graham@eagoninc.com / mgibson@eagoninc.com	☑ 2 weeks			
Project Name: Summit National - 2017 Annual GW	☐ 1 week			Job / SDG No.:
Site: Summit National Superfund Site	☐ 2 days			
P O # No PO required	☐ 1 day			Sampler: AD, NK, AG

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260C - (MOD) SSIPL VOCs	Sample Specific Notes:
GW-040918-NK-001	4/9/18	1630	Grab	Water	3	N		X	
GW-040918-NK-002		1700				N		X	
GW-040918-NK-003		1700				N		X	
GW-040918-NK-004		1715				N		X	
GW-040918-NK-004 MS		1715				N		X	
GW-040918-NK-004 MSD		1715				N		X	
GW-040918-NK-005		1735				N		X	
GW-040918-NK-006		1750				N		X	
GW-040918-NK-007		1805				N		X	
RB-040918-NK-008		1807				N		X	
TRIP BLANK	—	—	—	O	2	N		X	
								2	

240-93872 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Andrew Bavilowsky, Andrew Bavilowsky	Eagon & Associates, Inc.	4/10/18 1313	Terry Burns	TA Can	4/10/18 1313
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.1, dated 02/20/2013

TestAmerica Canton
4101 Shuffel Street NW
North Canton, Ohio 44720
Ph. (330) 497-9396 ; fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Mike Gibson	Site Contact: SNFT	Date: 4/10/18	COC No:
Eagon & Associates, Inc.	Sampler: AB, NK, AG	Lab Contact: Patrick J. O'Meara	Carrier: HAND DELIVERED	2 of 2 COCs
100 Old Wilson Bridge Road, Suite 115	Analysis Turnaround Time			For Lab Use Only:
Worthington, Ohio 43085	☐ CALENDAR DAYS ☑ WORKING DAYS			Walk-in Client:
(614) 888-5760 Ph. / (614) 888-5760 Fax	TAT if different from Below _____			Lab Sampling:
a.graham@eagoninc.com / mgibson@eagoninc.com	☑ 2 weeks			
Project Name: Summit National - 2018 Annual GW	☐ 1 week			Job / SDG No.:
Site: Summit National Superfund Site	☐ 2 days			
P O # No PO required	☐ 1 day			Sampler: AB, NK, AG

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260C - (MOD) SSIPL VOCs	Sample Specific Notes:
GW-041018-NK-009	4/10/18	0745	Grab	Water	3	N		X	
GW-041018-NK-010	↓	0810	↓	↓	↓	N		X	
GW-041018-NK-011	↓	0830	↓	↓	↓	N		X	
GW-041018-NK-012	↓	0850	↓	↓	↓	N		X	
GW-041018-NK-013	↓	1030	↓	↓	↓	N		X	
GW-041018-NK-014	↓	1050	↓	↓	↓	N		X	
GW-041018-NK-015	↓	1050	↓	↓	↓	N		X	
RB-041018-NK-016	↓	1110	↓	↓	↓	N		X	
TRIP BLANK	—	—	—	O	2	N		X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								2	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Andrew Bardlowsky Andrew Bardlowsky	Eagon & Associates, Inc.	4/10/18 1313	Terry Burns	TA Can	4/10/18 1313
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.1, dated 02/20/2013

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 93872
Canton Facility

Client Eagon + Assoc Site Name _____ Cooler unpacked by: Terry Burns
Cooler Received on 4/10/18 Opened on 4/10/18
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____
Receipt After-hours: Drop-off Date/Time _____ Storage Location _____
TestAmerica Cooler # _____ Foam Box Client Cooler Box Other Multiple
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None
☒ See Multiple Cooler Form

1. Cooler temperature upon receipt
   ~~IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
   IR GUN #36 (CF +0.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   ~~IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC732776
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #3734501VB Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: TB

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____.

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login #: 93872

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Buffalo	8	3.6	3.7	ICE
TA No.		3.4	3.5	
DFW		3.8	3.9	
TA		3.2	3.3	

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-4

WELL DATA

Water-Level Date 04 09 18 (MM DD YY)

Water-Level Time 1036 (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) 1091.09 (ft/msl)

Depth to Water (DTW) (from TOC) 5.72 (ft)

Groundwater Elevation (site datum, from TOC) 1085.37 (ft/msl)

Total Well Depth (from TOC) 24.57 (ft)

Water Column Height (well depth - DTW) 18.85 (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 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

Tubing ID (Vol/Ft) X
A-3/8 inch (22 ml/ft)
B-1/4 inch (10 ml/ft)
C-1/8 inch (2.4 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 09 18	1205	00:50	124	235	188 DRY

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (¡C)	Turbidity (ntu)	Other
1206	5.73						
1205	START	0.0					
1212		1.25	6.28	2170	8.8		
1250	DRY	2.35					
4/10/18	SAMPLE						
0745	6.10	2.35	6.12	2410	6.7	8.47	

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)	OTHER
04 10 18	0745	2.35	6.12	2410	6.7	8.47	

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: 0-5 MPH FROM SW ↗ Air Temp: ~25°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): WELL VOL = 24.57' - 5.73' = 18.84' × 0.656 = 12.4 GAL × 3 = 37.2 GAL

SAMPLE ID# = GW-041018-NK-009

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
04/10/18	NEIL A KARON	[signature]	EAGON + ASSOCIATES, INC.

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

SUMMIT NATIONAL

Sample Point: MW-11

Water-Level Date: 04/09/18 (MM/DD/YY)

Water-Level Time: 09:42

Purge/Sample Method: 3-5
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

Well Elevation (at TOC) 1095.93 (ft/msl)

Depth to Water (DTW) (from TOC) 8.40 (ft)

Groundwater Elevation (site datum, from TOC) 1087.53 (ft/msl)

Total Well Depth (from TOC) 26.40 (ft)

Water Column Height (well depth - DTW) 18.0 (ft)

Casing ID 02 (in)

Is 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-Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device D

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)	TOTAL VOL PURGED (Liters, Gallons) (circle one)	PUMP/TUBING/WELL VOLS PURGED (optional)
04/09/18	15:06	00:30	30	120	4.0

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (~~ft~~ Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)
09:42	8.40						
15:06	START	0.0					
15:13		3.0	6.55	1.23	7.9		
15:21		6.0	6.59	1.17	7.7		
15:28		9.0	6.55	1.18	7.5		
15:36		12.0	6.55	1.29	7.7		
4/9/18							
17:35	SAMPLE						
	8.43	12.0	6.88	1.84	6.6	4.15	

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (~~ltr~~ Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
04/09/18	17:35	12.0	6.88	1.84	6.6	4.15	

Sample Apperance: Sl. cloudy **Odor:** None **Color:** None **Other:** —

Weather Conditions (at sample time): Wind Speed / Direction: ~5mph / NE Air Temp: ~35°F Precipitation: Y or N

Comments (including purge/well volume calculations if required): well vol. = 26.40 - 8.40 = 18.0 x 0.164 = 2.95 gallons

FIELD COMMENTS

SAMPLE I.D.#: GW-040918-NK-005

SAMPLES COLLECTED:
SSIPL VOCs (3-40mL VIALS)

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

4/9/18 — Date
Andrew D. Graham — Name
Signature

EAGON & ASSOCIATES, INC.

-200.0317

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-107

WELL DATA

Water-Level Date 04 09 18 (MM DD YY)

Water-Level Time 10:28 (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) 8.63 (ft)

Groundwater Elevation (site datum, from TOC) 1089.64 (ft/msl)

Total Well Depth (from TOC) 310.00 (ft)

Water Column Height (well depth - DTW) 22.37 (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.D. (JP)

Sampling Device: PX (JP)

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

Tubing ID (Vol/Ft): X — A-3/8 inch (22 ml/ft); B-1/4 inch (10 ml/ft); C-1/8 inch (2.4 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 09 18	1601	00:20	37	200	5.41

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L: Gals) circle one	pH (std)	Conductance (µmhos/cm)	Temp (¡C)	Turbidity (ntu)	Other
1557	8.63						
1601	START	0.0					
1605		4.0	6.67	1835	10.0		
1608		8.0	6.69	1897	10.1		
1612		12.0	6.68	1942	10.2		
1617		16.0	6.71	1978	10.2		
1621		20.0	6.70	2020	10.2	5.46	
4/09/18	SAMPLE						
1805	8.66	20.0	6.89	2120	6.1	4.25	

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)	OTHER
04 09 18	1805	20.0	6.89	2120	6.1	4.25	

FIELD COMMENTS

Sample Appearance: clear; black flecks **Odor:** strong stale **Color:** lt gray **Other:** —

Weather Conditions (at sample time): Wind Speed/Direction: ~5-10 mph/N Air Temp: ~35°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): WELL VOL = 31.00' - 8.63' = 22.37' x 0.164 = 3.7 GAL x 3 = 11.1 GAL

SAMPLE ID#: GW-040918-NK-007

SAMPLES COLLECTED: SSZPL VOCs (3-40 ml VIALS)

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

Date	Name	Signature	Company
4/9/18	NICK A KAROW	[signature]	EAGON + ASSOCIATES, INC.

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-108

WELL DATA

Water-Level Date: 04/09/18 (MM/DD/YY)

Water-Level Time: 09:28

Purge/Sample Method: 3-5
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

Well Elevation (at TOC) 109.96 (ft/msl)

Depth to Water (DTW) (from TOC) 4.82 (ft)

Groundwater Elevation (site datum, from TOC) 108.14 (ft/msl)

Total Well Depth (from TOC) 18.43 (ft)

Water Column Height (well depth - DTW) 13.61 (ft)

Casing ID 02 (in)

PURGE/SAMPLE EQUIPMENT

Is 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-Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

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*	TOTAL VOL PURGED (~~Liters~~ Gallons) *circle one*	~~PUMP/TUBING~~ WELL VOLS PURGED *(optional)*
04/09/18	14:18	0:34	23	125	5.4

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (~~L~~ Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)
09:28	4.82	—	—	—	—	—	—
14:18	START	0.0	—	—	—	—	—
14:25	—	2.5	6.56	1173	17.7	—	—
14:33	—	5.0	6.71	1246	16.9	—	—
14:38	—	7.5	6.63	1294	17.0	—	—
14:45	—	10.0	6.58	1333	17.3	—	—
14:52	—	12.5	6.58	1350	17.3	—	—
4/9/18	SAMPLE	—	—	—	—	—	—
17:00	4.85	12.5	6.59	1297	5.4	1.35	—

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (~~L~~ Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
04/09/18	17:00	12.5	6.59	1297	5.4	1.35	—

FIELD COMMENTS

Sample Apperance: slight cloudy **Odor:** slight sfulc **Color:** lt. orange **Other:** —

Weather Conditions (at sample time): **Wind Speed / Direction:** ~0-5 mph / N **Air Temp:** ~35°F **Precipitation:** (Y) or N

Comments (including purge/well volume calculations if required): well vol. = 18.43 - 4.82 = 13.61 x 0.164 = 2.23 gallons

Duplicate #1 sample collected

SAMPLE I.D.#: GW-040918-NK-002

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
4/9/18	Andrew D. Graham	

EAGON & ASSOCIATES, INC.

EA-200 0317

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-111

WELL DATA

Water-Level Date: 04/09/18 (MM/DD/YY)

Water-Level Time: 953

Purge/Sample Method: 3-5
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

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

Depth to Water (DTW) (from TOC) 11.98 (ft)

Groundwater Elevation (site datum, from TOC) 1087.69 (ft/msl)

Total Well Depth (from TOC) 29.30 (ft)

Water Column Height (well depth - DTW) 17.32 (ft)

Casing ID 02 ~~4~~ (in)

PURGE/SAMPLE EQUIPMENT

Is 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 — A-Submersible Pump, B-Peristaltic Pump, C-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*	TOTAL VOL PURGED (~~Liters~~ Gallons) *circle one*	~~PUMP/TUBING~~; WELL VOLS PURGED *(optional)*
04/09/18	1311	02:11	28	90	3.2

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (~~L~~ Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)
0953	11.98	—	—	—	—	—	—
1311	START	10	—	—	—	—	—
1316	—	30	5.96	2920	10.0	—	—
1325	—	60	6.06	2960	9.4	—	—
1332	—	90	6.01	2950	9.6	—	—
4/9/18	SAMPLE	—	—	—	—	—	—
1630	11.99	90	5.86	2860	7.6	1.07	—

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (~~L~~ Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
04/09/18	1630	90	5.86	2860	7.6	1.07	—

Sample Apperance: light cloudy **Odor:** None **Color:** slt orange **Other:** —

Weather Conditions (at sample time): Wind Speed / Direction: ~0-5mph / N Air Temp: ~35°F Precipitation (Y) or N

Comments (including purge/well volume calculations if required): Well vol = 29.30 - 11.98 = 17.32 x 0.164 = 2.84 gallons

FIELD COMMENTS

SAMPLE I.D.#: GW-040918-NK-001

SAMPLES COLLECTED:
SSIPL VOCs (3-40mL VIALS)

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

4/9/18 — Date
Andrew D. Graham — Name
Signature

EAGON & ASSOCIATES, INC.

EA-200 0317

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-113

WELL DATA

Water-Level Date (MM DD YY)	04 09 18	Water-Level Time (2400 Hr. Clock)	09:37	Purge/Sample Method:	DRY (X = Other; LF = Low Flow, P = Passive, Dry = Dry, 3-5 = 3-5 well vols.)
Well Elevation (at TOC)	1086.46 (ft/msl)	Depth to Water (DTW) (from TOC)	4.48 (ft)	Groundwater Elevation (site datum, from TOC)	1083.98 (ft/msl)
Total Well Depth (from TOC)	16.46 (ft)	Water Column Height (well depth - DTW)	11.98 (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): 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-1/8 inch (2.4 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 09 18	13:47	0:18	20	45	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)	Other
09:37	4.48						
13:47	START	00	—	—	—	—	—
13:53	—	20	7.18	3180	62	—	—
13:59	—	40	7.28	3190	63	—	—
14:05	DRY	45	—	—	—	—	—
4/10/18	SAMPLE	—	—	—	—	—	—
08:30	4.50	45	6.68	3620	53	12.6	—

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)	OTHER
04 10 18	08:30	45	6.68	3620	53	12.6	—

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: 0-5 MPH FROM SW Air Temp: ~25°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): WELL VOL = 16.46 - 4.48 = 11.98 x 0.164 = 1.96 gallons

SAMPLE ID# = GW-041018-NK-011

SAMPLES COLLECTED: SSZPL VOCs (3 - 40 mL VIALS)

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

Date	Name	Signature	Company
4/10/18	NICK A KAROW	[signature]	EAGON + ASSOCIATES, INC.

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-114

WELL DATA

Water-Level Date 04/09/18 (MM DD YY)

Water-Level Time 11:14 (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) 1097.27 (ft/msl)

Depth to Water (DTW) (from TOC) 7.73 (ft)

Groundwater Elevation (site datum, from TOC) 1089.54 (ft/msl)

Total Well Depth (from TOC) 21.39 (ft)

Water Column Height (well depth - DTW) 13.66 (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) 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-1/8 inch (2.4 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)*
04/10/18	09:14	00:25	2.3	100	4.3

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L:Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (¡C)	Turbidity (ntu)	Other
09:10	7.83						
09:14	START	100					
09:19		25	6.17	2050	9.5		
09:26		50	5.87	2160	10.0		
09:32		75	5.78	2180	10.0		
09:39		100	5.83	2170	10.1	24.1	
4/10/18	SAMPLE						
10:30	9.13	100	6.04	2150	8.8	27.4	

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)	OTHER
04/10/18	10:30	100	6.04	2150	8.8	27.4	—

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: 5-10 MPH FROM SW Air Temp: ~25°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): WELL VOL = 21.39' - 7.83' = 13.56' x 0.164 = 2.3 GAL x 3 = 6.9 GAL

SAMPLE ID# = GW-041018-NK-013

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
4/10/18	Nick A Karow	[signature]	FAGON + ASSOCIATES, INC.

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-115

WELL DATA

Water-Level Date 04 09 18 (MM DD YY)

Water-Level Time 11:00 (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) 1101.83 (ft/msl)

Depth to Water (DTW) (from TOC) 16.35 (ft)

Groundwater Elevation (site datum, from TOC) 1085.48 (ft/msl)

Total Well Depth (from TOC) 40.98 (ft)

Water Column Height (well depth - DTW) 24.63 (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 — 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-1/8 inch (2.4 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 10 18	0957	00:13	41	128	3.12

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L : Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (¡C)	Turbidity (ntu)	Other
0952	16.35						
0957	START	10					
1002		43	6.31	20810	11.0		
1006		85	6.33	20510	11.1		
1010		128	6.35	20310	11.2	18.6	
4/10/18	SAMPLE						
1050	16.37	128	6.83	16.34	10.3	46.9	

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)	OTHER
04 10 18	1050	128	6.83	1634	10.3	46.9	—

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: 0-5 mph from SW ↗ Air Temp: ~30° C Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): WELL VOL: 40.98' - 16.35' = 24.63 x 0.164 = 4.1 GAL x 3 = 12.3 GAL

SAMPLE ID# - GW-041018-NK-014

SAMPLES COLLECTED: SSIPL VOCs (3-40 ml VEALS)

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

Date	Name	Signature	Company
4/10/18	NICK A KARON	[signature]	EARON & ASSOCIATES, INC

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-207

WELL DATA

Water-Level Date 04 09 18 (MM DD YY)

Water-Level Time 10:26 (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) 1098.51 (ft/msl)

Depth to Water (DTW) (from TOC) 90.7 (ft)

Groundwater Elevation (site datum, from TOC) 1089.44 (ft/msl)

Total Well Depth (from TOC) 498.4 (ft)

Water Column Height (well depth - DTW) 407.7 (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) 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-1/8 inch (2.4 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 09 18	15:25	00:23	6.7	21.0	3.13

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L:Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (¡C)	Turbidity (ntu)	Other
15:22	90.8						
15:25	START	10.0	~~6.34~~ (AD)	~~2500~~ (AD)	~~10.3~~ (AD)		
15:32		17.0	6.34	2500	10.3		
15:39		14.0	6.24	2530	10.5		
15:48		21.0	6.21	2540	10.6	6.19	
4/9/18	SAMPLE						
17:50	91.5	21.0	7.36	2230	6.3	~~6.19~~ (AD) 39.2	

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)	OTHER
04 09 18	17:50	21.0	7.36	2230	6.3	39.2	

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: ~0-5 mph / N Air Temp: ~35°F Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required): WELL VOL = 49.84' - 9.05' = 40.76' x 0.164 = 6.7 GAL x 3 = 20.1 GAL

SAMPLE ID #: GW-040918-NK-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
4/9/18	NICK A KARLOW	[signature]	EAGON + ASSOCIATES, INC

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-209

WELL DATA

Water-Level Date 04 09 18 (MM DD YY)

Water-Level Time 1041 (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) 46.3 (ft)

Groundwater Elevation (site datum, from TOC) 1083.03 (ft/msl)

Total Well Depth (from TOC) 377.0 (ft)

Water Column Height (well depth - DTW) 330.7 (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): 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-1/8 inch (2.4 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 09 18	1301	00:18	55	112	204 DRY

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L:Gals) circle one	pH (std)	Conductance (µmhos/cm)	Temp (¡C)	Turbidity (ntu)	Other
1258	46.3						
1301	START	00					
1308		55	6.26	2420	10.0		
1318		110	6.43	2050	10.0		
1319	DRY	112					
4/10/18	SAMPLE						
0810	10.85	112	6.07	2470	6.3	54.1	

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)	OTHER
04 10 18	0810	112	6.07	2470	6.3	54.1	

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: 0-5 MPH FROM SW ↗ Air Temp: ~25°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): WELL VOL = 377.0' - 46.3' = 33.07' x 0.164 = 5.5 GAL x 3 = 16.5 GAL

SAMPLE ID # = GW-041018-NK-010

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
4/10/18	NICK A KAROW	[signature]	EAGON & ASSOCIATES, INC.

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: MW-220

WELL DATA

Water-Level Date 04 09 18 (MM DD YY)

Water-Level Time 0938 (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) 7.67 (ft)

Groundwater Elevation (site datum, from TOC) 1083.25 (ft/msl)

Total Well Depth (from TOC) 38.65 (ft)

Water Column Height (well depth - DTW) 30.98 (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

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-1/8 inch (2.4 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 09 18	1338	0030	51	98	1.92 DRY

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L: Gals) circle one	pH (std)	Conductance (µmhos/cm)	Temp (¡C)	Turbidity (ntu)	Other
1335	7.67						
1338	START	0.0					
1350		5.3	7.44	3310	10.2		
1405	DRY	9.8					
4/10/18	SAMPLE						
0850		9.8	6.95	3040	7.9	3.58	

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)	OTHER
04 10 18	0850	9.8	6.95	3040	7.9	3.58	

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: 0-5 mph FROM SW Air Temp: ~25°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): WELL VOL = 38.65' - 7.67' = 30.98' × 0.164 = 5.1 GAL × 3 = 15.3 GAL

SAMPLE ID # = GW-041018-NK-012

SAMPLES COLLECTED:

SSZPL VOCS (3-40 mL VIALS)

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

Date	Name	Signature	Company
4/10/18	NICK A KARON	[signature]	EAGON & ASSOCIATES, INC.

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

Site Name: Summit National

Sample Point: MW-224

WELL DATA

Water-Level Date 04/09/18 (MM DD YY)

Water-Level Time 09:36 (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) 9.80 (ft)

Groundwater Elevation (site datum, from TOC) 1079.61 (ft/msl)

Total Well Depth (from TOC) 36.62 (ft)

Water Column Height (well depth - DTW) 26.82 (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) 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-1/8 inch (2.4 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)*
04/09/18	14:27	00:36	4.4	22.5	5

STABILIZATION DATA

Time (2400 Hr Clock)	DTW (ft)	Vol. Purged (L:Gals) *circle one*	pH (std)	Conductance (µmhos/cm)	Temp (¡C)	Turbidity (ntu)	Other
14:23	19.80						
14:27	START	10.0					
14:34		14.5	6.49	3230	10.7		
14:41		19.0	6.82	3160	10.8		
14:49		13.5	6.88	3110	10.7		
14:56		18.0	6.94	2680	10.8		
15:03		22.5	6.97	2660	10.9	8.89	
4/9/18	SAMPLE						
17:15	10.28	22.5	7.08	2670	8.0	11.7	
:							

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)	OTHER
04/09/18	17:15	22.5	7.08	2670	8.0	11.7	—

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: ~0-5mph / N Air Temp: ~35°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): Well Vol = 36.62' - 9.80' = 26.82' × 0.164 = 4.4 Gal × 3 = 13.2 Gallons

Matrix spike (MS) sample: GW-040918-NK-004MS & matrix spike duplicate (MSD) sample GW-040918-NK-004MSD collected @ MW-224.

Sample ID* = GW-040918-NK-004

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
4/9/18	Nick A Karow	[signature]	Eargon & Associates, Inc.

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: DUPLICATE #1

WELL DATA

Water-Level Date: (MM/DD/YY)

Water-Level Time:

Purge/Sample Method: —
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

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

Is 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-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*	TOTAL VOL PURGED (Liters : Gallons) *circle one*	PUMP/TUBING:WELL VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (L : Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)

SEE FIELD SHEET FOR WELL MW-108

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (L : Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
04 09 18	17:00	12.5	6.67	1306	51	145	—

FIELD COMMENTS

Sample Apperance: slight cloudy **Odor:** slight stale **Color:** lt orange **Other:** —

Weather Conditions (at sample time): **Wind Speed / Direction:** ~0-5 mph / N **Air Temp:** ~35°F **Precipitation:** (Y) or N

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

"Duplicate #1" is a duplicate by container sample collected from well MW-108; see MW-108 field sheet for well/purging information.

SAMPLE I.D.#: GW-040918-NK-003

SAMPLES COLLECTED:

SS.IPL VOCs (3-40mL VIALS)

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

Date	Name	Signature
4/9/18	Andrew D. Graham	

EAGON & ASSOCIATES, INC.

EA-200 0317

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

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-1/8 inch (2.4 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)	Other
	SEE FIELD SHEET FOR WELL MW-115						

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)	OTHER
04 10 18	1050	—	6.86	1643	10.3	43.2	—

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed/Direction: 0-5 mph from SW Air Temp: ~30°F Precipitation: Y or (N)

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

DUPLICATE #2 IS AN EXACT DUPLICATE BY CONTAINER OF MONITORING WELL MW-115

SEE FIELD SHEET FOR WELL MW-115 FOR WELL DATA & PURGE INFORMATION

SAMPLE ID #: GW-041018-NA-015 SAMPLES COLLECTED:

SSZPL VOCS (3-40 ml VIALS)

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

Date	Name	Signature	Company
4/10/18	NICK A KAROW	[signature]	EAGON & ASSOCIATES, INC

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: RINSE BLANK #1

WELL DATA

Water-Level Date: (MM/DD/YY)

Water-Level Time:

Purge/Sample Method: LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

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

Is 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 D-Bailer E-Piston Pump

Sampling Device ____ C-Bladder 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*	TOTAL VOL PURGED (Liters : Gallons) *circle one*	PUMP/TUBING:WELL VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (L : Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (L : Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
04/09/18	1807	—	8.24	4.58	9.4	1.24	—

FIELD COMMENTS

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

Weather Conditions (at sample time): Wind Speed / Direction: ~5-10 mph / N Air Temp: ~35°F Precipitation: Y or N

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 after use and decontamination at well MW-107.

SAMPLE I.D.#: RB-040918-NK-008

SAMPLES COLLECTED:

SSIPL VOCs (3-40mL VIALS)

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

4/9/18 Date — Andrew D. Graham Name — Signature

EAGON & ASSOCIATES, INC.

EA-200 0317

FIELD INFORMATION FORM

Site Name: _____ **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-1/8 inch (2.4 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)	Other

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)	OTHER
04 10 18	1110	—	4.80	60	12.2	0.93	—

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

Weather Conditions (at sample time): Wind Speed/Direction: 5-10 MPH FROM SW ↗ Air Temp: ~30°F Precipitation: Y or N

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

FIELD COMMENTS

RINSE BLANK #2 SAMPLE COLLECTED BY POURING LAB-SUPPLIED DI WATER OVER SS BAILER INTO SAMPLE CONTAINERS AFTER DECON & USE AT WELL MW-115.

SAMPLE ID # = RB-041018-NK-016 SAMPLES COLLECTED = SSZPL VOC'S (3-40 ml VIALS)

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

Date	Name	Signature	Company
4/10/18	Nick A Karow	[signature]	Eaton + Associates, Inc

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EA-100-A D: 6/03

FIELD METER CALIBRATION RECORD

Project Name: *Summit National Superfund Site* Sampler(s): A-GRAHAM

pH Meter(s): Make/Model/Serial No: Oakton 300 / 180251

Buffer Brand/Expiration: pH 4 IE - 7/19/19 ; pH 7 IE - 11/9/19 ; pH 10 IE - 7/12/19

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)
4/9/18	1257	Calibrate	4.03	7.00	9.95	9.9
4/10/18	0755	Calibrate	4.01	7.04	10.09	10.1

Conductivity/Temp. Meter(s): Make/Model/Serial No: Oakton 300 / 180251

Cond. Solution Brand/Expiration: IE - 9/14/18 Cond. Solution Value (@ 25 °C): 1413

Date	Time	Calibrate/Check	Cond. Standard Result (µmhos/cm)	Temp. of Cond. Soln' (°C)	Notes:
4/9/18	1254	Calibrate	1415	9.8	
4/10/18	0718	Calibrate	1415	11.3	

Turbidity Meter(s): Make/Model/Serial No.: Hach 2100P / 08030C028697

Date	Time	Calibrate/Check	Gel Value (NTU)	Reading (NTU)	Notes:
4/9/18	1301	check	4.55	4.43	
4/10/18	0758	check	4.55	4.33	

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

FIELD METER CALIBRATION RECORD

Project Name: Summit National Sampler(s): Nick A Karow, Andrew Bardzowsky

pH Meter(s): Make/Model/Serial No: ~~InSitu / SmarTroll / S/N 426917~~ Oakton/PC 450/2685708

Buffer Brand/Expiration: pH 4 IE/7-19-19 ; pH 7 IE/3-23-20 ; 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)
4/9/18	1124	calibrate	4.00	7.02	—	20.4
4/10/18	0715	calibrate	4.01	7.00	—	11.2

Conductivity/Temp. Meter(s): Make/Model/Serial No: ~~InSitu / SmarTroll / S/N 426917~~ Oakton/PC 450/2685708

Cond. Solution Brand/Expiration: IE/~~[illegible]~~ 7-4-2019 Cond. Solution Value (@ 25 °C): 1413

Date	Time	Calibrate/Check	Cond. Standard Result (µmhos/cm)	Temp. of Cond. Soln' (°C)	Notes:
4/9/18	1126	calibrate	1413	20.4	
4/10/18	0714	calibrate	1415	11.2	

Turbidity Meter(s): Make/Model/Serial No: Hach 2100Q/ S/N 14110C037175 ~~HACH 2100Q~~ ~~S/N 14110C037172~~

Date	Time	Calibrate/Check	Gel Value (NTU)	Reading (NTU)	Notes:
4/1/18	1128	check	5.06	5.21	
4/10/18	0716	check	5.06	5.20	

Sampler (Name): Nick A Karow, Andrew Bardzowsky Sampler (Signature): Andrew Bardzowsky

APPENDIX B.

LABORATORY ANALYTICAL REPORTS AND FIELD FORMS, APRIL 2018 S&E DITCH SURFACE WATER AND SEDIMENT SAMPLING RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-93874-1
Client Project/Site: Summit National - 2018 Annual SW

For:
Eagon & Associates, Inc.
100 Old Wilson Bridge Road
Suite 115
Worthington, Ohio 43085

Attn: Mr. Mike Gibson

Authorized for release by:
4/24/2018 1:04:25 PM
Kris Brooks, Project Manager II
(330)966-9790
kris.brooks@testamericainc.com

Designee for

Patrick O'Meara, Manager of Project Management
(330)966-5725
patrick.omeara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-93874-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Eagon & Associates, Inc.

Project: Summit National - 2018 Annual SW

Report Number: 240-93874-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/10/2018 1:13 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.3º C, 3.5º C, 3.7º C and 3.9º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SW-041018-AG-017 (240-93874-1), SW-041018-AG-018 (240-93874-2), FB-041018-AG-019 (240-93874-4) and TRIP BLANK (240-93874-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 04/20/2018.

Chloroethane, Chloromethane and Vinyl chloride failed the recovery criteria high for the MS of sample SW-041018-AG-017MS (240-93874-1) in batch 240-323346. Several analytes exceeded the RPD limit for the MSD of sample SW-041018-AG-017MSD (240-93874-1) in batch 240-323346. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 323346 recovered above the upper control limit for one or multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SW-041018-AG-017 (240-93874-1), SW-041018-AG-018 (240-93874-2), FB-041018-AG-019 (240-93874-4) and TRIP BLANK (240-93874-5).

Job ID: 240-93874-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SW-041018-AG-017 (240-93874-1), SW-041018-AG-018 (240-93874-2) and FB-041018-AG-019 (240-93874-4) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/11/2018 and analyzed on 04/12/2018.

Diethyl phthalate was detected in method blank MB 240-322049/7-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 240-322270 recovered above the upper control limit for 3-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SW-041018-AG-017 (240-93874-1), SW-041018-AG-018 (240-93874-2) and FB-041018-AG-019 (240-93874-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-93874-1	SW-041018-AG-017	Water	04/10/18 08:20	04/10/18 13:13
240-93874-2	SW-041018-AG-018	Water	04/10/18 08:20	04/10/18 13:13
240-93874-4	FB-041018-AG-019	Water	04/10/18 08:45	04/10/18 13:13
240-93874-5	TRIP BLANK	Water	04/10/18 00:00	04/10/18 13:13

Detection Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Client Sample ID: SW-041018-AG-017 — Lab Sample ID: 240-93874-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	0.99	J F2	2.0	0.56	ug/L	1		8260C	Total/NA
Diethyl phthalate	1.4	J B	1.8	0.11	ug/L	1		8270D	Total/NA

Client Sample ID: SW-041018-AG-018 — Lab Sample ID: 240-93874-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J	10	1.8	ug/L	1		8260C	Total/NA
1,2-Dichloroethene, Total	1.1	J	2.0	0.56	ug/L	1		8260C	Total/NA
Diethyl phthalate	0.92	J B	1.8	0.11	ug/L	1		8270D	Total/NA

Client Sample ID: FB-041018-AG-019 — Lab Sample ID: 240-93874-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	1.0	J B	1.8	0.11	ug/L	1		8270D	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-93874-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Client Sample ID: SW-041018-AG-017

Date Collected: 04/10/18 08:20
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93874-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.8	ug/L			04/20/18 13:01	1
Benzene	ND	F2	1.0	0.28	ug/L			04/20/18 13:01	1
Bromodichloromethane	ND	F2	1.0	0.30	ug/L			04/20/18 13:01	1
Bromoform	ND		1.0	0.43	ug/L			04/20/18 13:01	1
Bromomethane	ND		1.0	0.42	ug/L			04/20/18 13:01	1
2-Butanone	ND		10	1.0	ug/L			04/20/18 13:01	1
Carbon disulfide	ND	F2	1.0	0.34	ug/L			04/20/18 13:01	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			04/20/18 13:01	1
Chlorobenzene	ND	F2	1.0	0.32	ug/L			04/20/18 13:01	1
Chloroethane	ND	F1	1.0	0.41	ug/L			04/20/18 13:01	1
Chloroform	ND	F2	1.0	0.31	ug/L			04/20/18 13:01	1
Chloromethane	ND	F1	1.0	0.43	ug/L			04/20/18 13:01	1
cis-1,3-Dichloropropene	ND	F2	1.0	0.26	ug/L			04/20/18 13:01	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/20/18 13:01	1
1,1-Dichloroethane	ND	F2	1.0	0.25	ug/L			04/20/18 13:01	1
1,2-Dichloroethane	ND	F2	1.0	0.30	ug/L			04/20/18 13:01	1
1,1-Dichloroethene	ND	F2	1.0	0.27	ug/L			04/20/18 13:01	1
1,2-Dichloroethene, Total	**0.99**	**J F2**	2.0	0.56	ug/L			04/20/18 13:01	1
1,2-Dichloropropane	ND	F2	1.0	0.30	ug/L			04/20/18 13:01	1
Ethylbenzene	ND	F2	1.0	0.26	ug/L			04/20/18 13:01	1
2-Hexanone	ND		10	1.2	ug/L			04/20/18 13:01	1
Methylene Chloride	ND	F2	1.0	0.53	ug/L			04/20/18 13:01	1
4-Methyl-2-pentanone	ND		10	0.71	ug/L			04/20/18 13:01	1
Styrene	ND	F2	1.0	0.23	ug/L			04/20/18 13:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			04/20/18 13:01	1
Tetrachloroethene	ND	F2	1.0	0.30	ug/L			04/20/18 13:01	1
Toluene	ND	F2	1.0	0.23	ug/L			04/20/18 13:01	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			04/20/18 13:01	1
1,1,1-Trichloroethane	ND	F2	1.0	0.23	ug/L			04/20/18 13:01	1
1,1,2-Trichloroethane	ND	F2	1.0	0.34	ug/L			04/20/18 13:01	1
Trichloroethene	ND	F2	1.0	0.33	ug/L			04/20/18 13:01	1
Vinyl chloride	ND	F2 F1	1.0	0.45	ug/L			04/20/18 13:01	1
Xylenes, Total	ND	F2	2.0	0.24	ug/L			04/20/18 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*69 - 120*		*04/20/18 13:01*	*1*
Dibromofluoromethane (Surr)	*98*		*69 - 124*		*04/20/18 13:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 138*		*04/20/18 13:01*	*1*
Toluene-d8 (Surr)	*103*		*73 - 120*		*04/20/18 13:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.18	0.039	ug/L		04/11/18 08:29	04/12/18 14:38	1
Acenaphthylene	ND		0.18	0.018	ug/L		04/11/18 08:29	04/12/18 14:38	1
Anthracene	ND		0.18	0.028	ug/L		04/11/18 08:29	04/12/18 14:38	1
Benzo[a]anthracene	ND		0.18	0.053	ug/L		04/11/18 08:29	04/12/18 14:38	1
Benzo[a]pyrene	ND		0.18	0.027	ug/L		04/11/18 08:29	04/12/18 14:38	1
Benzo[b]fluoranthene	ND		0.18	0.053	ug/L		04/11/18 08:29	04/12/18 14:38	1
Benzo[g,h,i]perylene	ND		0.18	0.045	ug/L		04/11/18 08:29	04/12/18 14:38	1
Benzo[k]fluoranthene	ND		0.18	0.043	ug/L		04/11/18 08:29	04/12/18 14:38	1

Client Sample ID: SW-041018-AG-017

Lab Sample ID: 240-93874-1

Date Collected: 04/10/18 08:20

Matrix: Water

Date Received: 04/10/18 13:13

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		0.89	0.033	ug/L		04/11/18 08:29	04/12/18 14:38	1
Bis(2-chloroethyl)ether	ND		0.89	0.17	ug/L		04/11/18 08:29	04/12/18 14:38	1
Bis(2-ethylhexyl) phthalate	ND		4.5	1.4	ug/L		04/11/18 08:29	04/12/18 14:38	1
4-Bromophenyl phenyl ether	ND		1.8	0.31	ug/L		04/11/18 08:29	04/12/18 14:38	1
Butylbenzylphthalate	ND		1.8	0.19	ug/L		04/11/18 08:29	04/12/18 14:38	1
Carbazole	ND		0.89	0.094	ug/L		04/11/18 08:29	04/12/18 14:38	1
4-Chloroaniline	ND		1.8	0.13	ug/L		04/11/18 08:29	04/12/18 14:38	1
4-Chloro-3-methylphenol	ND		1.8	0.25	ug/L		04/11/18 08:29	04/12/18 14:38	1
2-Chloronaphthalene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 14:38	1
2-Chlorophenol	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 14:38	1
4-Chlorophenyl phenyl ether	ND		1.8	0.26	ug/L		04/11/18 08:29	04/12/18 14:38	1
Chrysene	ND		0.18	0.031	ug/L		04/11/18 08:29	04/12/18 14:38	1
Dibenz(a,h)anthracene	ND		0.18	0.036	ug/L		04/11/18 08:29	04/12/18 14:38	1
Dibenzofuran	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 14:38	1
1,2-Dichlorobenzene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 14:38	1
1,3-Dichlorobenzene	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 14:38	1
1,4-Dichlorobenzene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 14:38	1
3,3'-Dichlorobenzidine	ND		4.5	0.32	ug/L		04/11/18 08:29	04/12/18 14:38	1
2,4-Dichlorophenol	ND		1.8	0.26	ug/L		04/11/18 08:29	04/12/18 14:38	1
Diethyl phthalate	**1.4**	**J B**	1.8	0.11	ug/L		04/11/18 08:29	04/12/18 14:38	1
2,4-Dimethylphenol	ND		1.8	0.28	ug/L		04/11/18 08:29	04/12/18 14:38	1
Dimethyl phthalate	ND		1.8	0.090	ug/L		04/11/18 08:29	04/12/18 14:38	1
Di-n-butyl phthalate	ND		4.5	0.36	ug/L		04/11/18 08:29	04/12/18 14:38	1
4,6-Dinitro-2-methylphenol	ND		4.5	0.47	ug/L		04/11/18 08:29	04/12/18 14:38	1
2,4-Dinitrophenol	ND		36	5.5	ug/L		04/11/18 08:29	04/12/18 14:38	1
2,4-Dinitrotoluene	ND		4.5	0.23	ug/L		04/11/18 08:29	04/12/18 14:38	1
2,6-Dinitrotoluene	ND		4.5	0.21	ug/L		04/11/18 08:29	04/12/18 14:38	1
Di-n-octyl phthalate	ND		1.8	0.33	ug/L		04/11/18 08:29	04/12/18 14:38	1
Fluoranthene	ND		0.18	0.024	ug/L		04/11/18 08:29	04/12/18 14:38	1
Fluorene	ND		0.18	0.030	ug/L		04/11/18 08:29	04/12/18 14:38	1
Hexachlorobenzene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 14:38	1
Hexachlorobutadiene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 14:38	1
Hexachlorocyclopentadiene	ND		8.9	2.2	ug/L		04/11/18 08:29	04/12/18 14:38	1
Hexachloroethane	ND		0.89	0.20	ug/L		04/11/18 08:29	04/12/18 14:38	1
Indeno[1,2,3-cd]pyrene	ND		0.18	0.043	ug/L		04/11/18 08:29	04/12/18 14:38	1
Isophorone	ND		0.89	0.038	ug/L		04/11/18 08:29	04/12/18 14:38	1
2-Methylnaphthalene	ND		0.18	0.033	ug/L		04/11/18 08:29	04/12/18 14:38	1
2-Methylphenol	ND		0.89	0.17	ug/L		04/11/18 08:29	04/12/18 14:38	1
3 & 4 Methylphenol	ND		1.8	0.30	ug/L		04/11/18 08:29	04/12/18 14:38	1
Naphthalene	ND		0.18	0.038	ug/L		04/11/18 08:29	04/12/18 14:38	1
2-Nitroaniline	ND		1.8	0.28	ug/L		04/11/18 08:29	04/12/18 14:38	1
3-Nitroaniline	ND		1.8	0.24	ug/L		04/11/18 08:29	04/12/18 14:38	1
4-Nitroaniline	ND		1.8	0.22	ug/L		04/11/18 08:29	04/12/18 14:38	1
Nitrobenzene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 14:38	1
2-Nitrophenol	ND		1.8	0.18	ug/L		04/11/18 08:29	04/12/18 14:38	1
4-Nitrophenol	ND		4.5	0.52	ug/L		04/11/18 08:29	04/12/18 14:38	1
N-Nitrosodi-n-propylamine	ND		0.89	0.14	ug/L		04/11/18 08:29	04/12/18 14:38	1
N-Nitrosodiphenylamine	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 14:38	1
2,2'-oxybis[1-chloropropane]	ND		0.89	0.16	ug/L		04/11/18 08:29	04/12/18 14:38	1

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Client Sample ID: SW-041018-AG-017

Lab Sample ID: 240-93874-1

Date Collected: 04/10/18 08:20
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		36	4.9	ug/L		04/11/18 08:29	04/12/18 14:38	1
Phenanthrene	ND		0.18	0.028	ug/L		04/11/18 08:29	04/12/18 14:38	1
Phenol	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 14:38	1
Pyrene	ND		0.18	0.025	ug/L		04/11/18 08:29	04/12/18 14:38	1
1,2,4-Trichlorobenzene	ND		0.89	0.14	ug/L		04/11/18 08:29	04/12/18 14:38	1
2,4,5-Trichlorophenol	ND		4.5	0.33	ug/L		04/11/18 08:29	04/12/18 14:38	1
2,4,6-Trichlorophenol	ND		4.5	0.23	ug/L		04/11/18 08:29	04/12/18 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*32 - 120*	*04/11/18 08:29*	*04/12/18 14:38*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*04/11/18 08:29*	*04/12/18 14:38*	*1*
Nitrobenzene-d5 (Surr)	*68*		*35 - 120*	*04/11/18 08:29*	*04/12/18 14:38*	*1*
Phenol-d5 (Surr)	*47*		*15 - 120*	*04/11/18 08:29*	*04/12/18 14:38*	*1*
Terphenyl-d14 (Surr)	*88*		*28 - 128*	*04/11/18 08:29*	*04/12/18 14:38*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*33 - 120*	*04/11/18 08:29*	*04/12/18 14:38*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Client Sample ID: SW-041018-AG-018

Lab Sample ID: 240-93874-2

Date Collected: 04/10/18 08:20
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.2**	**J**	10	1.8	ug/L			04/20/18 14:09	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 14:09	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/20/18 14:09	1
Bromoform	ND		1.0	0.43	ug/L			04/20/18 14:09	1
Bromomethane	ND		1.0	0.42	ug/L			04/20/18 14:09	1
2-Butanone	ND		10	1.0	ug/L			04/20/18 14:09	1
Carbon disulfide	ND		1.0	0.34	ug/L			04/20/18 14:09	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			04/20/18 14:09	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 14:09	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 14:09	1
Chloroform	ND		1.0	0.31	ug/L			04/20/18 14:09	1
Chloromethane	ND		1.0	0.43	ug/L			04/20/18 14:09	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			04/20/18 14:09	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/20/18 14:09	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/20/18 14:09	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 14:09	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			04/20/18 14:09	1
1,2-Dichloroethene, Total	**1.1**	**J**	2.0	0.56	ug/L			04/20/18 14:09	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/20/18 14:09	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 14:09	1
2-Hexanone	ND		10	1.2	ug/L			04/20/18 14:09	1
Methylene Chloride	ND		1.0	0.53	ug/L			04/20/18 14:09	1
4-Methyl-2-pentanone	ND		10	0.71	ug/L			04/20/18 14:09	1
Styrene	ND		1.0	0.23	ug/L			04/20/18 14:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			04/20/18 14:09	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/20/18 14:09	1
Toluene	ND		1.0	0.23	ug/L			04/20/18 14:09	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			04/20/18 14:09	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 14:09	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			04/20/18 14:09	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 14:09	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 14:09	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*		*69 - 120*		*04/20/18 14:09*	*1*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/20/18 14:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 138*		*04/20/18 14:09*	*1*
Toluene-d8 (Surr)	*96*		*73 - 120*		*04/20/18 14:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.18	0.039	ug/L		04/11/18 08:29	04/12/18 15:52	1
Acenaphthylene	ND		0.18	0.018	ug/L		04/11/18 08:29	04/12/18 15:52	1
Anthracene	ND		0.18	0.028	ug/L		04/11/18 08:29	04/12/18 15:52	1
Benzo[a]anthracene	ND		0.18	0.053	ug/L		04/11/18 08:29	04/12/18 15:52	1
Benzo[a]pyrene	ND		0.18	0.027	ug/L		04/11/18 08:29	04/12/18 15:52	1
Benzo[b]fluoranthene	ND		0.18	0.053	ug/L		04/11/18 08:29	04/12/18 15:52	1
Benzo[g,h,i]perylene	ND		0.18	0.045	ug/L		04/11/18 08:29	04/12/18 15:52	1
Benzo[k]fluoranthene	ND		0.18	0.043	ug/L		04/11/18 08:29	04/12/18 15:52	1

Client Sample ID: SW-041018-AG-018

Date Collected: 04/10/18 08:20
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93874-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		0.89	0.033	ug/L		04/11/18 08:29	04/12/18 15:52	1
Bis(2-chloroethyl)ether	ND		0.89	0.17	ug/L		04/11/18 08:29	04/12/18 15:52	1
Bis(2-ethylhexyl) phthalate	ND		4.5	1.4	ug/L		04/11/18 08:29	04/12/18 15:52	1
4-Bromophenyl phenyl ether	ND		1.8	0.31	ug/L		04/11/18 08:29	04/12/18 15:52	1
Butylbenzylphthalate	ND		1.8	0.19	ug/L		04/11/18 08:29	04/12/18 15:52	1
Carbazole	ND		0.89	0.094	ug/L		04/11/18 08:29	04/12/18 15:52	1
4-Chloroaniline	ND		1.8	0.13	ug/L		04/11/18 08:29	04/12/18 15:52	1
4-Chloro-3-methylphenol	ND		1.8	0.25	ug/L		04/11/18 08:29	04/12/18 15:52	1
2-Chloronaphthalene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 15:52	1
2-Chlorophenol	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 15:52	1
4-Chlorophenyl phenyl ether	ND		1.8	0.26	ug/L		04/11/18 08:29	04/12/18 15:52	1
Chrysene	ND		0.18	0.031	ug/L		04/11/18 08:29	04/12/18 15:52	1
Dibenz(a,h)anthracene	ND		0.18	0.036	ug/L		04/11/18 08:29	04/12/18 15:52	1
Dibenzofuran	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 15:52	1
1,2-Dichlorobenzene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 15:52	1
1,3-Dichlorobenzene	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 15:52	1
1,4-Dichlorobenzene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 15:52	1
3,3'-Dichlorobenzidine	ND		4.5	0.32	ug/L		04/11/18 08:29	04/12/18 15:52	1
2,4-Dichlorophenol	ND		1.8	0.26	ug/L		04/11/18 08:29	04/12/18 15:52	1
Diethyl phthalate	**0.92**	**J B**	1.8	0.11	ug/L		04/11/18 08:29	04/12/18 15:52	1
2,4-Dimethylphenol	ND		1.8	0.28	ug/L		04/11/18 08:29	04/12/18 15:52	1
Dimethyl phthalate	ND		1.8	0.090	ug/L		04/11/18 08:29	04/12/18 15:52	1
Di-n-butyl phthalate	ND		4.5	0.36	ug/L		04/11/18 08:29	04/12/18 15:52	1
4,6-Dinitro-2-methylphenol	ND		4.5	0.47	ug/L		04/11/18 08:29	04/12/18 15:52	1
2,4-Dinitrophenol	ND		36	5.5	ug/L		04/11/18 08:29	04/12/18 15:52	1
2,4-Dinitrotoluene	ND		4.5	0.23	ug/L		04/11/18 08:29	04/12/18 15:52	1
2,6-Dinitrotoluene	ND		4.5	0.21	ug/L		04/11/18 08:29	04/12/18 15:52	1
Di-n-octyl phthalate	ND		1.8	0.33	ug/L		04/11/18 08:29	04/12/18 15:52	1
Fluoranthene	ND		0.18	0.024	ug/L		04/11/18 08:29	04/12/18 15:52	1
Fluorene	ND		0.18	0.030	ug/L		04/11/18 08:29	04/12/18 15:52	1
Hexachlorobenzene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 15:52	1
Hexachlorobutadiene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 15:52	1
Hexachlorocyclopentadiene	ND		8.9	2.2	ug/L		04/11/18 08:29	04/12/18 15:52	1
Hexachloroethane	ND		0.89	0.20	ug/L		04/11/18 08:29	04/12/18 15:52	1
Indeno[1,2,3-cd]pyrene	ND		0.18	0.043	ug/L		04/11/18 08:29	04/12/18 15:52	1
Isophorone	ND		0.89	0.038	ug/L		04/11/18 08:29	04/12/18 15:52	1
2-Methylnaphthalene	ND		0.18	0.033	ug/L		04/11/18 08:29	04/12/18 15:52	1
2-Methylphenol	ND		0.89	0.17	ug/L		04/11/18 08:29	04/12/18 15:52	1
3 & 4 Methylphenol	ND		1.8	0.30	ug/L		04/11/18 08:29	04/12/18 15:52	1
Naphthalene	ND		0.18	0.038	ug/L		04/11/18 08:29	04/12/18 15:52	1
2-Nitroaniline	ND		1.8	0.28	ug/L		04/11/18 08:29	04/12/18 15:52	1
3-Nitroaniline	ND		1.8	0.24	ug/L		04/11/18 08:29	04/12/18 15:52	1
4-Nitroaniline	ND		1.8	0.22	ug/L		04/11/18 08:29	04/12/18 15:52	1
Nitrobenzene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 15:52	1
2-Nitrophenol	ND		1.8	0.18	ug/L		04/11/18 08:29	04/12/18 15:52	1
4-Nitrophenol	ND		4.5	0.52	ug/L		04/11/18 08:29	04/12/18 15:52	1
N-Nitrosodi-n-propylamine	ND		0.89	0.14	ug/L		04/11/18 08:29	04/12/18 15:52	1
N-Nitrosodiphenylamine	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 15:52	1
2,2'-oxybis[1-chloropropane]	ND		0.89	0.16	ug/L		04/11/18 08:29	04/12/18 15:52	1

Client Sample ID: SW-041018-AG-018

Lab Sample ID: 240-93874-2

Date Collected: 04/10/18 08:20

Matrix: Water

Date Received: 04/10/18 13:13

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		36	4.9	ug/L		04/11/18 08:29	04/12/18 15:52	1
Phenanthrene	ND		0.18	0.028	ug/L		04/11/18 08:29	04/12/18 15:52	1
Phenol	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 15:52	1
Pyrene	ND		0.18	0.025	ug/L		04/11/18 08:29	04/12/18 15:52	1
1,2,4-Trichlorobenzene	ND		0.89	0.14	ug/L		04/11/18 08:29	04/12/18 15:52	1
2,4,5-Trichlorophenol	ND		4.5	0.33	ug/L		04/11/18 08:29	04/12/18 15:52	1
2,4,6-Trichlorophenol	ND		4.5	0.23	ug/L		04/11/18 08:29	04/12/18 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*32 - 120*	*04/11/18 08:29*	*04/12/18 15:52*	*1*
2-Fluorophenol (Surr)	*60*		*17 - 120*	*04/11/18 08:29*	*04/12/18 15:52*	*1*
Nitrobenzene-d5 (Surr)	*69*		*35 - 120*	*04/11/18 08:29*	*04/12/18 15:52*	*1*
Phenol-d5 (Surr)	*50*		*15 - 120*	*04/11/18 08:29*	*04/12/18 15:52*	*1*
Terphenyl-d14 (Surr)	*89*		*28 - 128*	*04/11/18 08:29*	*04/12/18 15:52*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*33 - 120*	*04/11/18 08:29*	*04/12/18 15:52*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Client Sample ID: FB-041018-AG-019

Lab Sample ID: 240-93874-4

Date Collected: 04/10/18 08:45
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.8	ug/L			04/20/18 14:32	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 14:32	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/20/18 14:32	1
Bromoform	ND		1.0	0.43	ug/L			04/20/18 14:32	1
Bromomethane	ND		1.0	0.42	ug/L			04/20/18 14:32	1
2-Butanone	ND		10	1.0	ug/L			04/20/18 14:32	1
Carbon disulfide	ND		1.0	0.34	ug/L			04/20/18 14:32	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			04/20/18 14:32	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 14:32	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 14:32	1
Chloroform	ND		1.0	0.31	ug/L			04/20/18 14:32	1
Chloromethane	ND		1.0	0.43	ug/L			04/20/18 14:32	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			04/20/18 14:32	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/20/18 14:32	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/20/18 14:32	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 14:32	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			04/20/18 14:32	1
1,2-Dichloroethene, Total	ND		2.0	0.56	ug/L			04/20/18 14:32	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/20/18 14:32	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 14:32	1
2-Hexanone	ND		10	1.2	ug/L			04/20/18 14:32	1
Methylene Chloride	ND		1.0	0.53	ug/L			04/20/18 14:32	1
4-Methyl-2-pentanone	ND		10	0.71	ug/L			04/20/18 14:32	1
Styrene	ND		1.0	0.23	ug/L			04/20/18 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			04/20/18 14:32	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/20/18 14:32	1
Toluene	ND		1.0	0.23	ug/L			04/20/18 14:32	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			04/20/18 14:32	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 14:32	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			04/20/18 14:32	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 14:32	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 14:32	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*69 - 120*		*04/20/18 14:32*	*1*
Dibromofluoromethane (Surr)	*100*		*69 - 124*		*04/20/18 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/20/18 14:32*	*1*
Toluene-d8 (Surr)	*103*		*73 - 120*		*04/20/18 14:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.18	0.039	ug/L		04/11/18 08:29	04/12/18 16:17	1
Acenaphthylene	ND		0.18	0.018	ug/L		04/11/18 08:29	04/12/18 16:17	1
Anthracene	ND		0.18	0.028	ug/L		04/11/18 08:29	04/12/18 16:17	1
Benzo[a]anthracene	ND		0.18	0.053	ug/L		04/11/18 08:29	04/12/18 16:17	1
Benzo[a]pyrene	ND		0.18	0.027	ug/L		04/11/18 08:29	04/12/18 16:17	1
Benzo[b]fluoranthene	ND		0.18	0.053	ug/L		04/11/18 08:29	04/12/18 16:17	1
Benzo[g,h,i]perylene	ND		0.18	0.045	ug/L		04/11/18 08:29	04/12/18 16:17	1
Benzo[k]fluoranthene	ND		0.18	0.043	ug/L		04/11/18 08:29	04/12/18 16:17	1

Client Sample ID: FB-041018-AG-019

Lab Sample ID: 240-93874-4

Date Collected: 04/10/18 08:45

Matrix: Water

Date Received: 04/10/18 13:13

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		0.89	0.033	ug/L		04/11/18 08:29	04/12/18 16:17	1
Bis(2-chloroethyl)ether	ND		0.89	0.17	ug/L		04/11/18 08:29	04/12/18 16:17	1
Bis(2-ethylhexyl) phthalate	ND		4.5	1.4	ug/L		04/11/18 08:29	04/12/18 16:17	1
4-Bromophenyl phenyl ether	ND		1.8	0.31	ug/L		04/11/18 08:29	04/12/18 16:17	1
Butylbenzylphthalate	ND		1.8	0.19	ug/L		04/11/18 08:29	04/12/18 16:17	1
Carbazole	ND		0.89	0.094	ug/L		04/11/18 08:29	04/12/18 16:17	1
4-Chloroaniline	ND		1.8	0.13	ug/L		04/11/18 08:29	04/12/18 16:17	1
4-Chloro-3-methylphenol	ND		1.8	0.25	ug/L		04/11/18 08:29	04/12/18 16:17	1
2-Chloronaphthalene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 16:17	1
2-Chlorophenol	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 16:17	1
4-Chlorophenyl phenyl ether	ND		1.8	0.26	ug/L		04/11/18 08:29	04/12/18 16:17	1
Chrysene	ND		0.18	0.031	ug/L		04/11/18 08:29	04/12/18 16:17	1
Dibenz(a,h)anthracene	ND		0.18	0.036	ug/L		04/11/18 08:29	04/12/18 16:17	1
Dibenzofuran	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 16:17	1
1,2-Dichlorobenzene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 16:17	1
1,3-Dichlorobenzene	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 16:17	1
1,4-Dichlorobenzene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 16:17	1
3,3'-Dichlorobenzidine	ND		4.5	0.32	ug/L		04/11/18 08:29	04/12/18 16:17	1
2,4-Dichlorophenol	ND		1.8	0.26	ug/L		04/11/18 08:29	04/12/18 16:17	1
Diethyl phthalate	**1.0**	**J B**	1.8	0.11	ug/L		04/11/18 08:29	04/12/18 16:17	1
2,4-Dimethylphenol	ND		1.8	0.28	ug/L		04/11/18 08:29	04/12/18 16:17	1
Dimethyl phthalate	ND		1.8	0.090	ug/L		04/11/18 08:29	04/12/18 16:17	1
Di-n-butyl phthalate	ND		4.5	0.36	ug/L		04/11/18 08:29	04/12/18 16:17	1
4,6-Dinitro-2-methylphenol	ND		4.5	0.47	ug/L		04/11/18 08:29	04/12/18 16:17	1
2,4-Dinitrophenol	ND		36	5.5	ug/L		04/11/18 08:29	04/12/18 16:17	1
2,4-Dinitrotoluene	ND		4.5	0.23	ug/L		04/11/18 08:29	04/12/18 16:17	1
2,6-Dinitrotoluene	ND		4.5	0.21	ug/L		04/11/18 08:29	04/12/18 16:17	1
Di-n-octyl phthalate	ND		1.8	0.33	ug/L		04/11/18 08:29	04/12/18 16:17	1
Fluoranthene	ND		0.18	0.024	ug/L		04/11/18 08:29	04/12/18 16:17	1
Fluorene	ND		0.18	0.030	ug/L		04/11/18 08:29	04/12/18 16:17	1
Hexachlorobenzene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 16:17	1
Hexachlorobutadiene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 16:17	1
Hexachlorocyclopentadiene	ND		8.9	2.2	ug/L		04/11/18 08:29	04/12/18 16:17	1
Hexachloroethane	ND		0.89	0.20	ug/L		04/11/18 08:29	04/12/18 16:17	1
Indeno[1,2,3-cd]pyrene	ND		0.18	0.043	ug/L		04/11/18 08:29	04/12/18 16:17	1
Isophorone	ND		0.89	0.038	ug/L		04/11/18 08:29	04/12/18 16:17	1
2-Methylnaphthalene	ND		0.18	0.033	ug/L		04/11/18 08:29	04/12/18 16:17	1
2-Methylphenol	ND		0.89	0.17	ug/L		04/11/18 08:29	04/12/18 16:17	1
3 & 4 Methylphenol	ND		1.8	0.30	ug/L		04/11/18 08:29	04/12/18 16:17	1
Naphthalene	ND		0.18	0.038	ug/L		04/11/18 08:29	04/12/18 16:17	1
2-Nitroaniline	ND		1.8	0.28	ug/L		04/11/18 08:29	04/12/18 16:17	1
3-Nitroaniline	ND		1.8	0.24	ug/L		04/11/18 08:29	04/12/18 16:17	1
4-Nitroaniline	ND		1.8	0.22	ug/L		04/11/18 08:29	04/12/18 16:17	1
Nitrobenzene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 16:17	1
2-Nitrophenol	ND		1.8	0.18	ug/L		04/11/18 08:29	04/12/18 16:17	1
4-Nitrophenol	ND		4.5	0.52	ug/L		04/11/18 08:29	04/12/18 16:17	1
N-Nitrosodi-n-propylamine	ND		0.89	0.14	ug/L		04/11/18 08:29	04/12/18 16:17	1
N-Nitrosodiphenylamine	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 16:17	1
2,2'-oxybis[1-chloropropane]	ND		0.89	0.16	ug/L		04/11/18 08:29	04/12/18 16:17	1

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Client Sample ID: FB-041018-AG-019

Lab Sample ID: 240-93874-4

Date Collected: 04/10/18 08:45

Matrix: Water

Date Received: 04/10/18 13:13

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		36	4.9	ug/L		04/11/18 08:29	04/12/18 16:17	1
Phenanthrene	ND		0.18	0.028	ug/L		04/11/18 08:29	04/12/18 16:17	1
Phenol	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 16:17	1
Pyrene	ND		0.18	0.025	ug/L		04/11/18 08:29	04/12/18 16:17	1
1,2,4-Trichlorobenzene	ND		0.89	0.14	ug/L		04/11/18 08:29	04/12/18 16:17	1
2,4,5-Trichlorophenol	ND		4.5	0.33	ug/L		04/11/18 08:29	04/12/18 16:17	1
2,4,6-Trichlorophenol	ND		4.5	0.23	ug/L		04/11/18 08:29	04/12/18 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*32 - 120*	*04/11/18 08:29*	*04/12/18 16:17*	*1*
2-Fluorophenol (Surr)	*56*		*17 - 120*	*04/11/18 08:29*	*04/12/18 16:17*	*1*
Nitrobenzene-d5 (Surr)	*69*		*35 - 120*	*04/11/18 08:29*	*04/12/18 16:17*	*1*
Phenol-d5 (Surr)	*58*		*15 - 120*	*04/11/18 08:29*	*04/12/18 16:17*	*1*
Terphenyl-d14 (Surr)	*90*		*28 - 128*	*04/11/18 08:29*	*04/12/18 16:17*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*33 - 120*	*04/11/18 08:29*	*04/12/18 16:17*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-93874-5

Date Collected: 04/10/18 00:00
Matrix: Water
Date Received: 04/10/18 13:13

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.8	ug/L			04/20/18 14:55	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 14:55	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/20/18 14:55	1
Bromoform	ND		1.0	0.43	ug/L			04/20/18 14:55	1
Bromomethane	ND		1.0	0.42	ug/L			04/20/18 14:55	1
2-Butanone	ND		10	1.0	ug/L			04/20/18 14:55	1
Carbon disulfide	ND		1.0	0.34	ug/L			04/20/18 14:55	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			04/20/18 14:55	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 14:55	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 14:55	1
Chloroform	ND		1.0	0.31	ug/L			04/20/18 14:55	1
Chloromethane	ND		1.0	0.43	ug/L			04/20/18 14:55	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			04/20/18 14:55	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/20/18 14:55	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/20/18 14:55	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 14:55	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			04/20/18 14:55	1
1,2-Dichloroethene, Total	ND		2.0	0.56	ug/L			04/20/18 14:55	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/20/18 14:55	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 14:55	1
2-Hexanone	ND		10	1.2	ug/L			04/20/18 14:55	1
Methylene Chloride	ND		1.0	0.53	ug/L			04/20/18 14:55	1
4-Methyl-2-pentanone	ND		10	0.71	ug/L			04/20/18 14:55	1
Styrene	ND		1.0	0.23	ug/L			04/20/18 14:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			04/20/18 14:55	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/20/18 14:55	1
Toluene	ND		1.0	0.23	ug/L			04/20/18 14:55	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			04/20/18 14:55	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 14:55	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			04/20/18 14:55	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 14:55	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 14:55	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*69 - 120*		*04/20/18 14:55*	*1*
Dibromofluoromethane (Surr)	*103*		*69 - 124*		*04/20/18 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 138*		*04/20/18 14:55*	*1*
Toluene-d8 (Surr)	*105*		*73 - 120*		*04/20/18 14:55*	*1*

Surrogate Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(69-120)	(69-124)	(61-138)	(73-120)
240-93874-1	SW-041018-AG-017	71	98	87	103
240-93874-1 MS	SW-041018-AG-017	90	111	101	119
240-93874-1 MSD	SW-041018-AG-017	78	92	86	99
240-93874-2	SW-041018-AG-018	69	92	87	96
240-93874-4	FB-041018-AG-019	75	100	93	103
240-93874-5	TRIP BLANK	75	103	93	105
LCS 240-323346/4	Lab Control Sample	81	103	91	107
MB 240-323346/6	Method Blank	82	109	95	111

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-120)	(17-120)	(35-120)	(15-120)	(28-128)	(33-120)
240-93874-1	SW-041018-AG-017	68	52	68	47	88	68
240-93874-1 MS	SW-041018-AG-017	74	59	76	59	84	84
240-93874-1 MSD	SW-041018-AG-017	77	63	78	56	83	90
240-93874-2	SW-041018-AG-018	73	60	69	50	89	69
240-93874-4	FB-041018-AG-019	73	56	69	58	90	68
LCS 240-322049/8-A	Lab Control Sample	81	66	81	60	89	84
MB 240-322049/7-A	Method Blank	69	50	62	42	82	61

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-323346/6
Matrix: Water
Analysis Batch: 323346

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.8	ug/L			04/20/18 10:21	1
Benzene	ND		1.0	0.28	ug/L			04/20/18 10:21	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/20/18 10:21	1
Bromoform	ND		1.0	0.43	ug/L			04/20/18 10:21	1
Bromomethane	ND		1.0	0.42	ug/L			04/20/18 10:21	1
2-Butanone	ND		10	1.0	ug/L			04/20/18 10:21	1
Carbon disulfide	ND		1.0	0.34	ug/L			04/20/18 10:21	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			04/20/18 10:21	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/20/18 10:21	1
Chloroethane	ND		1.0	0.41	ug/L			04/20/18 10:21	1
Chloroform	ND		1.0	0.31	ug/L			04/20/18 10:21	1
Chloromethane	ND		1.0	0.43	ug/L			04/20/18 10:21	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			04/20/18 10:21	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/20/18 10:21	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/20/18 10:21	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/20/18 10:21	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			04/20/18 10:21	1
1,2-Dichloroethene, Total	ND		2.0	0.56	ug/L			04/20/18 10:21	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/20/18 10:21	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/20/18 10:21	1
2-Hexanone	ND		10	1.2	ug/L			04/20/18 10:21	1
Methylene Chloride	ND		1.0	0.53	ug/L			04/20/18 10:21	1
4-Methyl-2-pentanone	ND		10	0.71	ug/L			04/20/18 10:21	1
Styrene	ND		1.0	0.23	ug/L			04/20/18 10:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			04/20/18 10:21	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/20/18 10:21	1
Toluene	ND		1.0	0.23	ug/L			04/20/18 10:21	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			04/20/18 10:21	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/20/18 10:21	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			04/20/18 10:21	1
Trichloroethene	ND		1.0	0.33	ug/L			04/20/18 10:21	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/20/18 10:21	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/20/18 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*69 - 120*		*04/20/18 10:21*	*1*
Dibromofluoromethane (Surr)	*109*		*69 - 124*		*04/20/18 10:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 138*		*04/20/18 10:21*	*1*
Toluene-d8 (Surr)	*111*		*73 - 120*		*04/20/18 10:21*	*1*

Lab Sample ID: LCS 240-323346/4
Matrix: Water
Analysis Batch: 323346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	14.3		ug/L		72	35 - 131
Benzene	10.0	10.4		ug/L		104	79 - 120
Bromodichloromethane	10.0	10.2		ug/L		102	79 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-323346/4
Matrix: Water
Analysis Batch: 323346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	10.0	10.3		ug/L		103	55 - 145
Bromomethane	10.0	12.9		ug/L		129	17 - 158
2-Butanone	20.0	18.8		ug/L		94	43 - 149
Carbon disulfide	10.0	8.51		ug/L		85	49 - 141
Carbon tetrachloride	10.0	9.01		ug/L		90	55 - 171
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Chloroethane	10.0	12.7		ug/L		127	10 - 149
Chloroform	10.0	10.7		ug/L		107	80 - 120
Chloromethane	10.0	11.6		ug/L		116	59 - 124
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	75 - 120
Dibromochloromethane	10.0	12.3		ug/L		123	64 - 129
1,1-Dichloroethane	10.0	10.4		ug/L		104	74 - 120
1,2-Dichloroethane	10.0	10.7		ug/L		107	68 - 133
1,1-Dichloroethene	10.0	8.23		ug/L		82	65 - 127
1,2-Dichloroethene, Total	20.0	21.3		ug/L		107	76 - 121
1,2-Dichloropropane	10.0	10.8		ug/L		108	78 - 127
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
2-Hexanone	20.0	18.9		ug/L		95	28 - 169
Methylene Chloride	10.0	10.2		ug/L		102	64 - 140
4-Methyl-2-pentanone	20.0	19.4		ug/L		97	53 - 144
Styrene	10.0	9.30		ug/L		93	80 - 121
1,1,2,2-Tetrachloroethane	10.0	11.7		ug/L		117	58 - 122
Tetrachloroethene	10.0	11.1		ug/L		111	80 - 122
Toluene	10.0	11.1		ug/L		111	78 - 120
trans-1,3-Dichloropropene	10.0	11.1		ug/L		111	67 - 120
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	64 - 147
1,1,2-Trichloroethane	10.0	11.7		ug/L		117	76 - 121
Trichloroethene	10.0	10.7		ug/L		107	76 - 124
Vinyl chloride	10.0	10.9		ug/L		109	65 - 124
Xylenes, Total	20.0	19.4		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*69 - 120*
Dibromofluoromethane (Surr)	*103*		*69 - 124*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 138*
Toluene-d8 (Surr)	*107*		*73 - 120*

Lab Sample ID: 240-93874-1 MS
Matrix: Water
Analysis Batch: 323346

Client Sample ID: SW-041018-AG-017
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		20.0	12.1		ug/L		61	19 - 133
Benzene	ND	F2	10.0	10.9		ug/L		109	69 - 127
Bromodichloromethane	ND	F2	10.0	10.9		ug/L		109	75 - 128
Bromoform	ND		10.0	9.17		ug/L		92	61 - 135
Bromomethane	ND		10.0	14.6		ug/L		146	10 - 148
2-Butanone	ND		20.0	13.3		ug/L		67	34 - 153

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-93874-1 MS — **Client Sample ID: SW-041018-AG-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	ND	F2	10.0	10.6		ug/L		106	46 - 143
Carbon tetrachloride	ND		10.0	9.24		ug/L		92	53 - 175
Chlorobenzene	ND	F2	10.0	11.3		ug/L		113	76 - 120
Chloroethane	ND	F1	10.0	14.2	F1	ug/L		142	10 - 141
Chloroform	ND	F2	10.0	11.8		ug/L		118	74 - 125
Chloromethane	ND	F1	10.0	12.8	F1	ug/L		128	34 - 127
cis-1,3-Dichloropropene	ND	F2	10.0	10.8		ug/L		108	68 - 120
Dibromochloromethane	ND		10.0	11.6		ug/L		116	62 - 131
1,1-Dichloroethane	ND	F2	10.0	11.3		ug/L		113	69 - 122
1,2-Dichloroethane	ND	F2	10.0	10.8		ug/L		108	64 - 138
1,1-Dichloroethene	ND	F2	10.0	10.1		ug/L		101	62 - 127
1,2-Dichloroethene, Total	0.99	J F2	20.0	23.9		ug/L		115	68 - 129
1,2-Dichloropropane	ND	F2	10.0	11.6		ug/L		116	72 - 131
Ethylbenzene	ND	F2	10.0	11.0		ug/L		110	72 - 121
2-Hexanone	ND		20.0	14.7		ug/L		74	21 - 184
Methylene Chloride	ND	F2	10.0	10.8		ug/L		108	52 - 137
4-Methyl-2-pentanone	ND		20.0	15.3		ug/L		77	53 - 147
Styrene	ND	F2	10.0	9.90		ug/L		99	74 - 125
1,1,2,2-Tetrachloroethane	ND		10.0	9.69		ug/L		97	51 - 123
Tetrachloroethene	ND	F2	10.0	11.5		ug/L		115	69 - 126
Toluene	ND	F2	10.0	12.0		ug/L		120	69 - 125
trans-1,3-Dichloropropene	ND		10.0	10.6		ug/L		106	59 - 120
1,1,1-Trichloroethane	ND	F2	10.0	11.6		ug/L		116	57 - 156
1,1,2-Trichloroethane	ND	F2	10.0	11.8		ug/L		118	68 - 127
Trichloroethene	ND	F2	10.0	11.6		ug/L		116	68 - 129
Vinyl chloride	ND	F2 F1	10.0	12.7	F1	ug/L		127	55 - 123
Xylenes, Total	ND	F2	20.0	21.2		ug/L		106	71 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*69 - 120*
Dibromofluoromethane (Surr)	*111*		*69 - 124*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 138*
Toluene-d8 (Surr)	*119*		*73 - 120*

Lab Sample ID: 240-93874-1 MSD — **Client Sample ID: SW-041018-AG-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		20.0	11.3		ug/L		57	19 - 133	7	35
Benzene	ND	F2	10.0	9.32	F2	ug/L		93	69 - 127	16	10
Bromodichloromethane	ND	F2	10.0	9.16	F2	ug/L		92	75 - 128	18	13
Bromoform	ND		10.0	8.75		ug/L		87	61 - 135	5	13
Bromomethane	ND		10.0	11.5		ug/L		115	10 - 148	24	35
2-Butanone	ND		20.0	16.1		ug/L		80	34 - 153	19	23
Carbon disulfide	ND	F2	10.0	8.43	F2	ug/L		84	46 - 143	23	18
Carbon tetrachloride	ND		10.0	8.41		ug/L		84	53 - 175	9	17
Chlorobenzene	ND	F2	10.0	9.29	F2	ug/L		93	76 - 120	19	12

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-93874-1 MSD — **Client Sample ID: SW-041018-AG-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	ND	F1	10.0	12.4		ug/L		124	10 - 141	14	35
Chloroform	ND	F2	10.0	9.74	F2	ug/L		97	74 - 125	19	11
Chloromethane	ND	F1	10.0	10.5		ug/L		105	34 - 127	20	25
cis-1,3-Dichloropropene	ND	F2	10.0	9.17	F2	ug/L		92	68 - 120	17	13
Dibromochloromethane	ND		10.0	10.3		ug/L		103	62 - 131	12	15
1,1-Dichloroethane	ND	F2	10.0	9.54	F2	ug/L		95	69 - 122	17	11
1,2-Dichloroethane	ND	F2	10.0	9.52	F2	ug/L		95	64 - 138	13	11
1,1-Dichloroethene	ND	F2	10.0	8.28	F2	ug/L		83	62 - 127	20	14
1,2-Dichloroethene, Total	0.99	J F2	20.0	20.3	F2	ug/L		97	68 - 129	16	10
1,2-Dichloropropane	ND	F2	10.0	9.44	F2	ug/L		94	72 - 131	21	12
Ethylbenzene	ND	F2	10.0	9.17	F2	ug/L		92	72 - 121	18	15
2-Hexanone	ND		20.0	16.7		ug/L		83	21 - 184	12	12
Methylene Chloride	ND	F2	10.0	8.46	F2	ug/L		85	52 - 137	24	12
4-Methyl-2-pentanone	ND		20.0	17.2		ug/L		86	53 - 147	12	16
Styrene	ND	F2	10.0	8.18	F2	ug/L		82	74 - 125	19	14
1,1,2,2-Tetrachloroethane	ND		10.0	9.56		ug/L		96	51 - 123	1	17
Tetrachloroethene	ND	F2	10.0	9.46	F2	ug/L		95	69 - 126	20	18
Toluene	ND	F2	10.0	9.87	F2	ug/L		99	69 - 125	20	14
trans-1,3-Dichloropropene	ND		10.0	9.27		ug/L		93	59 - 120	14	14
1,1,1-Trichloroethane	ND	F2	10.0	9.76	F2	ug/L		98	57 - 156	17	13
1,1,2-Trichloroethane	ND	F2	10.0	10.4	F2	ug/L		104	68 - 127	13	11
Trichloroethene	ND	F2	10.0	9.80	F2	ug/L		98	68 - 129	17	12
Vinyl chloride	ND	F2 F1	10.0	10.9	F2	ug/L		109	55 - 123	16	12
Xylenes, Total	ND	F2	20.0	17.1	F2	ug/L		86	71 - 122	21	14

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*69 - 120*
Dibromofluoromethane (Surr)	*92*		*69 - 124*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 138*
Toluene-d8 (Surr)	*99*		*73 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-322049/7-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 322270 — **Prep Batch: 322049**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		04/11/18 08:29	04/12/18 13:24	1
Acenaphthylene	ND		0.20	0.020	ug/L		04/11/18 08:29	04/12/18 13:24	1
Anthracene	ND		0.20	0.031	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[a]anthracene	ND		0.20	0.059	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[a]pyrene	ND		0.20	0.030	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[b]fluoranthene	ND		0.20	0.059	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[g,h,i]perylene	ND		0.20	0.050	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[k]fluoranthene	ND		0.20	0.048	ug/L		04/11/18 08:29	04/12/18 13:24	1
Bis(2-chloroethoxy)methane	ND		1.0	0.037	ug/L		04/11/18 08:29	04/12/18 13:24	1
Bis(2-chloroethyl)ether	ND		1.0	0.19	ug/L		04/11/18 08:29	04/12/18 13:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-322049/7-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		5.0	1.5	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Bromophenyl phenyl ether	ND		2.0	0.35	ug/L		04/11/18 08:29	04/12/18 13:24	1
Butylbenzylphthalate	ND		2.0	0.22	ug/L		04/11/18 08:29	04/12/18 13:24	1
Carbazole	ND		1.0	0.11	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Chloroaniline	ND		2.0	0.15	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Chloro-3-methylphenol	ND		2.0	0.28	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Chloronaphthalene	ND		1.0	0.12	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Chlorophenol	ND		1.0	0.13	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Chlorophenyl phenyl ether	ND		2.0	0.29	ug/L		04/11/18 08:29	04/12/18 13:24	1
Chrysene	ND		0.20	0.035	ug/L		04/11/18 08:29	04/12/18 13:24	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		04/11/18 08:29	04/12/18 13:24	1
Dibenzofuran	ND		1.0	0.14	ug/L		04/11/18 08:29	04/12/18 13:24	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L		04/11/18 08:29	04/12/18 13:24	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L		04/11/18 08:29	04/12/18 13:24	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L		04/11/18 08:29	04/12/18 13:24	1
3,3'-Dichlorobenzidine	ND		5.0	0.35	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4-Dichlorophenol	ND		2.0	0.29	ug/L		04/11/18 08:29	04/12/18 13:24	1
Diethyl phthalate	3.36		2.0	0.13	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4-Dimethylphenol	ND		2.0	0.31	ug/L		04/11/18 08:29	04/12/18 13:24	1
Dimethyl phthalate	ND		2.0	0.10	ug/L		04/11/18 08:29	04/12/18 13:24	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		04/11/18 08:29	04/12/18 13:24	1
4,6-Dinitro-2-methylphenol	ND		5.0	0.53	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4-Dinitrophenol	ND		40	6.1	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4-Dinitrotoluene	ND		5.0	0.26	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,6-Dinitrotoluene	ND		5.0	0.24	ug/L		04/11/18 08:29	04/12/18 13:24	1
Di-n-octyl phthalate	ND		2.0	0.37	ug/L		04/11/18 08:29	04/12/18 13:24	1
Fluoranthene	ND		0.20	0.027	ug/L		04/11/18 08:29	04/12/18 13:24	1
Fluorene	ND		0.20	0.034	ug/L		04/11/18 08:29	04/12/18 13:24	1
Hexachlorobenzene	ND		1.0	0.12	ug/L		04/11/18 08:29	04/12/18 13:24	1
Hexachlorobutadiene	ND		1.0	0.14	ug/L		04/11/18 08:29	04/12/18 13:24	1
Hexachlorocyclopentadiene	ND		10	2.5	ug/L		04/11/18 08:29	04/12/18 13:24	1
Hexachloroethane	ND		1.0	0.22	ug/L		04/11/18 08:29	04/12/18 13:24	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.048	ug/L		04/11/18 08:29	04/12/18 13:24	1
Isophorone	ND		1.0	0.042	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Methylnaphthalene	ND		0.20	0.037	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Methylphenol	ND		1.0	0.19	ug/L		04/11/18 08:29	04/12/18 13:24	1
3 & 4 Methylphenol	ND		2.0	0.34	ug/L		04/11/18 08:29	04/12/18 13:24	1
Naphthalene	ND		0.20	0.043	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Nitroaniline	ND		2.0	0.31	ug/L		04/11/18 08:29	04/12/18 13:24	1
3-Nitroaniline	ND		2.0	0.27	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Nitroaniline	ND		2.0	0.24	ug/L		04/11/18 08:29	04/12/18 13:24	1
Nitrobenzene	ND		1.0	0.12	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Nitrophenol	ND		2.0	0.21	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Nitrophenol	ND		5.0	0.59	ug/L		04/11/18 08:29	04/12/18 13:24	1
N-Nitrosodi-n-propylamine	ND		1.0	0.16	ug/L		04/11/18 08:29	04/12/18 13:24	1
N-Nitrosodiphenylamine	ND		1.0	0.11	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.18	ug/L		04/11/18 08:29	04/12/18 13:24	1
Pentachlorophenol	ND		40	5.5	ug/L		04/11/18 08:29	04/12/18 13:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-322049/7-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.20	0.031	ug/L		04/11/18 08:29	04/12/18 13:24	1
Phenol	ND		1.0	0.15	ug/L		04/11/18 08:29	04/12/18 13:24	1
Pyrene	ND		0.20	0.028	ug/L		04/11/18 08:29	04/12/18 13:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4,5-Trichlorophenol	ND		5.0	0.37	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4,6-Trichlorophenol	ND		5.0	0.26	ug/L		04/11/18 08:29	04/12/18 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*32 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
2-Fluorophenol (Surr)	*50*		*17 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
Nitrobenzene-d5 (Surr)	*62*		*35 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
Phenol-d5 (Surr)	*42*		*15 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
Terphenyl-d14 (Surr)	*82*		*28 - 128*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*33 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*

Lab Sample ID: LCS 240-322049/8-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	24.4		ug/L		76	59 - 120
Acenaphthylene	32.0	25.5		ug/L		80	59 - 120
Anthracene	32.0	26.5		ug/L		83	59 - 120
Benzo[a]anthracene	32.0	27.1		ug/L		85	60 - 120
Benzo[a]pyrene	32.0	27.3		ug/L		85	61 - 120
Benzo[b]fluoranthene	32.0	26.4		ug/L		82	62 - 120
Benzo[g,h,i]perylene	32.0	26.3		ug/L		82	61 - 120
Benzo[k]fluoranthene	32.0	27.5		ug/L		86	60 - 120
Bis(2-chloroethoxy)methane	32.0	25.2		ug/L		79	60 - 120
Bis(2-chloroethyl)ether	32.0	24.5		ug/L		76	52 - 120
Bis(2-ethylhexyl) phthalate	32.0	27.6		ug/L		86	59 - 120
4-Bromophenyl phenyl ether	32.0	25.8		ug/L		81	62 - 120
Butylbenzylphthalate	32.0	26.9		ug/L		84	53 - 120
Carbazole	32.0	26.8		ug/L		84	62 - 121
4-Chloroaniline	32.0	14.0		ug/L		44	10 - 142
4-Chloro-3-methylphenol	32.0	29.1		ug/L		91	63 - 120
2-Chloronaphthalene	32.0	25.2		ug/L		79	58 - 120
2-Chlorophenol	32.0	25.6		ug/L		80	61 - 120
4-Chlorophenyl phenyl ether	32.0	24.2		ug/L		76	62 - 120
Chrysene	32.0	26.0		ug/L		81	60 - 120
Dibenz(a,h)anthracene	32.0	26.8		ug/L		84	62 - 120
Dibenzofuran	32.0	24.9		ug/L		78	59 - 120
1,2-Dichlorobenzene	32.0	23.6		ug/L		74	52 - 120
1,3-Dichlorobenzene	32.0	22.6		ug/L		71	49 - 120
1,4-Dichlorobenzene	32.0	22.9		ug/L		71	50 - 120
3,3'-Dichlorobenzidine	64.0	54.5		ug/L		85	54 - 120
2,4-Dichlorophenol	32.0	26.4		ug/L		83	57 - 120
Diethyl phthalate	32.0	25.0		ug/L		78	53 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-322049/8-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	32.0	26.3		ug/L		82	49 - 120
Dimethyl phthalate	32.0	24.8		ug/L		78	51 - 120
Di-n-butyl phthalate	32.0	27.7		ug/L		87	58 - 120
4,6-Dinitro-2-methylphenol	64.0	46.7		ug/L		73	43 - 120
2,4-Dinitrophenol	64.0	36.0	J	ug/L		56	24 - 120
2,4-Dinitrotoluene	32.0	26.4		ug/L		82	67 - 120
2,6-Dinitrotoluene	32.0	26.1		ug/L		82	65 - 120
Di-n-octyl phthalate	32.0	27.0		ug/L		84	58 - 120
Fluoranthene	32.0	27.6		ug/L		86	62 - 120
Fluorene	32.0	24.0		ug/L		75	61 - 120
Hexachlorobenzene	32.0	26.0		ug/L		81	58 - 120
Hexachlorobutadiene	32.0	22.9		ug/L		72	48 - 120
Hexachlorocyclopentadiene	32.0	23.2		ug/L		72	30 - 120
Hexachloroethane	32.0	23.1		ug/L		72	44 - 120
Indeno[1,2,3-cd]pyrene	32.0	26.9		ug/L		84	62 - 120
Isophorone	32.0	25.4		ug/L		79	58 - 120
2-Methylnaphthalene	32.0	25.0		ug/L		78	58 - 120
2-Methylphenol	32.0	26.2		ug/L		82	55 - 120
3 & 4 Methylphenol	32.0	25.0		ug/L		78	50 - 120
Naphthalene	32.0	24.0		ug/L		75	56 - 120
2-Nitroaniline	32.0	26.2		ug/L		82	60 - 120
3-Nitroaniline	32.0	30.1		ug/L		94	21 - 199
4-Nitroaniline	32.0	32.0		ug/L		100	54 - 135
Nitrobenzene	32.0	25.1		ug/L		78	60 - 120
2-Nitrophenol	32.0	25.7		ug/L		80	63 - 120
4-Nitrophenol	64.0	36.4		ug/L		57	24 - 120
N-Nitrosodi-n-propylamine	32.0	25.3		ug/L		79	55 - 120
N-Nitrosodiphenylamine	32.0	26.2		ug/L		82	58 - 120
2,2'-oxybis[1-chloropropane]	32.0	25.2		ug/L		79	50 - 120
Pentachlorophenol	64.0	48.5		ug/L		76	30 - 120
Phenanthrene	32.0	25.6		ug/L		80	59 - 120
Phenol	32.0	19.1		ug/L		60	25 - 120
Pyrene	32.0	26.7		ug/L		84	59 - 120
1,2,4-Trichlorobenzene	32.0	23.6		ug/L		74	53 - 120
2,4,5-Trichlorophenol	32.0	27.5		ug/L		86	59 - 120
2,4,6-Trichlorophenol	32.0	27.8		ug/L		87	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*32 - 120*
2-Fluorophenol (Surr)	*66*		*17 - 120*
Nitrobenzene-d5 (Surr)	*81*		*35 - 120*
Phenol-d5 (Surr)	*60*		*15 - 120*
Terphenyl-d14 (Surr)	*89*		*28 - 128*
2,4,6-Tribromophenol (Surr)	*84*		*33 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-93874-1 MS
Matrix: Water
Analysis Batch: 322270

Client Sample ID: SW-041018-AG-017
Prep Type: Total/NA
Prep Batch: 322049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		28.6	19.9		ug/L		70	31 - 120
Acenaphthylene	ND		28.6	20.5		ug/L		72	27 - 120
Anthracene	ND		28.6	22.2		ug/L		78	33 - 120
Benzo[a]anthracene	ND		28.6	23.0		ug/L		80	31 - 120
Benzo[a]pyrene	ND		28.6	23.0		ug/L		80	22 - 124
Benzo[b]fluoranthene	ND		28.6	22.4		ug/L		78	25 - 124
Benzo[g,h,i]perylene	ND		28.6	22.1		ug/L		77	14 - 123
Benzo[k]fluoranthene	ND		28.6	22.7		ug/L		79	24 - 124
Bis(2-chloroethoxy)methane	ND		28.6	22.3		ug/L		78	48 - 120
Bis(2-chloroethyl)ether	ND		28.6	22.6		ug/L		79	45 - 120
Bis(2-ethylhexyl) phthalate	ND		28.6	23.2		ug/L		81	10 - 126
4-Bromophenyl phenyl ether	ND		28.6	21.7		ug/L		76	44 - 120
Butylbenzylphthalate	ND		28.6	23.3		ug/L		81	32 - 120
Carbazole	ND		28.6	23.0		ug/L		80	15 - 159
4-Chloroaniline	ND		28.6	10.2		ug/L		36	10 - 162
4-Chloro-3-methylphenol	ND		28.6	23.2		ug/L		81	39 - 120
2-Chloronaphthalene	ND		28.6	19.5		ug/L		68	40 - 120
2-Chlorophenol	ND		28.6	22.0		ug/L		77	52 - 120
4-Chlorophenyl phenyl ether	ND		28.6	20.1		ug/L		70	42 - 120
Chrysene	ND		28.6	22.6		ug/L		79	32 - 120
Dibenz(a,h)anthracene	ND		28.6	22.3		ug/L		78	16 - 124
Dibenzofuran	ND		28.6	20.4		ug/L		72	40 - 120
1,2-Dichlorobenzene	ND		28.6	17.6		ug/L		62	41 - 120
1,3-Dichlorobenzene	ND		28.6	16.8		ug/L		59	38 - 120
1,4-Dichlorobenzene	ND		28.6	16.8		ug/L		59	39 - 120
3,3'-Dichlorobenzidine	ND		57.1	42.8		ug/L		75	10 - 121
2,4-Dichlorophenol	ND		28.6	21.6		ug/L		76	43 - 120
Diethyl phthalate	1.4	J B	28.6	24.8		ug/L		82	29 - 120
2,4-Dimethylphenol	ND		28.6	21.8		ug/L		76	40 - 120
Dimethyl phthalate	ND		28.6	22.1		ug/L		77	32 - 120
Di-n-butyl phthalate	ND		28.6	23.8		ug/L		83	34 - 120
4,6-Dinitro-2-methylphenol	ND		57.1	40.2		ug/L		70	25 - 120
2,4-Dinitrophenol	ND		57.1	31.6	J	ug/L		55	10 - 120
2,4-Dinitrotoluene	ND		28.6	23.5		ug/L		82	54 - 120
2,6-Dinitrotoluene	ND		28.6	22.9		ug/L		80	55 - 120
Di-n-octyl phthalate	ND		28.6	22.5		ug/L		79	13 - 134
Fluoranthene	ND		28.6	23.3		ug/L		82	34 - 120
Fluorene	ND		28.6	20.5		ug/L		72	34 - 120
Hexachlorobenzene	ND		28.6	22.3		ug/L		78	42 - 120
Hexachlorobutadiene	ND		28.6	16.1		ug/L		56	29 - 120
Hexachlorocyclopentadiene	ND		28.6	16.3		ug/L		57	17 - 120
Hexachloroethane	ND		28.6	16.5		ug/L		58	16 - 120
Indeno[1,2,3-cd]pyrene	ND		28.6	22.3		ug/L		78	16 - 125
Isophorone	ND		28.6	22.2		ug/L		78	48 - 120
2-Methylnaphthalene	ND		28.6	19.3		ug/L		68	30 - 120
2-Methylphenol	ND		28.6	22.9		ug/L		80	47 - 120
3 & 4 Methylphenol	ND		28.6	21.9		ug/L		77	44 - 120
Naphthalene	ND		28.6	18.7		ug/L		65	19 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-93874-1 MS — **Client Sample ID: SW-041018-AG-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 322270 — **Prep Batch: 322049**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	ND		28.6	23.2		ug/L		81	45 - 120
3-Nitroaniline	ND		28.6	25.5		ug/L		89	10 - 177
4-Nitroaniline	ND		28.6	26.5		ug/L		93	12 - 131
Nitrobenzene	ND		28.6	21.3		ug/L		74	39 - 120
2-Nitrophenol	ND		28.6	22.1		ug/L		77	51 - 120
4-Nitrophenol	ND		57.1	33.4		ug/L		59	13 - 120
N-Nitrosodi-n-propylamine	ND		28.6	24.3		ug/L		85	47 - 120
N-Nitrosodiphenylamine	ND		28.6	22.2		ug/L		78	45 - 120
2,2'-oxybis[1-chloropropane]	ND		28.6	23.4		ug/L		82	41 - 120
Pentachlorophenol	ND		57.1	41.7		ug/L		73	29 - 120
Phenanthrene	ND		28.6	21.3		ug/L		75	33 - 120
Phenol	ND		28.6	16.6		ug/L		58	24 - 120
Pyrene	ND		28.6	22.6		ug/L		79	36 - 120
1,2,4-Trichlorobenzene	ND		28.6	17.4		ug/L		61	40 - 120
2,4,5-Trichlorophenol	ND		28.6	22.4		ug/L		78	49 - 120
2,4,6-Trichlorophenol	ND		28.6	22.9		ug/L		80	47 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*32 - 120*
2-Fluorophenol (Surr)	*59*		*17 - 120*
Nitrobenzene-d5 (Surr)	*76*		*35 - 120*
Phenol-d5 (Surr)	*59*		*15 - 120*
Terphenyl-d14 (Surr)	*84*		*28 - 128*
2,4,6-Tribromophenol (Surr)	*84*		*33 - 120*

Lab Sample ID: 240-93874-1 MSD — **Client Sample ID: SW-041018-AG-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 322270 — **Prep Batch: 322049**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		28.6	20.4		ug/L		71	31 - 120	2	35
Acenaphthylene	ND		28.6	21.2		ug/L		74	27 - 120	4	35
Anthracene	ND		28.6	22.0		ug/L		77	33 - 120	1	35
Benzo[a]anthracene	ND		28.6	22.6		ug/L		79	31 - 120	1	35
Benzo[a]pyrene	ND		28.6	22.3		ug/L		78	22 - 124	3	35
Benzo[b]fluoranthene	ND		28.6	22.5		ug/L		79	25 - 124	1	35
Benzo[g,h,i]perylene	ND		28.6	21.6		ug/L		76	14 - 123	2	35
Benzo[k]fluoranthene	ND		28.6	22.5		ug/L		79	24 - 124	1	35
Bis(2-chloroethoxy)methane	ND		28.6	23.1		ug/L		81	48 - 120	4	29
Bis(2-chloroethyl)ether	ND		28.6	22.8		ug/L		80	45 - 120	1	31
Bis(2-ethylhexyl) phthalate	ND		28.6	22.7		ug/L		79	10 - 126	3	35
4-Bromophenyl phenyl ether	ND		28.6	22.3		ug/L		78	44 - 120	3	32
Butylbenzylphthalate	ND		28.6	23.1		ug/L		81	32 - 120	0	35
Carbazole	ND		28.6	23.2		ug/L		81	15 - 159	1	33
4-Chloroaniline	ND		28.6	11.4		ug/L		40	10 - 162	11	35
4-Chloro-3-methylphenol	ND		28.6	23.6		ug/L		83	39 - 120	2	31
2-Chloronaphthalene	ND		28.6	20.1		ug/L		70	40 - 120	3	35
2-Chlorophenol	ND		28.6	22.3		ug/L		78	52 - 120	1	33

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-93874-1 MSD — **Client Sample ID: SW-041018-AG-017**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 322270 — **Prep Batch: 322049**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	ND		28.6	21.0		ug/L		74	42 - 120	5	33
Chrysene	ND		28.6	22.1		ug/L		77	32 - 120	2	35
Dibenz(a,h)anthracene	ND		28.6	22.0		ug/L		77	16 - 124	2	35
Dibenzofuran	ND		28.6	21.2		ug/L		74	40 - 120	4	35
1,2-Dichlorobenzene	ND		28.6	18.4		ug/L		64	41 - 120	4	24
1,3-Dichlorobenzene	ND		28.6	17.7		ug/L		62	38 - 120	6	26
1,4-Dichlorobenzene	ND		28.6	17.8		ug/L		62	39 - 120	6	26
3,3'-Dichlorobenzidine	ND		57.1	34.8		ug/L		61	10 - 121	21	35
2,4-Dichlorophenol	ND		28.6	22.9		ug/L		80	43 - 120	6	35
Diethyl phthalate	1.4	J B	28.6	25.9		ug/L		86	29 - 120	5	35
2,4-Dimethylphenol	ND		28.6	21.2		ug/L		74	40 - 120	3	29
Dimethyl phthalate	ND		28.6	22.8		ug/L		80	32 - 120	3	35
Di-n-butyl phthalate	ND		28.6	23.9		ug/L		84	34 - 120	0	35
4,6-Dinitro-2-methylphenol	ND		57.1	42.2		ug/L		74	25 - 120	5	29
2,4-Dinitrophenol	ND		57.1	34.9	J	ug/L		61	10 - 120	10	31
2,4-Dinitrotoluene	ND		28.6	24.2		ug/L		85	54 - 120	3	25
2,6-Dinitrotoluene	ND		28.6	23.8		ug/L		83	55 - 120	4	26
Di-n-octyl phthalate	ND		28.6	22.1		ug/L		77	13 - 134	2	35
Fluoranthene	ND		28.6	23.2		ug/L		81	34 - 120	0	35
Fluorene	ND		28.6	21.1		ug/L		74	34 - 120	3	35
Hexachlorobenzene	ND		28.6	22.9		ug/L		80	42 - 120	3	33
Hexachlorobutadiene	ND		28.6	16.9		ug/L		59	29 - 120	5	35
Hexachlorocyclopentadiene	ND		28.6	17.7		ug/L		62	17 - 120	9	33
Hexachloroethane	ND		28.6	17.3		ug/L		61	16 - 120	5	35
Indeno[1,2,3-cd]pyrene	ND		28.6	22.3		ug/L		78	16 - 125	0	35
Isophorone	ND		28.6	22.8		ug/L		80	48 - 120	2	28
2-Methylnaphthalene	ND		28.6	20.1		ug/L		70	30 - 120	4	35
2-Methylphenol	ND		28.6	23.6		ug/L		82	47 - 120	3	30
3 & 4 Methylphenol	ND		28.6	22.3		ug/L		78	44 - 120	2	27
Naphthalene	ND		28.6	19.4		ug/L		68	19 - 120	4	35
2-Nitroaniline	ND		28.6	24.2		ug/L		85	45 - 120	4	28
3-Nitroaniline	ND		28.6	26.1		ug/L		91	10 - 177	2	35
4-Nitroaniline	ND		28.6	27.7		ug/L		97	12 - 131	5	35
Nitrobenzene	ND		28.6	21.8		ug/L		76	39 - 120	2	30
2-Nitrophenol	ND		28.6	23.0		ug/L		80	51 - 120	4	29
4-Nitrophenol	ND		57.1	32.0		ug/L		56	13 - 120	4	30
N-Nitrosodi-n-propylamine	ND		28.6	25.2		ug/L		88	47 - 120	4	33
N-Nitrosodiphenylamine	ND		28.6	22.0		ug/L		77	45 - 120	1	26
2,2'-oxybis[1-chloropropane]	ND		28.6	23.5		ug/L		82	41 - 120	0	33
Pentachlorophenol	ND		57.1	42.8		ug/L		75	29 - 120	3	31
Phenanthrene	ND		28.6	21.4		ug/L		75	33 - 120	1	35
Phenol	ND		28.6	15.8		ug/L		55	24 - 120	5	35
Pyrene	ND		28.6	22.2		ug/L		78	36 - 120	2	35
1,2,4-Trichlorobenzene	ND		28.6	17.8		ug/L		62	40 - 120	2	26
2,4,5-Trichlorophenol	ND		28.6	23.6		ug/L		83	49 - 120	5	30
2,4,6-Trichlorophenol	ND		28.6	22.9		ug/L		80	47 - 120	0	35

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-93874-1 MSD
Matrix: Water
Analysis Batch: 322270

Client Sample ID: SW-041018-AG-017
Prep Type: Total/NA
Prep Batch: 322049

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	77		32 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	78		35 - 120
Phenol-d5 (Surr)	56		15 - 120
Terphenyl-d14 (Surr)	83		28 - 128
2,4,6-Tribromophenol (Surr)	90		33 - 120

QC Association Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

GC/MS VOA

Analysis Batch: 323346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93874-1	SW-041018-AG-017	Total/NA	Water	8260C	
240-93874-2	SW-041018-AG-018	Total/NA	Water	8260C	
240-93874-4	FB-041018-AG-019	Total/NA	Water	8260C	
240-93874-5	TRIP BLANK	Total/NA	Water	8260C	
MB 240-323346/6	Method Blank	Total/NA	Water	8260C	
LCS 240-323346/4	Lab Control Sample	Total/NA	Water	8260C	
240-93874-1 MS	SW-041018-AG-017	Total/NA	Water	8260C	
240-93874-1 MSD	SW-041018-AG-017	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 322049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93874-1	SW-041018-AG-017	Total/NA	Water	3510C	
240-93874-2	SW-041018-AG-018	Total/NA	Water	3510C	
240-93874-4	FB-041018-AG-019	Total/NA	Water	3510C	
MB 240-322049/7-A	Method Blank	Total/NA	Water	3510C	
LCS 240-322049/8-A	Lab Control Sample	Total/NA	Water	3510C	
240-93874-1 MS	SW-041018-AG-017	Total/NA	Water	3510C	
240-93874-1 MSD	SW-041018-AG-017	Total/NA	Water	3510C	

Analysis Batch: 322270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93874-1	SW-041018-AG-017	Total/NA	Water	8270D	322049
240-93874-2	SW-041018-AG-018	Total/NA	Water	8270D	322049
240-93874-4	FB-041018-AG-019	Total/NA	Water	8270D	322049
MB 240-322049/7-A	Method Blank	Total/NA	Water	8270D	322049
LCS 240-322049/8-A	Lab Control Sample	Total/NA	Water	8270D	322049
240-93874-1 MS	SW-041018-AG-017	Total/NA	Water	8270D	322049
240-93874-1 MSD	SW-041018-AG-017	Total/NA	Water	8270D	322049

Lab Chronicle

Client: Eagon & Associates, Inc.
Project/Site: Summit National - 2018 Annual SW

TestAmerica Job ID: 240-93874-1

Client Sample ID: SW-041018-AG-017 — Lab Sample ID: 240-93874-1

Date Collected: 04/10/18 08:20 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323346	04/20/18 13:01	LEE	TAL CAN
Total/NA	Prep	3510C			322049	04/11/18 08:29	BMB	TAL CAN
Total/NA	Analysis	8270D		1	322270	04/12/18 14:38	TMH	TAL CAN

Client Sample ID: SW-041018-AG-018 — Lab Sample ID: 240-93874-2

Date Collected: 04/10/18 08:20 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323346	04/20/18 14:09	LEE	TAL CAN
Total/NA	Prep	3510C			322049	04/11/18 08:29	BMB	TAL CAN
Total/NA	Analysis	8270D		1	322270	04/12/18 15:52	TMH	TAL CAN

Client Sample ID: FB-041018-AG-019 — Lab Sample ID: 240-93874-4

Date Collected: 04/10/18 08:45 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323346	04/20/18 14:32	LEE	TAL CAN
Total/NA	Prep	3510C			322049	04/11/18 08:29	BMB	TAL CAN
Total/NA	Analysis	8270D		1	322270	04/12/18 16:17	TMH	TAL CAN

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-93874-5

Date Collected: 04/10/18 00:00 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323346	04/20/18 14:55	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Eagon & Associates, Inc. TestAmerica Job ID: 240-93874-1
Project/Site: Summit National - 2018 Annual SW

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18 *
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18 *
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, Ohio 44720
Ph. (330) 497-9396 ; fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Mike Gibson	Site Contact: SNFT	Date: 4/10/18	COC No:
Eagon & Associates, Inc.	Sampler: ADG	Lab Contact: Patrick J. O'Meara	Carrier: HAND DELIVERED	1 of 1 COCs
100 Old Wilson Bridge Road, Suite 115	Analysis Turnaround Time			For Lab Use Only:
Worthington, Ohio 43085	☐ CALENDAR DAYS ☑ WORKING DAYS			Walk-in Client:
(614) 888-5760 Ph. / (614) 888-5760 Fax	TAT if different from Below _____			Lab Sampling:
a.graham@eagoninc.com / mgibson@eagoninc.com	☑ 2 weeks			
Project Name: Summit National - 2018 Annual SW	☐ 1 week			Job / SDG No.:
Site: Summit National Superfund Site	☐ 2 days			
P O # No PO required	☐ 1 day			Sampler: ADG

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260C - (MOD) Project TCL VOCs	8270D - (MOD) Project TCL SVOCs	Sample Specific Notes:
SW-041018-AG-017	4/10/18	0820	Grab	Water	5	N		X	X	
SW-041018-AG-017 MS	↓	↓	↓	↓	↓	N		X	X	
SW-041018-AG-017 MSD	↓	↓	↓	↓	↓	N		X	X	
SW-041018-AG-018	↓	↓	↓	↓	↓	N		X	X	
FB-041018-AG-019	↓	0845	↓	↓	↓	N		X	X	
TRIP BLANK	—	—	—	O	2	N		X		
								2	1	

240-93874 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Andrew Bardziowski Andrew Bardziowski	Eagon & Associates, Inc.	4/10/18 1313	Terry Burns	TA Can	4/10/18 1313
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.1, dated 02/20/2013

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 93874
Canton Facility

Client Eagon + Assoc Site Name _____ Cooler unpacked by: Terry Burns
Cooler Received on 4/10/18 Opened on 4/10/18
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other Multiple
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

☑ See Multiple Cooler Form

1. Cooler temperature upon receipt
   ~~IR GUN# IR-8 (CF +0.1 °C)~~ Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN #36 (CF +0.3°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   ~~IR GUN # 627 (CF -1.3°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity_____ Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC732776**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #3734501VB Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: TB

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____.

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login #: 93874

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Buffalo	8	3.6	3.7	ICE
TA No.		3.4	3.5	
DFW		3.8	3.9	
TA		3.2	3.3	

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: S&E DITCH SURFACE WATER

WELL DATA

Water-Level Date: (MM/DD/YY)

Water-Level Time:

Purge/Sample Method: GRAB
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

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

Is 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-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*	TOTAL VOL PURGED (Liters : Gallons) *circle one*	PUMP/TUBING:WELL VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (L : Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (L : Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
041018	0810		6.98	674	29	16.7	

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

Weather Conditions (at sample time): Wind Speed / Direction: 0 mph Air Temp: ~25°F Precipitation: Y or (N)

Comments (including purge/well volume calculations if required): Surface water samples collected by submerging sample bottles ~2" below surface near confluence of S&E ditches. Broke ice on surface to access water samples.

FIELD COMMENTS

SAMPLE I.D. #'s: SW-041018-AG-017
SW-041018-AG-017 MS
SW-041018-AG-017 MSD

SAMPLES COLLECTED: TCL VOCs, TCL SVOCs

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

Date	Name	Signature
4/10/18	Andrew D. Graham	

EAGON & ASSOCIATES, INC.

EA-200 0317

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: S&E DITCH SURFACE WATER-DUP

WELL DATA

Water-Level Date: (MM/DD/YY)

Water-Level Time:

Purge/Sample Method: GRAB
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

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

Is 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-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*	TOTAL VOL PURGED (Liters : Gallons) *circle one*	PUMP/TUBING:WELL VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (L : Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (L : Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
041018	0810		7.09	687	23	16.5	

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

Weather Conditions (at sample time): Wind Speed / Direction: 0 mph Air Temp: ~25°F Precipitation: Y or N

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

FIELD COMMENTS

Collected "Dup" Sample at the same time and manner as the original surface water samples.

SAMPLE I.D.#: SW-041018-AG-018

SAMPLES COLLECTED: TCL VOCs, TCL SVOCs

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

Date	Name	Signature
4/10/18	Andrew D. Graham	

EAGON & ASSOCIATES, INC.

EA-200 0317

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: SITE DITCH SURFACE WATER FIELD BLANK

WELL DATA

Water-Level Date: (MM/DD/YY)

Water-Level Time:

Purge/Sample Method: GRAB
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

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

Is 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-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*	TOTAL VOL PURGED (Liters : Gallons) *circle one*	PUMP/TUBING:WELL VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (L : Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (L : Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
041018	0814 5		7.03	4.43	9.1	0.27	

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

Weather Conditions (at sample time): Wind Speed / Direction: 0 mph Air Temp: ~25°F Precipitation: Y or N

Comments (including purge/well volume calculations if required): Field blank sample was collected by pouring lab-supplied deionized water directly into sample containers near well MW-113 near site ditch.

SAMPLE I.D. #: FB-041018-AG-019

SAMPLES COLLECTED: TCL VOCs, TCL SVOCs

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

4/10/18 Date

Andrew D. Graham Name

Signature

EAGON & ASSOCIATES, INC.

EA-200 0317

FIELD METER CALIBRATION RECORD

Project Name: *Summit National Superfund Site* Sampler(s): A-GRAHAM

pH Meter(s): Make/Model/Serial No: Oakton 300 / 180251

Buffer Brand/Expiration: pH 4 IE - 7/19/19 ; pH 7 IE - 11/9/19 ; pH 10 IE - 7/12/19

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)
4/9/18	1257	Calibrate	4.03	7.00	9.95	9.9
4/10/18	0755	Calibrate	4.01	7.04	10.09	10.1

Conductivity/Temp. Meter(s): Make/Model/Serial No: Oakton 300 / 180251

Cond. Solution Brand/Expiration: IE - 9/14/18 Cond. Solution Value (@ 25 °C): 1413

Date	Time	Calibrate/Check	Cond. Standard Result (µmhos/cm)	Temp. of Cond. Soln' (°C)	Notes:
4/9/18	1254	Calibrate	1415	9.8	
4/10/18	0718	Calibrate	1415	11.3	

Turbidity Meter(s): Make/Model/Serial No.: Hach 2100P / 08030C028697

Date	Time	Calibrate/Check	Gel Value (NTU)	Reading (NTU)	Notes:
4/9/18	1301	check	4.55	4.43	
4/10/18	0758	check	4.55	4.33	

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-93866-1
Client Project/Site: Summit National-2018 Annual Sediment

For:
Eagon & Associates, Inc.
100 Old Wilson Bridge Road
Suite 115
Worthington, Ohio 43085

Attn: Mr. Mike Gibson

Authorized for release by:
4/20/2018 5:20:47 PM
Kris Brooks, Project Manager II
(330)966-9790
kris.brooks@testamericainc.com

Designee for

Patrick O'Meara, Manager of Project Management
(330)966-5725
patrick.omeara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-93866-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Eagon & Associates, Inc.

Project: Summit National-2018 Annual Sediment

Report Number: 240-93866-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/10/2018 1:13 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.3º C, 3.5º C, 3.7º C and 3.9º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SD-041018-AG-020 (240-93866-1) and SD-041018-AG-021 (240-93866-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 04/10/2018 and analyzed on 04/12/2018.

Ethylbenzene and Tetrachloroethene exceeded the RPD limit for the MSD of sample SD-041018-AG-020MSD (240-93866-1) in batch 240-322298. Refer to the QC report for details.

The continuing calibration verification (CCV) analyzed in batch 240-322298 was outside the method criteria for the following analyte(s): 2-Hexanone, Chloromethane, 4-Methyl-2-pentanone, and 2-Butanone. An MRL standard at or below the reporting limit (RL) was analyzed with the affected samples SD-041018-AG-020 (240-93866-1), SD-041018-AG-020 (240-93866-1[MS]), SD-041018-AG-020 (240-93866-1[MSD]), SD-041018-AG-021 (240-93866-2), (CCV 240-322298/4), (CCVIS 240-322298/3), (LCS 240-322298/5) and (MB 240-322298/6) and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 240-93866-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Internal standard (ISTD) response for the following samples were outside control limits: SD-041018-AG-020 (240-93866-1) and SD-041018-AG-020 (240-93866-1[MSD]). The sample was re-extracted and/or re-analyzed with concurring results, and the original set of data has been reported.

Carbon disulfide was detected in method blank MB 240-322298/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples RB-041018-AG-022 (240-93866-3) and TRIP BLANK (240-93866-4) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 04/19/2018.

Methylene Chloride was detected in method blank MB 240-323134/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

1,1,2-Trichloroethane failed the recovery criteria high for LCS 240-323134/4. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 323134 recovered above the upper control limit for one or multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: RB-041018-AG-022 (240-93866-3) and TRIP BLANK (240-93866-4).

The laboratory control sample (LCS) for 323134 recovered outside control limits for one or multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.RB-041018-AG-022 (240-93866-3), TRIP BLANK (240-93866-4) and (LCS 240-323134/4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SD-041018-AG-020 (240-93866-1) and SD-041018-AG-021 (240-93866-2) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/11/2018 and analyzed on 04/13/2018.

Phenol was detected in method blank MB 240-322112/9-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

2-Fluorobiphenyl (Surr), 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for SD-041018-AG-020 (240-93866-1). 2-Fluorobiphenyl (Surr), 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for SD-041018-AG-020MS (240-93866-1MS). 2-Fluorobiphenyl (Surr), 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for SD-041018-AG-020MSD (240-93866-1MSD). Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS of sample SD-041018-AG-020MS (240-93866-1) in batch 240-322400. Several analytes failed the recovery criteria low for the MSD of sample SD-041018-AG-020MSD (240-93866-1) in batch 240-322400. Several analytes exceeded the RPD limit. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 240-322270 recovered above the upper control limit for 3-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: RB-041018-AG-022 (240-93866-3) and (240-93874-K-1-A).

The continuing calibration verification (CCV) associated with batch 240-322400 recovered above the upper control limit for 2,4-Dinitrophenol. The sample(s) associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following samples are impacted: SD-041018-AG-020 (240-93866-1) and SD-041018-AG-021 (240-93866-2).

Job ID: 240-93866-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) and sample: SD-041018-AG-020 (240-93866-1), SD-041018-AG-020 (240-93866-1[MS]) and SD-041018-AG-020 (240-93866-1[MSD]) due to demonstrated matrix effect. The sample and MS/MSD has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample RB-041018-AG-022 (240-93866-3) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/11/2018 and analyzed on 04/12/2018.

Diethyl phthalate was detected in method blank MB 240-322049/7-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples SD-041018-AG-020 (240-93866-1) and SD-041018-AG-021 (240-93866-2) were analyzed for percent solids in accordance with ASTM Method D2216-80. The samples were analyzed on 04/10/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CAN
3540C	Soxhlet Extraction	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN
5035	Closed System Purge and Trap	SW846	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-93866-1	SD-041018-AG-020	Solid	04/10/18 10:05	04/10/18 13:13
240-93866-2	SD-041018-AG-021	Solid	04/10/18 10:05	04/10/18 13:13
240-93866-3	RB-041018-AG-022	Water	04/10/18 10:30	04/10/18 13:13
240-93866-4	TRIP BLANK	Water	04/10/18 00:00	04/10/18 13:13

Detection Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: SD-041018-AG-020 — Lab Sample ID: 240-93866-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	5.5	J F1	11	0.57	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	23	F1	11	1.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	23	F1	11	1.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	48		11	0.96	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	100		11	0.57	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	12	F1	11	1.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	45	F1	11	1.8	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	60	J F1	82	1.1	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	46		11	0.90	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	25		11	0.57	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	260	F2 F1	11	0.82	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	160	F2 F1	11	1.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	170		11	1.2	ug/Kg	1	☼	8270D	Total/NA
Phenol	24	J F1 B	82	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	66		11	0.72	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: SD-041018-AG-021 — Lab Sample ID: 240-93866-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	1.4	J	21	1.3	ug/Kg	1	☼	8260C	Total/NA
Carbon disulfide	1.8	J B	5.3	0.22	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	8.9	J	9.2	0.48	ug/Kg	1	☼	8270D	Total/NA
Anthracene	15		9.2	1.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	50		9.2	0.87	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	45		9.2	0.88	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	91		9.2	0.81	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180		9.2	0.48	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	18		9.2	0.94	ug/Kg	1	☼	8270D	Total/NA
Chrysene	82		9.2	1.5	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	16		9.2	0.91	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	150		69	0.91	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	100		9.2	0.76	ug/Kg	1	☼	8270D	Total/NA
Fluorene	16		9.2	0.73	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	44		9.2	0.48	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	740		9.2	0.69	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	510		9.2	1.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	410		9.2	1.0	ug/Kg	1	☼	8270D	Total/NA
Phenol	38	J B	69	10	ug/Kg	1	☼	8270D	Total/NA
Pyrene	130		9.2	0.61	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: RB-041018-AG-022 — Lab Sample ID: 240-93866-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	1.5	J B	1.8	0.11	ug/L	1		8270D	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-93866-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: SD-041018-AG-020

Date Collected: 04/10/18 10:05
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93866-1

Matrix: Solid
Percent Solids: 62.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		26	4.0	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Benzene	ND		6.5	0.42	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Bromodichloromethane	ND		6.5	0.43	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Bromoform	ND		6.5	0.52	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Bromomethane	ND		6.5	0.77	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
2-Butanone	ND		26	1.7	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Carbon disulfide	ND		6.5	0.27	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Carbon tetrachloride	ND		6.5	0.33	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Chlorobenzene	ND		6.5	0.43	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Chloroethane	ND		6.5	0.50	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Chloroform	ND		6.5	0.30	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Chloromethane	ND		6.5	0.50	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
cis-1,3-Dichloropropene	ND		6.5	0.34	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Dibromochloromethane	ND		6.5	0.39	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
1,1-Dichloroethane	ND		6.5	0.43	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
1,2-Dichloroethane	ND		6.5	0.38	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
1,1-Dichloroethene	ND		6.5	0.71	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
1,2-Dichloroethene, Total	ND		13	0.55	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
1,2-Dichloropropane	ND		6.5	0.41	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Ethylbenzene	ND	F2	6.5	0.35	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
2-Hexanone	ND		26	0.76	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Methylene Chloride	ND		6.5	0.31	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
4-Methyl-2-pentanone	ND		26	1.2	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Styrene	ND		6.5	0.35	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
1,1,2,2-Tetrachloroethane	ND	*	6.5	0.34	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Tetrachloroethene	ND	F2	6.5	0.48	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Toluene	ND		6.5	0.45	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
trans-1,3-Dichloropropene	ND		6.5	0.27	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
1,1,1-Trichloroethane	ND		6.5	0.30	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
1,1,2-Trichloroethane	ND		6.5	0.51	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Trichloroethene	ND		6.5	0.54	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Vinyl chloride	ND		6.5	0.37	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1
Xylenes, Total	ND		13	0.52	ug/Kg	☼	04/10/18 16:45	04/12/18 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*	*	*61 - 132*	*04/10/18 16:45*	*04/12/18 17:34*	*1*
Dibromofluoromethane (Surr)	*96*		*43 - 131*	*04/10/18 16:45*	*04/12/18 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*61 - 127*	*04/10/18 16:45*	*04/12/18 17:34*	*1*
Toluene-d8 (Surr)	*100*		*66 - 125*	*04/10/18 16:45*	*04/12/18 17:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	F1	11	1.2	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Acenaphthylene	**5.5**	**J F1**	11	0.57	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Anthracene	ND	F1	11	1.3	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Benzo[a]anthracene	**23**	**F1**	11	1.0	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Benzo[a]pyrene	**23**	**F1**	11	1.0	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Benzo[b]fluoranthene	**48**		11	0.96	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Benzo[g,h,i]perylene	**100**		11	0.57	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Benzo[k]fluoranthene	**12**	**F1**	11	1.1	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1

Client Sample ID: SD-041018-AG-020

Date Collected: 04/10/18 10:05
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93866-1

Matrix: Solid
Percent Solids: 62.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND	F2 F1	160	36	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Bis(2-chloroethyl)ether	ND	F1	160	3.3	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Bis(2-ethylhexyl) phthalate	ND	F1	110	31	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
4-Bromophenyl phenyl ether	ND	F1	82	21	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Butylbenzylphthalate	ND	F1	110	16	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Carbazole	ND	F1	82	44	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
4-Chloroaniline	ND		240	28	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
4-Chloro-3-methylphenol	ND	F2 F1	240	34	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2-Chloronaphthalene	ND	F2 F1	82	0.73	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2-Chlorophenol	ND	F1	82	13	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
4-Chlorophenyl phenyl ether	ND	F1	82	21	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Chrysene	**45**	**F1**	11	1.8	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Dibenz(a,h)anthracene	ND		11	1.1	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Dibenzofuran	**60**	**J F1**	82	1.1	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
1,2-Dichlorobenzene	ND	F1	82	16	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
1,3-Dichlorobenzene	ND	F1	82	18	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
1,4-Dichlorobenzene	ND	F1	82	33	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
3,3'-Dichlorobenzidine	ND	F1	160	29	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2,4-Dichlorophenol	ND	F1	240	33	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Diethyl phthalate	ND	F1	110	26	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2,4-Dimethylphenol	ND	F1	240	33	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Dimethyl phthalate	ND	F1	110	28	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Di-n-butyl phthalate	ND	F1	110	24	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
4,6-Dinitro-2-methylphenol	ND	F2	240	15	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2,4-Dinitrophenol	ND	F2 F1	540	34	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2,4-Dinitrotoluene	ND	F1	330	28	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2,6-Dinitrotoluene	ND	F1	330	34	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Di-n-octyl phthalate	ND	F1	110	13	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Fluoranthene	**46**		11	0.90	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Fluorene	ND	F1	11	0.86	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Hexachlorobenzene	ND	F1	11	3.4	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Hexachlorobutadiene	ND	F1	82	9.1	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Hexachlorocyclopentadiene	ND	F1	540	13	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Hexachloroethane	ND	F1	82	15	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Indeno[1,2,3-cd]pyrene	**25**		11	0.57	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Isophorone	ND	F2 F1	82	21	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2-Methylnaphthalene	**260**	**F2 F1**	11	0.82	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2-Methylphenol	ND	F1	330	18	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
3 & 4 Methylphenol	ND	F1	650	33	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Naphthalene	**160**	**F2 F1**	11	1.3	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2-Nitroaniline	ND	F2 F1	330	15	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
3-Nitroaniline	ND	F1	330	26	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
4-Nitroaniline	ND	F1	330	42	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Nitrobenzene	ND	F1	160	3.6	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2-Nitrophenol	ND	F1	82	14	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
4-Nitrophenol	ND	F1	540	28	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
N-Nitrosodi-n-propylamine	ND	F2 F1	82	10	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
N-Nitrosodiphenylamine	ND	F1	82	34	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2,2'-oxybis[1-chloropropane]	ND	F2 F1	160	15	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: SD-041018-AG-020

Date Collected: 04/10/18 10:05
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93866-1

Matrix: Solid
Percent Solids: 62.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		240	15	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Phenanthrene	**170**		11	1.2	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Phenol	**24**	**J F1 B**	82	12	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
Pyrene	**66**		11	0.72	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
1,2,4-Trichlorobenzene	ND	F1	82	5.7	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2,4,5-Trichlorophenol	ND		240	41	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1
2,4,6-Trichlorophenol	ND		240	15	ug/Kg	☼	04/11/18 11:47	04/13/18 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*27*	*X*	*32 - 120*	*04/11/18 11:47*	*04/13/18 18:34*	*1*
2-Fluorophenol (Surr)	*24*	*X*	*29 - 120*	*04/11/18 11:47*	*04/13/18 18:34*	*1*
Nitrobenzene-d5 (Surr)	*24*	*X*	*30 - 120*	*04/11/18 11:47*	*04/13/18 18:34*	*1*
Phenol-d5 (Surr)	*24*	*X*	*29 - 120*	*04/11/18 11:47*	*04/13/18 18:34*	*1*
Terphenyl-d14 (Surr)	*29*	*X*	*41 - 120*	*04/11/18 11:47*	*04/13/18 18:34*	*1*
2,4,6-Tribromophenol (Surr)	*23*		*10 - 120*	*04/11/18 11:47*	*04/13/18 18:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**62.2**		0.1	0.1	%			04/10/18 18:14	1

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: SD-041018-AG-021

Date Collected: 04/10/18 10:05
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93866-2

Matrix: Solid
Percent Solids: 73.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		21	3.2	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Benzene	ND		5.3	0.34	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Bromodichloromethane	ND		5.3	0.35	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Bromoform	ND		5.3	0.42	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Bromomethane	ND		5.3	0.63	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
2-Butanone	**1.4**	**J**	21	1.3	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Carbon disulfide	**1.8**	**J B**	5.3	0.22	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Carbon tetrachloride	ND		5.3	0.26	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Chlorobenzene	ND		5.3	0.35	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Chloroethane	ND		5.3	0.40	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Chloroform	ND		5.3	0.24	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Chloromethane	ND		5.3	0.40	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
cis-1,3-Dichloropropene	ND		5.3	0.28	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Dibromochloromethane	ND		5.3	0.32	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
1,1-Dichloroethane	ND		5.3	0.35	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
1,2-Dichloroethane	ND		5.3	0.31	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
1,1-Dichloroethene	ND		5.3	0.57	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
1,2-Dichloroethene, Total	ND		11	0.44	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
1,2-Dichloropropane	ND		5.3	0.33	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Ethylbenzene	ND		5.3	0.29	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
2-Hexanone	ND		21	0.61	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Methylene Chloride	ND		5.3	0.25	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
4-Methyl-2-pentanone	ND		21	0.94	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Styrene	ND		5.3	0.29	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
1,1,2,2-Tetrachloroethane	ND		5.3	0.28	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Tetrachloroethene	ND		5.3	0.39	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Toluene	ND		5.3	0.36	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
trans-1,3-Dichloropropene	ND		5.3	0.22	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
1,1,1-Trichloroethane	ND		5.3	0.24	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
1,1,2-Trichloroethane	ND		5.3	0.41	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Trichloroethene	ND		5.3	0.43	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Vinyl chloride	ND		5.3	0.30	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1
Xylenes, Total	ND		11	0.42	ug/Kg	☼	04/10/18 16:45	04/12/18 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*61 - 132*	*04/10/18 16:45*	*04/12/18 18:38*	*1*
Dibromofluoromethane (Surr)	*82*		*43 - 131*	*04/10/18 16:45*	*04/12/18 18:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 127*	*04/10/18 16:45*	*04/12/18 18:38*	*1*
Toluene-d8 (Surr)	*90*		*66 - 125*	*04/10/18 16:45*	*04/12/18 18:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.2	1.0	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Acenaphthylene	**8.9**	**J**	9.2	0.48	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Anthracene	**15**		9.2	1.1	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Benzo[a]anthracene	**50**		9.2	0.87	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Benzo[a]pyrene	**45**		9.2	0.88	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Benzo[b]fluoranthene	**91**		9.2	0.81	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Benzo[g,h,i]perylene	**180**		9.2	0.48	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Benzo[k]fluoranthene	**18**		9.2	0.94	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1

Client Sample ID: SD-041018-AG-021

Date Collected: 04/10/18 10:05
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93866-2

Matrix: Solid
Percent Solids: 73.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		140	30	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Bis(2-chloroethyl)ether	ND		140	2.8	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Bis(2-ethylhexyl) phthalate	ND		96	26	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
4-Bromophenyl phenyl ether	ND		69	18	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Butylbenzylphthalate	ND		96	14	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Carbazole	ND		69	37	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
4-Chloroaniline	ND		210	23	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
4-Chloro-3-methylphenol	ND		210	29	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2-Chloronaphthalene	ND		69	0.62	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2-Chlorophenol	ND		69	11	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
4-Chlorophenyl phenyl ether	ND		69	18	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Chrysene	**82**		9.2	1.5	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Dibenz(a,h)anthracene	**16**		9.2	0.91	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Dibenzofuran	**150**		69	0.91	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
1,2-Dichlorobenzene	ND		69	13	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
1,3-Dichlorobenzene	ND		69	15	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
1,4-Dichlorobenzene	ND		69	28	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
3,3'-Dichlorobenzidine	ND		140	25	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2,4-Dichlorophenol	ND		210	28	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Diethyl phthalate	ND		96	22	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2,4-Dimethylphenol	ND		210	28	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Dimethyl phthalate	ND		96	23	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Di-n-butyl phthalate	ND		96	21	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
4,6-Dinitro-2-methylphenol	ND		210	13	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2,4-Dinitrophenol	ND		450	29	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2,4-Dinitrotoluene	ND		280	23	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2,6-Dinitrotoluene	ND		280	29	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Di-n-octyl phthalate	ND		96	11	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Fluoranthene	**100**		9.2	0.76	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Fluorene	**16**		9.2	0.73	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Hexachlorobenzene	ND		9.2	2.9	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Hexachlorobutadiene	ND		69	7.7	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Hexachlorocyclopentadiene	ND		450	11	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Hexachloroethane	ND		69	12	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Indeno[1,2,3-cd]pyrene	**44**		9.2	0.48	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Isophorone	ND		69	18	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2-Methylnaphthalene	**740**		9.2	0.69	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2-Methylphenol	ND		280	15	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
3 & 4 Methylphenol	ND		550	28	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Naphthalene	**510**		9.2	1.1	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2-Nitroaniline	ND		280	13	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
3-Nitroaniline	ND		280	22	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
4-Nitroaniline	ND		280	36	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Nitrobenzene	ND		140	3.0	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2-Nitrophenol	ND		69	11	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
4-Nitrophenol	ND		450	23	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
N-Nitrosodi-n-propylamine	ND		69	8.7	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
N-Nitrosodiphenylamine	ND		69	29	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2,2'-oxybis[1-chloropropane]	ND		140	13	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: SD-041018-AG-021

Date Collected: 04/10/18 10:05
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93866-2

Matrix: Solid
Percent Solids: 73.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		210	13	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Phenanthrene	**410**		9.2	1.0	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Phenol	**38**	**J B**	69	10	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
Pyrene	**130**		9.2	0.61	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
1,2,4-Trichlorobenzene	ND		69	4.8	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2,4,5-Trichlorophenol	ND		210	34	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1
2,4,6-Trichlorophenol	ND		210	12	ug/Kg	☼	04/11/18 11:47	04/13/18 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*49*		*32 - 120*	*04/11/18 11:47*	*04/13/18 19:45*	*1*
2-Fluorophenol (Surr)	*54*		*29 - 120*	*04/11/18 11:47*	*04/13/18 19:45*	*1*
Nitrobenzene-d5 (Surr)	*44*		*30 - 120*	*04/11/18 11:47*	*04/13/18 19:45*	*1*
Phenol-d5 (Surr)	*50*		*29 - 120*	*04/11/18 11:47*	*04/13/18 19:45*	*1*
Terphenyl-d14 (Surr)	*53*		*41 - 120*	*04/11/18 11:47*	*04/13/18 19:45*	*1*
2,4,6-Tribromophenol (Surr)	*42*		*10 - 120*	*04/11/18 11:47*	*04/13/18 19:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**73.1**		0.1	0.1	%			04/10/18 18:14	1

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: RB-041018-AG-022

Date Collected: 04/10/18 10:30
Date Received: 04/10/18 13:13

Lab Sample ID: 240-93866-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.8	ug/L			04/19/18 14:18	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 14:18	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/19/18 14:18	1
Bromoform	ND		1.0	0.43	ug/L			04/19/18 14:18	1
Bromomethane	ND		1.0	0.42	ug/L			04/19/18 14:18	1
2-Butanone	ND		10	1.0	ug/L			04/19/18 14:18	1
Carbon disulfide	ND		1.0	0.34	ug/L			04/19/18 14:18	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			04/19/18 14:18	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 14:18	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 14:18	1
Chloroform	ND		1.0	0.31	ug/L			04/19/18 14:18	1
Chloromethane	ND		1.0	0.43	ug/L			04/19/18 14:18	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			04/19/18 14:18	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/19/18 14:18	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 14:18	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 14:18	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			04/19/18 14:18	1
1,2-Dichloroethene, Total	ND		2.0	0.56	ug/L			04/19/18 14:18	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/19/18 14:18	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 14:18	1
2-Hexanone	ND		10	1.2	ug/L			04/19/18 14:18	1
Methylene Chloride	ND		1.0	0.53	ug/L			04/19/18 14:18	1
4-Methyl-2-pentanone	ND		10	0.71	ug/L			04/19/18 14:18	1
Styrene	ND		1.0	0.23	ug/L			04/19/18 14:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			04/19/18 14:18	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/19/18 14:18	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 14:18	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			04/19/18 14:18	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 14:18	1
1,1,2-Trichloroethane	ND	*	1.0	0.34	ug/L			04/19/18 14:18	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 14:18	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 14:18	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*69 - 120*		*04/19/18 14:18*	*1*
Dibromofluoromethane (Surr)	*92*		*69 - 124*		*04/19/18 14:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 138*		*04/19/18 14:18*	*1*
Toluene-d8 (Surr)	*99*		*73 - 120*		*04/19/18 14:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.18	0.039	ug/L		04/11/18 08:29	04/12/18 14:13	1
Acenaphthylene	ND		0.18	0.018	ug/L		04/11/18 08:29	04/12/18 14:13	1
Anthracene	ND		0.18	0.028	ug/L		04/11/18 08:29	04/12/18 14:13	1
Benzo[a]anthracene	ND		0.18	0.053	ug/L		04/11/18 08:29	04/12/18 14:13	1
Benzo[a]pyrene	ND		0.18	0.027	ug/L		04/11/18 08:29	04/12/18 14:13	1
Benzo[b]fluoranthene	ND		0.18	0.053	ug/L		04/11/18 08:29	04/12/18 14:13	1
Benzo[g,h,i]perylene	ND		0.18	0.045	ug/L		04/11/18 08:29	04/12/18 14:13	1
Benzo[k]fluoranthene	ND		0.18	0.043	ug/L		04/11/18 08:29	04/12/18 14:13	1

Client Sample ID: RB-041018-AG-022

Lab Sample ID: 240-93866-3

Date Collected: 04/10/18 10:30

Matrix: Water

Date Received: 04/10/18 13:13

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		0.89	0.033	ug/L		04/11/18 08:29	04/12/18 14:13	1
Bis(2-chloroethyl)ether	ND		0.89	0.17	ug/L		04/11/18 08:29	04/12/18 14:13	1
Bis(2-ethylhexyl) phthalate	ND		4.5	1.4	ug/L		04/11/18 08:29	04/12/18 14:13	1
4-Bromophenyl phenyl ether	ND		1.8	0.31	ug/L		04/11/18 08:29	04/12/18 14:13	1
Butylbenzylphthalate	ND		1.8	0.19	ug/L		04/11/18 08:29	04/12/18 14:13	1
Carbazole	ND		0.89	0.094	ug/L		04/11/18 08:29	04/12/18 14:13	1
4-Chloroaniline	ND		1.8	0.13	ug/L		04/11/18 08:29	04/12/18 14:13	1
4-Chloro-3-methylphenol	ND		1.8	0.25	ug/L		04/11/18 08:29	04/12/18 14:13	1
2-Chloronaphthalene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 14:13	1
2-Chlorophenol	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 14:13	1
4-Chlorophenyl phenyl ether	ND		1.8	0.26	ug/L		04/11/18 08:29	04/12/18 14:13	1
Chrysene	ND		0.18	0.031	ug/L		04/11/18 08:29	04/12/18 14:13	1
Dibenz(a,h)anthracene	ND		0.18	0.036	ug/L		04/11/18 08:29	04/12/18 14:13	1
Dibenzofuran	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 14:13	1
1,2-Dichlorobenzene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 14:13	1
1,3-Dichlorobenzene	ND		0.89	0.12	ug/L		04/11/18 08:29	04/12/18 14:13	1
1,4-Dichlorobenzene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 14:13	1
3,3'-Dichlorobenzidine	ND		4.5	0.32	ug/L		04/11/18 08:29	04/12/18 14:13	1
2,4-Dichlorophenol	ND		1.8	0.26	ug/L		04/11/18 08:29	04/12/18 14:13	1
Diethyl phthalate	**1.5**	**J B**	1.8	0.11	ug/L		04/11/18 08:29	04/12/18 14:13	1
2,4-Dimethylphenol	ND		1.8	0.28	ug/L		04/11/18 08:29	04/12/18 14:13	1
Dimethyl phthalate	ND		1.8	0.090	ug/L		04/11/18 08:29	04/12/18 14:13	1
Di-n-butyl phthalate	ND		4.5	0.36	ug/L		04/11/18 08:29	04/12/18 14:13	1
4,6-Dinitro-2-methylphenol	ND		4.5	0.47	ug/L		04/11/18 08:29	04/12/18 14:13	1
2,4-Dinitrophenol	ND		36	5.5	ug/L		04/11/18 08:29	04/12/18 14:13	1
2,4-Dinitrotoluene	ND		4.5	0.23	ug/L		04/11/18 08:29	04/12/18 14:13	1
2,6-Dinitrotoluene	ND		4.5	0.21	ug/L		04/11/18 08:29	04/12/18 14:13	1
Di-n-octyl phthalate	ND		1.8	0.33	ug/L		04/11/18 08:29	04/12/18 14:13	1
Fluoranthene	ND		0.18	0.024	ug/L		04/11/18 08:29	04/12/18 14:13	1
Fluorene	ND		0.18	0.030	ug/L		04/11/18 08:29	04/12/18 14:13	1
Hexachlorobenzene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 14:13	1
Hexachlorobutadiene	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 14:13	1
Hexachlorocyclopentadiene	ND		8.9	2.2	ug/L		04/11/18 08:29	04/12/18 14:13	1
Hexachloroethane	ND		0.89	0.20	ug/L		04/11/18 08:29	04/12/18 14:13	1
Indeno[1,2,3-cd]pyrene	ND		0.18	0.043	ug/L		04/11/18 08:29	04/12/18 14:13	1
Isophorone	ND		0.89	0.038	ug/L		04/11/18 08:29	04/12/18 14:13	1
2-Methylnaphthalene	ND		0.18	0.033	ug/L		04/11/18 08:29	04/12/18 14:13	1
2-Methylphenol	ND		0.89	0.17	ug/L		04/11/18 08:29	04/12/18 14:13	1
3 & 4 Methylphenol	ND		1.8	0.30	ug/L		04/11/18 08:29	04/12/18 14:13	1
Naphthalene	ND		0.18	0.038	ug/L		04/11/18 08:29	04/12/18 14:13	1
2-Nitroaniline	ND		1.8	0.28	ug/L		04/11/18 08:29	04/12/18 14:13	1
3-Nitroaniline	ND		1.8	0.24	ug/L		04/11/18 08:29	04/12/18 14:13	1
4-Nitroaniline	ND		1.8	0.22	ug/L		04/11/18 08:29	04/12/18 14:13	1
Nitrobenzene	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 14:13	1
2-Nitrophenol	ND		1.8	0.18	ug/L		04/11/18 08:29	04/12/18 14:13	1
4-Nitrophenol	ND		4.5	0.52	ug/L		04/11/18 08:29	04/12/18 14:13	1
N-Nitrosodi-n-propylamine	ND		0.89	0.14	ug/L		04/11/18 08:29	04/12/18 14:13	1
N-Nitrosodiphenylamine	ND		0.89	0.10	ug/L		04/11/18 08:29	04/12/18 14:13	1
2,2'-oxybis[1-chloropropane]	ND		0.89	0.16	ug/L		04/11/18 08:29	04/12/18 14:13	1

Client Sample ID: RB-041018-AG-022

Lab Sample ID: 240-93866-3

Date Collected: 04/10/18 10:30

Matrix: Water

Date Received: 04/10/18 13:13

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		36	4.9	ug/L		04/11/18 08:29	04/12/18 14:13	1
Phenanthrene	ND		0.18	0.028	ug/L		04/11/18 08:29	04/12/18 14:13	1
Phenol	ND		0.89	0.13	ug/L		04/11/18 08:29	04/12/18 14:13	1
Pyrene	ND		0.18	0.025	ug/L		04/11/18 08:29	04/12/18 14:13	1
1,2,4-Trichlorobenzene	ND		0.89	0.14	ug/L		04/11/18 08:29	04/12/18 14:13	1
2,4,5-Trichlorophenol	ND		4.5	0.33	ug/L		04/11/18 08:29	04/12/18 14:13	1
2,4,6-Trichlorophenol	ND		4.5	0.23	ug/L		04/11/18 08:29	04/12/18 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*32 - 120*	*04/11/18 08:29*	*04/12/18 14:13*	*1*
2-Fluorophenol (Surr)	*54*		*17 - 120*	*04/11/18 08:29*	*04/12/18 14:13*	*1*
Nitrobenzene-d5 (Surr)	*67*		*35 - 120*	*04/11/18 08:29*	*04/12/18 14:13*	*1*
Phenol-d5 (Surr)	*48*		*15 - 120*	*04/11/18 08:29*	*04/12/18 14:13*	*1*
Terphenyl-d14 (Surr)	*91*		*28 - 128*	*04/11/18 08:29*	*04/12/18 14:13*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*33 - 120*	*04/11/18 08:29*	*04/12/18 14:13*	*1*

Client Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-93866-4

Date Collected: 04/10/18 00:00
Date Received: 04/10/18 13:13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.8	ug/L			04/19/18 14:41	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 14:41	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/19/18 14:41	1
Bromoform	ND		1.0	0.43	ug/L			04/19/18 14:41	1
Bromomethane	ND		1.0	0.42	ug/L			04/19/18 14:41	1
2-Butanone	ND		10	1.0	ug/L			04/19/18 14:41	1
Carbon disulfide	ND		1.0	0.34	ug/L			04/19/18 14:41	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			04/19/18 14:41	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 14:41	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 14:41	1
Chloroform	ND		1.0	0.31	ug/L			04/19/18 14:41	1
Chloromethane	ND		1.0	0.43	ug/L			04/19/18 14:41	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			04/19/18 14:41	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/19/18 14:41	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 14:41	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 14:41	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			04/19/18 14:41	1
1,2-Dichloroethene, Total	ND		2.0	0.56	ug/L			04/19/18 14:41	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/19/18 14:41	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 14:41	1
2-Hexanone	ND		10	1.2	ug/L			04/19/18 14:41	1
Methylene Chloride	ND		1.0	0.53	ug/L			04/19/18 14:41	1
4-Methyl-2-pentanone	ND		10	0.71	ug/L			04/19/18 14:41	1
Styrene	ND		1.0	0.23	ug/L			04/19/18 14:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			04/19/18 14:41	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/19/18 14:41	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 14:41	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			04/19/18 14:41	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 14:41	1
1,1,2-Trichloroethane	ND	*	1.0	0.34	ug/L			04/19/18 14:41	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 14:41	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 14:41	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*69 - 120*		*04/19/18 14:41*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*04/19/18 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 138*		*04/19/18 14:41*	*1*
Toluene-d8 (Surr)	*110*		*73 - 120*		*04/19/18 14:41*	*1*

Surrogate Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(61-132)	(43-131)	(61-127)	(66-125)
240-93866-1	SD-041018-AG-020	94 *	96	77	100
240-93866-1 MS	SD-041018-AG-020	104	89	69	97
240-93866-1 MSD	SD-041018-AG-020	122 *	89	70	114
240-93866-2	SD-041018-AG-021	91	82	75	90
LCS 240-322298/5	Lab Control Sample	90	92	70	92
MB 240-322298/6	Method Blank	92	88	72	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(69-120)	(69-124)	(61-138)	(73-120)
240-93866-3	RB-041018-AG-022	70	92	84	99
240-93866-4	TRIP BLANK	79	106	97	110
LCS 240-323134/4	Lab Control Sample	83	105	96	112
MB 240-323134/6	Method Blank	78	106	100	110

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-120)	(29-120)	(30-120)	(29-120)	(41-120)	(10-120)
240-93866-1	SD-041018-AG-020	27 X	24 X	24 X	24 X	29 X	23
240-93866-1 MS	SD-041018-AG-020	29 X	25 X	27 X	28 X	32 X	24
240-93866-1 MSD	SD-041018-AG-020	21 X	18 X	18 X	21 X	28 X	22
240-93866-2	SD-041018-AG-021	49	54	44	50	53	42
LCS 240-322112/10-A	Lab Control Sample	78	72	68	74	88	42
MB 240-322112/9-A	Method Blank	69	56	61	58	79	43

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-120)	(17-120)	(35-120)	(15-120)	(28-128)	(33-120)
240-93866-3	RB-041018-AG-022	72	54	67	48	91	70
LCS 240-322049/8-A	Lab Control Sample	81	66	81	60	89	84
MB 240-322049/7-A	Method Blank	69	50	62	42	82	61

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 240-93866-1 MS — **Client Sample ID: SD-041018-AG-020**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322298 — **Prep Batch: 322122**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		126	85.5		ug/Kg	☼	68	15 - 127
Benzene	ND		63.1	50.2		ug/Kg	☼	80	33 - 127
Bromodichloromethane	ND		63.1	42.5		ug/Kg	☼	67	22 - 127
Bromoform	ND		63.1	39.3		ug/Kg	☼	62	10 - 120
Bromomethane	ND		25.2	18.1		ug/Kg	☼	72	13 - 138
2-Butanone	ND		126	77.9		ug/Kg	☼	62	29 - 127
Carbon disulfide	ND		63.1	45.6		ug/Kg	☼	72	15 - 131
Carbon tetrachloride	ND		63.1	40.4		ug/Kg	☼	64	17 - 127
Chlorobenzene	ND		63.1	38.8		ug/Kg	☼	62	15 - 122
Chloroethane	ND		25.2	18.0		ug/Kg	☼	71	15 - 148
Chloroform	ND		63.1	46.8		ug/Kg	☼	74	41 - 121
Chloromethane	ND		25.2	14.6		ug/Kg	☼	58	33 - 122
cis-1,3-Dichloropropene	ND		63.1	45.5		ug/Kg	☼	72	13 - 127
Dibromochloromethane	ND		63.1	41.1		ug/Kg	☼	65	19 - 120
1,1-Dichloroethane	ND		63.1	48.0		ug/Kg	☼	76	41 - 122
1,2-Dichloroethane	ND		63.1	39.3		ug/Kg	☼	62	35 - 122
1,1-Dichloroethene	ND		63.1	47.2		ug/Kg	☼	75	30 - 139
1,2-Dichloroethene, Total	ND		126	104		ug/Kg	☼	82	46 - 121
1,2-Dichloropropane	ND		63.1	48.6		ug/Kg	☼	77	38 - 130
Ethylbenzene	ND	F2	63.1	40.8		ug/Kg	☼	65	18 - 126
2-Hexanone	ND		126	89.4		ug/Kg	☼	71	21 - 136
Methylene Chloride	ND		63.1	52.3		ug/Kg	☼	83	34 - 134
4-Methyl-2-pentanone	ND		126	92.2		ug/Kg	☼	73	16 - 164
Styrene	ND		63.1	35.8		ug/Kg	☼	57	10 - 128
1,1,2,2-Tetrachloroethane	ND	*	63.1	66.7		ug/Kg	☼	106	16 - 157
Tetrachloroethene	ND	F2	63.1	42.4		ug/Kg	☼	67	17 - 126
Toluene	ND		63.1	45.5		ug/Kg	☼	72	29 - 127
trans-1,3-Dichloropropene	ND		63.1	37.7		ug/Kg	☼	60	11 - 120
1,1,1-Trichloroethane	ND		63.1	43.3		ug/Kg	☼	69	33 - 130
1,1,2-Trichloroethane	ND		63.1	54.6		ug/Kg	☼	87	19 - 137
Trichloroethene	ND		63.1	45.6		ug/Kg	☼	72	10 - 160
Vinyl chloride	ND		25.2	17.4		ug/Kg	☼	69	31 - 134
Xylenes, Total	ND		126	77.9		ug/Kg	☼	62	10 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*61 - 132*
Dibromofluoromethane (Surr)	*89*		*43 - 131*
1,2-Dichloroethane-d4 (Surr)	*69*		*61 - 127*
Toluene-d8 (Surr)	*97*		*66 - 125*

Lab Sample ID: 240-93866-1 MSD — **Client Sample ID: SD-041018-AG-020**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322298 — **Prep Batch: 322122**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		123	77.9		ug/Kg	☼	63	15 - 127	9	40
Benzene	ND		61.7	53.9		ug/Kg	☼	87	33 - 127	7	40
Bromodichloromethane	ND		61.7	44.0		ug/Kg	☼	71	22 - 127	4	40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-93866-1 MSD
Matrix: Solid
Analysis Batch: 322298

Client Sample ID: SD-041018-AG-020
Prep Type: Total/NA
Prep Batch: 322122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		61.7	40.4		ug/Kg	☼	65	10 - 120	3	40
Bromomethane	ND		24.7	17.4		ug/Kg	☼	70	13 - 138	4	40
2-Butanone	ND		123	74.2		ug/Kg	☼	60	29 - 127	5	40
Carbon disulfide	ND		61.7	42.3		ug/Kg	☼	69	15 - 131	8	40
Carbon tetrachloride	ND		61.7	44.5		ug/Kg	☼	72	17 - 127	10	40
Chlorobenzene	ND		61.7	51.9		ug/Kg	☼	84	15 - 122	29	40
Chloroethane	ND		24.7	16.9		ug/Kg	☼	69	15 - 148	6	40
Chloroform	ND		61.7	47.3		ug/Kg	☼	77	41 - 121	1	40
Chloromethane	ND		24.7	15.0		ug/Kg	☼	61	33 - 122	3	40
cis-1,3-Dichloropropene	ND		61.7	44.9		ug/Kg	☼	73	13 - 127	1	40
Dibromochloromethane	ND		61.7	46.3		ug/Kg	☼	75	19 - 120	12	40
1,1-Dichloroethane	ND		61.7	48.8		ug/Kg	☼	79	41 - 122	2	40
1,2-Dichloroethane	ND		61.7	38.2		ug/Kg	☼	62	35 - 122	3	40
1,1-Dichloroethene	ND		61.7	57.2		ug/Kg	☼	93	30 - 139	19	40
1,2-Dichloroethene, Total	ND		123	105		ug/Kg	☼	85	46 - 121	1	40
1,2-Dichloropropane	ND		61.7	52.1		ug/Kg	☼	84	38 - 130	7	40
Ethylbenzene	ND	F2	61.7	61.5	F2	ug/Kg	☼	100	18 - 126	41	40
2-Hexanone	ND		123	88.1		ug/Kg	☼	71	21 - 136	1	40
Methylene Chloride	ND		61.7	48.7		ug/Kg	☼	79	34 - 134	7	40
4-Methyl-2-pentanone	ND		123	102		ug/Kg	☼	83	16 - 164	10	40
Styrene	ND		61.7	48.1		ug/Kg	☼	78	10 - 128	29	40
1,1,2,2-Tetrachloroethane	ND	*	61.7	90.8	*	ug/Kg	☼	147	16 - 157	31	40
Tetrachloroethene	ND	F2	61.7	65.5	F2	ug/Kg	☼	106	17 - 126	43	40
Toluene	ND		61.7	63.8		ug/Kg	☼	103	29 - 127	33	40
trans-1,3-Dichloropropene	ND		61.7	42.9		ug/Kg	☼	70	11 - 120	13	40
1,1,1-Trichloroethane	ND		61.7	45.4		ug/Kg	☼	74	33 - 130	5	40
1,1,2-Trichloroethane	ND		61.7	63.2		ug/Kg	☼	102	19 - 137	15	40
Trichloroethene	ND		61.7	51.9		ug/Kg	☼	84	10 - 160	13	40
Vinyl chloride	ND		24.7	16.9		ug/Kg	☼	68	31 - 134	3	40
Xylenes, Total	ND		123	115		ug/Kg	☼	94	10 - 137	39	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*	*	*61 - 132*
Dibromofluoromethane (Surr)	*89*		*43 - 131*
1,2-Dichloroethane-d4 (Surr)	*70*		*61 - 127*
Toluene-d8 (Surr)	*114*		*66 - 125*

Lab Sample ID: MB 240-322298/6
Matrix: Solid
Analysis Batch: 322298

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	3.1	ug/Kg			04/12/18 13:58	1
Benzene	ND		5.0	0.32	ug/Kg			04/12/18 13:58	1
Bromodichloromethane	ND		5.0	0.33	ug/Kg			04/12/18 13:58	1
Bromoform	ND		5.0	0.40	ug/Kg			04/12/18 13:58	1
Bromomethane	ND		5.0	0.59	ug/Kg			04/12/18 13:58	1
2-Butanone	ND		20	1.3	ug/Kg			04/12/18 13:58	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-322298/6
Matrix: Solid
Analysis Batch: 322298

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.77	J	5.0	0.21	ug/Kg			04/12/18 13:58	1
Carbon tetrachloride	ND		5.0	0.25	ug/Kg			04/12/18 13:58	1
Chlorobenzene	ND		5.0	0.33	ug/Kg			04/12/18 13:58	1
Chloroethane	ND		5.0	0.38	ug/Kg			04/12/18 13:58	1
Chloroform	ND		5.0	0.23	ug/Kg			04/12/18 13:58	1
Chloromethane	ND		5.0	0.38	ug/Kg			04/12/18 13:58	1
cis-1,3-Dichloropropene	ND		5.0	0.26	ug/Kg			04/12/18 13:58	1
Dibromochloromethane	ND		5.0	0.30	ug/Kg			04/12/18 13:58	1
1,1-Dichloroethane	ND		5.0	0.33	ug/Kg			04/12/18 13:58	1
1,2-Dichloroethane	ND		5.0	0.29	ug/Kg			04/12/18 13:58	1
1,1-Dichloroethene	ND		5.0	0.54	ug/Kg			04/12/18 13:58	1
1,2-Dichloroethene, Total	ND		10	0.42	ug/Kg			04/12/18 13:58	1
1,2-Dichloropropane	ND		5.0	0.31	ug/Kg			04/12/18 13:58	1
Ethylbenzene	ND		5.0	0.27	ug/Kg			04/12/18 13:58	1
2-Hexanone	ND		20	0.58	ug/Kg			04/12/18 13:58	1
Methylene Chloride	ND		5.0	0.24	ug/Kg			04/12/18 13:58	1
4-Methyl-2-pentanone	ND		20	0.89	ug/Kg			04/12/18 13:58	1
Styrene	ND		5.0	0.27	ug/Kg			04/12/18 13:58	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/Kg			04/12/18 13:58	1
Tetrachloroethene	ND		5.0	0.37	ug/Kg			04/12/18 13:58	1
Toluene	ND		5.0	0.34	ug/Kg			04/12/18 13:58	1
trans-1,3-Dichloropropene	ND		5.0	0.21	ug/Kg			04/12/18 13:58	1
1,1,1-Trichloroethane	ND		5.0	0.23	ug/Kg			04/12/18 13:58	1
1,1,2-Trichloroethane	ND		5.0	0.39	ug/Kg			04/12/18 13:58	1
Trichloroethene	ND		5.0	0.41	ug/Kg			04/12/18 13:58	1
Vinyl chloride	ND		5.0	0.28	ug/Kg			04/12/18 13:58	1
Xylenes, Total	ND		10	0.40	ug/Kg			04/12/18 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*61 - 132*		*04/12/18 13:58*	*1*
Dibromofluoromethane (Surr)	*88*		*43 - 131*		*04/12/18 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*72*		*61 - 127*		*04/12/18 13:58*	*1*
Toluene-d8 (Surr)	*90*		*66 - 125*		*04/12/18 13:58*	*1*

Lab Sample ID: LCS 240-322298/5
Matrix: Solid
Analysis Batch: 322298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	68.3		ug/Kg		68	24 - 125
Benzene	50.0	54.0		ug/Kg		108	77 - 120
Bromodichloromethane	50.0	47.8		ug/Kg		96	61 - 132
Bromoform	50.0	54.1		ug/Kg		108	40 - 140
Bromomethane	20.0	20.0		ug/Kg		100	10 - 153
2-Butanone	100	64.2		ug/Kg		64	51 - 120
Carbon disulfide	50.0	51.3		ug/Kg		103	17 - 163
Carbon tetrachloride	50.0	47.9		ug/Kg		96	43 - 144
Chlorobenzene	50.0	52.3		ug/Kg		105	76 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-322298/5
Matrix: Solid
Analysis Batch: 322298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	20.0	19.5		ug/Kg		97	10 - 166
Chloroform	50.0	49.2		ug/Kg		98	74 - 120
Chloromethane	20.0	13.9		ug/Kg		70	41 - 124
cis-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	66 - 126
Dibromochloromethane	50.0	45.7		ug/Kg		91	46 - 125
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	72 - 120
1,2-Dichloroethane	50.0	39.3		ug/Kg		79	71 - 120
1,1-Dichloroethene	50.0	51.8		ug/Kg		104	58 - 130
1,2-Dichloroethene, Total	100	113		ug/Kg		113	77 - 120
1,2-Dichloropropane	50.0	49.7		ug/Kg		99	78 - 122
Ethylbenzene	50.0	57.6		ug/Kg		115	76 - 120
2-Hexanone	100	72.6		ug/Kg		73	52 - 129
Methylene Chloride	50.0	51.2		ug/Kg		102	64 - 126
4-Methyl-2-pentanone	100	72.4		ug/Kg		72	65 - 131
Styrene	50.0	57.8		ug/Kg		116	80 - 120
1,1,2,2-Tetrachloroethane	50.0	54.6		ug/Kg		109	78 - 120
Tetrachloroethene	50.0	53.0		ug/Kg		106	68 - 122
Toluene	50.0	52.4		ug/Kg		105	74 - 120
trans-1,3-Dichloropropene	50.0	43.3		ug/Kg		87	55 - 121
1,1,1-Trichloroethane	50.0	48.7		ug/Kg		97	60 - 136
1,1,2-Trichloroethane	50.0	50.9		ug/Kg		102	80 - 120
Trichloroethene	50.0	55.2		ug/Kg		110	73 - 123
Vinyl chloride	20.0	17.9		ug/Kg		89	49 - 131
Xylenes, Total	100	112		ug/Kg		112	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*61 - 132*
Dibromofluoromethane (Surr)	*92*		*43 - 131*
1,2-Dichloroethane-d4 (Surr)	*70*		*61 - 127*
Toluene-d8 (Surr)	*92*		*66 - 125*

Lab Sample ID: MB 240-323134/6
Matrix: Water
Analysis Batch: 323134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	1.8	ug/L			04/19/18 10:31	1
Benzene	ND		1.0	0.28	ug/L			04/19/18 10:31	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/19/18 10:31	1
Bromoform	ND		1.0	0.43	ug/L			04/19/18 10:31	1
Bromomethane	ND		1.0	0.42	ug/L			04/19/18 10:31	1
2-Butanone	ND		10	1.0	ug/L			04/19/18 10:31	1
Carbon disulfide	ND		1.0	0.34	ug/L			04/19/18 10:31	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			04/19/18 10:31	1
Chlorobenzene	ND		1.0	0.32	ug/L			04/19/18 10:31	1
Chloroethane	ND		1.0	0.41	ug/L			04/19/18 10:31	1
Chloroform	ND		1.0	0.31	ug/L			04/19/18 10:31	1
Chloromethane	ND		1.0	0.43	ug/L			04/19/18 10:31	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-323134/6
Matrix: Water
Analysis Batch: 323134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			04/19/18 10:31	1
Dibromochloromethane	ND		1.0	0.25	ug/L			04/19/18 10:31	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			04/19/18 10:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			04/19/18 10:31	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			04/19/18 10:31	1
1,2-Dichloroethene, Total	ND		2.0	0.56	ug/L			04/19/18 10:31	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			04/19/18 10:31	1
Ethylbenzene	ND		1.0	0.26	ug/L			04/19/18 10:31	1
2-Hexanone	ND		10	1.2	ug/L			04/19/18 10:31	1
Methylene Chloride	1.20		1.0	0.53	ug/L			04/19/18 10:31	1
4-Methyl-2-pentanone	ND		10	0.71	ug/L			04/19/18 10:31	1
Styrene	ND		1.0	0.23	ug/L			04/19/18 10:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			04/19/18 10:31	1
Tetrachloroethene	ND		1.0	0.30	ug/L			04/19/18 10:31	1
Toluene	ND		1.0	0.23	ug/L			04/19/18 10:31	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			04/19/18 10:31	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			04/19/18 10:31	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			04/19/18 10:31	1
Trichloroethene	ND		1.0	0.33	ug/L			04/19/18 10:31	1
Vinyl chloride	ND		1.0	0.45	ug/L			04/19/18 10:31	1
Xylenes, Total	ND		2.0	0.24	ug/L			04/19/18 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*69 - 120*		*04/19/18 10:31*	*1*
Dibromofluoromethane (Surr)	*106*		*69 - 124*		*04/19/18 10:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 138*		*04/19/18 10:31*	*1*
Toluene-d8 (Surr)	*110*		*73 - 120*		*04/19/18 10:31*	*1*

Lab Sample ID: LCS 240-323134/4
Matrix: Water
Analysis Batch: 323134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.2		ug/L		81	35 - 131
Benzene	10.0	10.6		ug/L		106	79 - 120
Bromodichloromethane	10.0	10.3		ug/L		103	79 - 125
Bromoform	10.0	10.2		ug/L		102	55 - 145
Bromomethane	10.0	14.3		ug/L		143	17 - 158
2-Butanone	20.0	20.9		ug/L		105	43 - 149
Carbon disulfide	10.0	9.18		ug/L		92	49 - 141
Carbon tetrachloride	10.0	8.32		ug/L		83	55 - 171
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
Chloroethane	10.0	12.9		ug/L		129	10 - 149
Chloroform	10.0	11.4		ug/L		114	80 - 120
Chloromethane	10.0	10.6		ug/L		106	59 - 124
cis-1,3-Dichloropropene	10.0	11.0		ug/L		110	75 - 120
Dibromochloromethane	10.0	12.2		ug/L		122	64 - 129
1,1-Dichloroethane	10.0	10.8		ug/L		108	74 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-323134/4
Matrix: Water
Analysis Batch: 323134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	10.0	11.3		ug/L		113	68 - 133
1,1-Dichloroethene	10.0	8.62		ug/L		86	65 - 127
1,2-Dichloroethene, Total	20.0	21.7		ug/L		109	76 - 121
1,2-Dichloropropane	10.0	11.4		ug/L		114	78 - 127
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
2-Hexanone	20.0	20.4		ug/L		102	28 - 169
Methylene Chloride	10.0	11.7		ug/L		117	64 - 140
4-Methyl-2-pentanone	20.0	20.9		ug/L		105	53 - 144
Styrene	10.0	9.31		ug/L		93	80 - 121
1,1,2,2-Tetrachloroethane	10.0	11.4		ug/L		114	58 - 122
Tetrachloroethene	10.0	11.3		ug/L		113	80 - 122
Toluene	10.0	11.3		ug/L		113	78 - 120
trans-1,3-Dichloropropene	10.0	11.2		ug/L		112	67 - 120
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	64 - 147
1,1,2-Trichloroethane	10.0	12.6	*	ug/L		126	76 - 121
Trichloroethene	10.0	10.9		ug/L		109	76 - 124
Vinyl chloride	10.0	10.7		ug/L		107	65 - 124
Xylenes, Total	20.0	19.6		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*69 - 120*
Dibromofluoromethane (Surr)	*105*		*69 - 124*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 138*
Toluene-d8 (Surr)	*112*		*73 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-322049/7-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		04/11/18 08:29	04/12/18 13:24	1
Acenaphthylene	ND		0.20	0.020	ug/L		04/11/18 08:29	04/12/18 13:24	1
Anthracene	ND		0.20	0.031	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[a]anthracene	ND		0.20	0.059	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[a]pyrene	ND		0.20	0.030	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[b]fluoranthene	ND		0.20	0.059	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[g,h,i]perylene	ND		0.20	0.050	ug/L		04/11/18 08:29	04/12/18 13:24	1
Benzo[k]fluoranthene	ND		0.20	0.048	ug/L		04/11/18 08:29	04/12/18 13:24	1
Bis(2-chloroethoxy)methane	ND		1.0	0.037	ug/L		04/11/18 08:29	04/12/18 13:24	1
Bis(2-chloroethyl)ether	ND		1.0	0.19	ug/L		04/11/18 08:29	04/12/18 13:24	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.5	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Bromophenyl phenyl ether	ND		2.0	0.35	ug/L		04/11/18 08:29	04/12/18 13:24	1
Butylbenzylphthalate	ND		2.0	0.22	ug/L		04/11/18 08:29	04/12/18 13:24	1
Carbazole	ND		1.0	0.11	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Chloroaniline	ND		2.0	0.15	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Chloro-3-methylphenol	ND		2.0	0.28	ug/L		04/11/18 08:29	04/12/18 13:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-322049/7-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		1.0	0.12	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Chlorophenol	ND		1.0	0.13	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Chlorophenyl phenyl ether	ND		2.0	0.29	ug/L		04/11/18 08:29	04/12/18 13:24	1
Chrysene	ND		0.20	0.035	ug/L		04/11/18 08:29	04/12/18 13:24	1
Dibenz(a,h)anthracene	ND		0.20	0.040	ug/L		04/11/18 08:29	04/12/18 13:24	1
Dibenzofuran	ND		1.0	0.14	ug/L		04/11/18 08:29	04/12/18 13:24	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L		04/11/18 08:29	04/12/18 13:24	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L		04/11/18 08:29	04/12/18 13:24	1
1,4-Dichlorobenzene	ND		1.0	0.15	ug/L		04/11/18 08:29	04/12/18 13:24	1
3,3'-Dichlorobenzidine	ND		5.0	0.35	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4-Dichlorophenol	ND		2.0	0.29	ug/L		04/11/18 08:29	04/12/18 13:24	1
Diethyl phthalate	3.36		2.0	0.13	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4-Dimethylphenol	ND		2.0	0.31	ug/L		04/11/18 08:29	04/12/18 13:24	1
Dimethyl phthalate	ND		2.0	0.10	ug/L		04/11/18 08:29	04/12/18 13:24	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		04/11/18 08:29	04/12/18 13:24	1
4,6-Dinitro-2-methylphenol	ND		5.0	0.53	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4-Dinitrophenol	ND		40	6.1	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4-Dinitrotoluene	ND		5.0	0.26	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,6-Dinitrotoluene	ND		5.0	0.24	ug/L		04/11/18 08:29	04/12/18 13:24	1
Di-n-octyl phthalate	ND		2.0	0.37	ug/L		04/11/18 08:29	04/12/18 13:24	1
Fluoranthene	ND		0.20	0.027	ug/L		04/11/18 08:29	04/12/18 13:24	1
Fluorene	ND		0.20	0.034	ug/L		04/11/18 08:29	04/12/18 13:24	1
Hexachlorobenzene	ND		1.0	0.12	ug/L		04/11/18 08:29	04/12/18 13:24	1
Hexachlorobutadiene	ND		1.0	0.14	ug/L		04/11/18 08:29	04/12/18 13:24	1
Hexachlorocyclopentadiene	ND		10	2.5	ug/L		04/11/18 08:29	04/12/18 13:24	1
Hexachloroethane	ND		1.0	0.22	ug/L		04/11/18 08:29	04/12/18 13:24	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.048	ug/L		04/11/18 08:29	04/12/18 13:24	1
Isophorone	ND		1.0	0.042	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Methylnaphthalene	ND		0.20	0.037	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Methylphenol	ND		1.0	0.19	ug/L		04/11/18 08:29	04/12/18 13:24	1
3 & 4 Methylphenol	ND		2.0	0.34	ug/L		04/11/18 08:29	04/12/18 13:24	1
Naphthalene	ND		0.20	0.043	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Nitroaniline	ND		2.0	0.31	ug/L		04/11/18 08:29	04/12/18 13:24	1
3-Nitroaniline	ND		2.0	0.27	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Nitroaniline	ND		2.0	0.24	ug/L		04/11/18 08:29	04/12/18 13:24	1
Nitrobenzene	ND		1.0	0.12	ug/L		04/11/18 08:29	04/12/18 13:24	1
2-Nitrophenol	ND		2.0	0.21	ug/L		04/11/18 08:29	04/12/18 13:24	1
4-Nitrophenol	ND		5.0	0.59	ug/L		04/11/18 08:29	04/12/18 13:24	1
N-Nitrosodi-n-propylamine	ND		1.0	0.16	ug/L		04/11/18 08:29	04/12/18 13:24	1
N-Nitrosodiphenylamine	ND		1.0	0.11	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.18	ug/L		04/11/18 08:29	04/12/18 13:24	1
Pentachlorophenol	ND		40	5.5	ug/L		04/11/18 08:29	04/12/18 13:24	1
Phenanthrene	ND		0.20	0.031	ug/L		04/11/18 08:29	04/12/18 13:24	1
Phenol	ND		1.0	0.15	ug/L		04/11/18 08:29	04/12/18 13:24	1
Pyrene	ND		0.20	0.028	ug/L		04/11/18 08:29	04/12/18 13:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.16	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4,5-Trichlorophenol	ND		5.0	0.37	ug/L		04/11/18 08:29	04/12/18 13:24	1
2,4,6-Trichlorophenol	ND		5.0	0.26	ug/L		04/11/18 08:29	04/12/18 13:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-322049/7-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322049

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*32 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
2-Fluorophenol (Surr)	*50*		*17 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
Nitrobenzene-d5 (Surr)	*62*		*35 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
Phenol-d5 (Surr)	*42*		*15 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
Terphenyl-d14 (Surr)	*82*		*28 - 128*	*04/11/18 08:29*	*04/12/18 13:24*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*33 - 120*	*04/11/18 08:29*	*04/12/18 13:24*	*1*

Lab Sample ID: LCS 240-322049/8-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	24.4		ug/L		76	59 - 120
Acenaphthylene	32.0	25.5		ug/L		80	59 - 120
Anthracene	32.0	26.5		ug/L		83	59 - 120
Benzo[a]anthracene	32.0	27.1		ug/L		85	60 - 120
Benzo[a]pyrene	32.0	27.3		ug/L		85	61 - 120
Benzo[b]fluoranthene	32.0	26.4		ug/L		82	62 - 120
Benzo[g,h,i]perylene	32.0	26.3		ug/L		82	61 - 120
Benzo[k]fluoranthene	32.0	27.5		ug/L		86	60 - 120
Bis(2-chloroethoxy)methane	32.0	25.2		ug/L		79	60 - 120
Bis(2-chloroethyl)ether	32.0	24.5		ug/L		76	52 - 120
Bis(2-ethylhexyl) phthalate	32.0	27.6		ug/L		86	59 - 120
4-Bromophenyl phenyl ether	32.0	25.8		ug/L		81	62 - 120
Butylbenzylphthalate	32.0	26.9		ug/L		84	53 - 120
Carbazole	32.0	26.8		ug/L		84	62 - 121
4-Chloroaniline	32.0	14.0		ug/L		44	10 - 142
4-Chloro-3-methylphenol	32.0	29.1		ug/L		91	63 - 120
2-Chloronaphthalene	32.0	25.2		ug/L		79	58 - 120
2-Chlorophenol	32.0	25.6		ug/L		80	61 - 120
4-Chlorophenyl phenyl ether	32.0	24.2		ug/L		76	62 - 120
Chrysene	32.0	26.0		ug/L		81	60 - 120
Dibenz(a,h)anthracene	32.0	26.8		ug/L		84	62 - 120
Dibenzofuran	32.0	24.9		ug/L		78	59 - 120
1,2-Dichlorobenzene	32.0	23.6		ug/L		74	52 - 120
1,3-Dichlorobenzene	32.0	22.6		ug/L		71	49 - 120
1,4-Dichlorobenzene	32.0	22.9		ug/L		71	50 - 120
3,3'-Dichlorobenzidine	64.0	54.5		ug/L		85	54 - 120
2,4-Dichlorophenol	32.0	26.4		ug/L		83	57 - 120
Diethyl phthalate	32.0	25.0		ug/L		78	53 - 120
2,4-Dimethylphenol	32.0	26.3		ug/L		82	49 - 120
Dimethyl phthalate	32.0	24.8		ug/L		78	51 - 120
Di-n-butyl phthalate	32.0	27.7		ug/L		87	58 - 120
4,6-Dinitro-2-methylphenol	64.0	46.7		ug/L		73	43 - 120
2,4-Dinitrophenol	64.0	36.0	J	ug/L		56	24 - 120
2,4-Dinitrotoluene	32.0	26.4		ug/L		82	67 - 120
2,6-Dinitrotoluene	32.0	26.1		ug/L		82	65 - 120
Di-n-octyl phthalate	32.0	27.0		ug/L		84	58 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-322049/8-A
Matrix: Water
Analysis Batch: 322270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	32.0	27.6		ug/L		86	62 - 120
Fluorene	32.0	24.0		ug/L		75	61 - 120
Hexachlorobenzene	32.0	26.0		ug/L		81	58 - 120
Hexachlorobutadiene	32.0	22.9		ug/L		72	48 - 120
Hexachlorocyclopentadiene	32.0	23.2		ug/L		72	30 - 120
Hexachloroethane	32.0	23.1		ug/L		72	44 - 120
Indeno[1,2,3-cd]pyrene	32.0	26.9		ug/L		84	62 - 120
Isophorone	32.0	25.4		ug/L		79	58 - 120
2-Methylnaphthalene	32.0	25.0		ug/L		78	58 - 120
2-Methylphenol	32.0	26.2		ug/L		82	55 - 120
3 & 4 Methylphenol	32.0	25.0		ug/L		78	50 - 120
Naphthalene	32.0	24.0		ug/L		75	56 - 120
2-Nitroaniline	32.0	26.2		ug/L		82	60 - 120
3-Nitroaniline	32.0	30.1		ug/L		94	21 - 199
4-Nitroaniline	32.0	32.0		ug/L		100	54 - 135
Nitrobenzene	32.0	25.1		ug/L		78	60 - 120
2-Nitrophenol	32.0	25.7		ug/L		80	63 - 120
4-Nitrophenol	64.0	36.4		ug/L		57	24 - 120
N-Nitrosodi-n-propylamine	32.0	25.3		ug/L		79	55 - 120
N-Nitrosodiphenylamine	32.0	26.2		ug/L		82	58 - 120
2,2'-oxybis[1-chloropropane]	32.0	25.2		ug/L		79	50 - 120
Pentachlorophenol	64.0	48.5		ug/L		76	30 - 120
Phenanthrene	32.0	25.6		ug/L		80	59 - 120
Phenol	32.0	19.1		ug/L		60	25 - 120
Pyrene	32.0	26.7		ug/L		84	59 - 120
1,2,4-Trichlorobenzene	32.0	23.6		ug/L		74	53 - 120
2,4,5-Trichlorophenol	32.0	27.5		ug/L		86	59 - 120
2,4,6-Trichlorophenol	32.0	27.8		ug/L		87	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*32 - 120*
2-Fluorophenol (Surr)	*66*		*17 - 120*
Nitrobenzene-d5 (Surr)	*81*		*35 - 120*
Phenol-d5 (Surr)	*60*		*15 - 120*
Terphenyl-d14 (Surr)	*89*		*28 - 128*
2,4,6-Tribromophenol (Surr)	*84*		*33 - 120*

Lab Sample ID: MB 240-322112/9-A
Matrix: Solid
Analysis Batch: 322400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		6.7	0.76	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Acenaphthylene	ND		6.7	0.35	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Anthracene	ND		6.7	0.78	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Benzo[a]anthracene	ND		6.7	0.63	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Benzo[a]pyrene	ND		6.7	0.64	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Benzo[b]fluoranthene	ND		6.7	0.59	ug/Kg		04/11/18 11:47	04/13/18 12:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-322112/9-A
Matrix: Solid
Analysis Batch: 322400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		6.7	0.35	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Benzo[k]fluoranthene	ND		6.7	0.68	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Bis(2-chloroethoxy)methane	ND		100	22	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Bis(2-chloroethyl)ether	ND		100	2.0	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Bis(2-ethylhexyl) phthalate	ND		70	19	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
4-Bromophenyl phenyl ether	ND		50	13	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Butylbenzylphthalate	ND		70	10	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Carbazole	ND		50	27	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
4-Chloroaniline	ND		150	17	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
4-Chloro-3-methylphenol	ND		150	21	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2-Chloronaphthalene	ND		50	0.45	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2-Chlorophenol	ND		50	8.2	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
4-Chlorophenyl phenyl ether	ND		50	13	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Chrysene	ND		6.7	1.1	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Dibenz(a,h)anthracene	ND		6.7	0.66	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Dibenzofuran	ND		50	0.66	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
1,2-Dichlorobenzene	ND		50	9.7	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
1,3-Dichlorobenzene	ND		50	11	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
1,4-Dichlorobenzene	ND		50	20	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
3,3'-Dichlorobenzidine	ND		100	18	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2,4-Dichlorophenol	ND		150	20	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Diethyl phthalate	ND		70	16	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2,4-Dimethylphenol	ND		150	20	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Dimethyl phthalate	ND		70	17	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Di-n-butyl phthalate	ND		70	15	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
4,6-Dinitro-2-methylphenol	ND		150	9.2	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2,4-Dinitrophenol	ND		330	21	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2,4-Dinitrotoluene	ND		200	17	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2,6-Dinitrotoluene	ND		200	21	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Di-n-octyl phthalate	ND		70	7.9	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Fluoranthene	ND		6.7	0.55	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Fluorene	ND		6.7	0.53	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Hexachlorobenzene	ND		6.7	2.1	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Hexachlorobutadiene	ND		50	5.6	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Hexachlorocyclopentadiene	ND		330	8.1	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Hexachloroethane	ND		50	9.0	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Indeno[1,2,3-cd]pyrene	ND		6.7	0.35	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Isophorone	ND		50	13	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2-Methylnaphthalene	ND		6.7	0.50	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2-Methylphenol	ND		200	11	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
3 & 4 Methylphenol	ND		400	20	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Naphthalene	ND		6.7	0.82	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2-Nitroaniline	ND		200	9.1	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
3-Nitroaniline	ND		200	16	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
4-Nitroaniline	ND		200	26	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Nitrobenzene	ND		100	2.2	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2-Nitrophenol	ND		50	8.3	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
4-Nitrophenol	ND		330	17	ug/Kg		04/11/18 11:47	04/13/18 12:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-322112/9-A
Matrix: Solid
Analysis Batch: 322400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		50	6.3	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
N-Nitrosodiphenylamine	ND		50	21	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2,2'-oxybis[1-chloropropane]	ND		100	9.5	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Pentachlorophenol	ND		150	9.1	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Phenanthrene	ND		6.7	0.73	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Phenol	29.7	J	50	7.3	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
Pyrene	ND		6.7	0.44	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
1,2,4-Trichlorobenzene	ND		50	3.5	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2,4,5-Trichlorophenol	ND		150	25	ug/Kg		04/11/18 11:47	04/13/18 12:39	1
2,4,6-Trichlorophenol	ND		150	8.9	ug/Kg		04/11/18 11:47	04/13/18 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*32 - 120*	*04/11/18 11:47*	*04/13/18 12:39*	*1*
2-Fluorophenol (Surr)	*56*		*29 - 120*	*04/11/18 11:47*	*04/13/18 12:39*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 120*	*04/11/18 11:47*	*04/13/18 12:39*	*1*
Phenol-d5 (Surr)	*58*		*29 - 120*	*04/11/18 11:47*	*04/13/18 12:39*	*1*
Terphenyl-d14 (Surr)	*79*		*41 - 120*	*04/11/18 11:47*	*04/13/18 12:39*	*1*
2,4,6-Tribromophenol (Surr)	*43*		*10 - 120*	*04/11/18 11:47*	*04/13/18 12:39*	*1*

Lab Sample ID: LCS 240-322112/10-A
Matrix: Solid
Analysis Batch: 322400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	487		ug/Kg		73	48 - 120
Acenaphthylene	667	470		ug/Kg		71	46 - 120
Anthracene	667	567		ug/Kg		85	51 - 120
Benzo[a]anthracene	667	550		ug/Kg		82	53 - 120
Benzo[a]pyrene	667	562		ug/Kg		84	50 - 120
Benzo[b]fluoranthene	667	575		ug/Kg		86	48 - 120
Benzo[g,h,i]perylene	667	547		ug/Kg		82	50 - 120
Benzo[k]fluoranthene	667	540		ug/Kg		81	51 - 120
Bis(2-chloroethoxy)methane	667	447		ug/Kg		67	50 - 120
Bis(2-chloroethyl)ether	667	454		ug/Kg		68	48 - 120
Bis(2-ethylhexyl) phthalate	667	588		ug/Kg		88	52 - 120
4-Bromophenyl phenyl ether	667	523		ug/Kg		78	51 - 120
Butylbenzylphthalate	667	564		ug/Kg		85	53 - 120
Carbazole	667	581		ug/Kg		87	56 - 120
4-Chloroaniline	667	438		ug/Kg		66	37 - 120
4-Chloro-3-methylphenol	667	498		ug/Kg		75	47 - 120
2-Chloronaphthalene	667	484		ug/Kg		73	49 - 120
2-Chlorophenol	667	467		ug/Kg		70	50 - 120
4-Chlorophenyl phenyl ether	667	504		ug/Kg		76	49 - 120
Chrysene	667	548		ug/Kg		82	54 - 120
Dibenz(a,h)anthracene	667	565		ug/Kg		85	48 - 120
Dibenzofuran	667	517		ug/Kg		78	49 - 120
1,2-Dichlorobenzene	667	420		ug/Kg		63	48 - 120
1,3-Dichlorobenzene	667	405		ug/Kg		61	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-322112/10-A
Matrix: Solid
Analysis Batch: 322400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	667	407		ug/Kg		61	48 - 120
3,3'-Dichlorobenzidine	1330	963		ug/Kg		72	40 - 120
2,4-Dichlorophenol	667	476		ug/Kg		71	48 - 120
Diethyl phthalate	667	549		ug/Kg		82	52 - 120
2,4-Dimethylphenol	667	487		ug/Kg		73	37 - 120
Dimethyl phthalate	667	515		ug/Kg		77	53 - 120
Di-n-butyl phthalate	667	562		ug/Kg		84	56 - 120
4,6-Dinitro-2-methylphenol	1330	926		ug/Kg		69	18 - 120
2,4-Dinitrophenol	1330	575		ug/Kg		43	10 - 120
2,4-Dinitrotoluene	667	530		ug/Kg		80	53 - 120
2,6-Dinitrotoluene	667	505		ug/Kg		76	54 - 120
Di-n-octyl phthalate	667	535		ug/Kg		80	42 - 120
Fluoranthene	667	606		ug/Kg		91	53 - 120
Fluorene	667	518		ug/Kg		78	50 - 120
Hexachlorobenzene	667	498		ug/Kg		75	46 - 120
Hexachlorobutadiene	667	487		ug/Kg		73	44 - 120
Hexachlorocyclopentadiene	667	348		ug/Kg		52	14 - 120
Hexachloroethane	667	396		ug/Kg		59	45 - 120
Indeno[1,2,3-cd]pyrene	667	552		ug/Kg		83	49 - 120
Isophorone	667	450		ug/Kg		68	47 - 120
2-Methylnaphthalene	667	494		ug/Kg		74	49 - 120
2-Methylphenol	667	439		ug/Kg		66	49 - 120
3 & 4 Methylphenol	667	434		ug/Kg		65	50 - 120
Naphthalene	667	465		ug/Kg		70	48 - 120
2-Nitroaniline	667	472		ug/Kg		71	46 - 120
3-Nitroaniline	667	475		ug/Kg		71	48 - 120
4-Nitroaniline	667	550		ug/Kg		82	49 - 120
Nitrobenzene	667	426		ug/Kg		64	48 - 120
2-Nitrophenol	667	471		ug/Kg		71	46 - 120
4-Nitrophenol	1330	1050		ug/Kg		79	42 - 120
N-Nitrosodi-n-propylamine	667	429		ug/Kg		64	49 - 120
N-Nitrosodiphenylamine	667	531		ug/Kg		80	53 - 120
2,2'-oxybis[1-chloropropane]	667	436		ug/Kg		65	37 - 120
Pentachlorophenol	1330	841		ug/Kg		63	14 - 120
Phenanthrene	667	553		ug/Kg		83	52 - 120
Phenol	667	506		ug/Kg		76	49 - 120
Pyrene	667	576		ug/Kg		86	55 - 120
1,2,4-Trichlorobenzene	667	493		ug/Kg		74	48 - 120
2,4,5-Trichlorophenol	667	373		ug/Kg		56	34 - 120
2,4,6-Trichlorophenol	667	245		ug/Kg		37	19 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*32 - 120*
2-Fluorophenol (Surr)	*72*		*29 - 120*
Nitrobenzene-d5 (Surr)	*68*		*30 - 120*
Phenol-d5 (Surr)	*74*		*29 - 120*
Terphenyl-d14 (Surr)	*88*		*41 - 120*
2,4,6-Tribromophenol (Surr)	*42*		*10 - 120*

QC Sample Results

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Lab Sample ID: 240-93866-1 MS
Matrix: Solid
Analysis Batch: 322400

Client Sample ID: SD-041018-AG-020
Prep Type: Total/NA
Prep Batch: 322112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND	F1	1070	300	F1	ug/Kg	☼	28	36 - 120
Acenaphthylene	5.5	J F1	1070	294	F1	ug/Kg	☼	27	35 - 120
Anthracene	ND	F1	1070	322	F1	ug/Kg	☼	30	42 - 120
Benzo[a]anthracene	23	F1	1070	352	F1	ug/Kg	☼	31	35 - 120
Benzo[a]pyrene	23	F1	1070	354	F1	ug/Kg	☼	31	33 - 120
Benzo[b]fluoranthene	48		1070	364		ug/Kg	☼	29	26 - 120
Benzo[g,h,i]perylene	100		1070	455		ug/Kg	☼	33	16 - 120
Benzo[k]fluoranthene	12	F1	1070	323	F1	ug/Kg	☼	29	33 - 120
Bis(2-chloroethoxy)methane	ND	F2 F1	1070	282	F1	ug/Kg	☼	26	36 - 120
Bis(2-chloroethyl)ether	ND	F1	1070	256	F1	ug/Kg	☼	24	33 - 120
Bis(2-ethylhexyl) phthalate	ND	F1	1070	393	F1	ug/Kg	☼	37	40 - 120
4-Bromophenyl phenyl ether	ND	F1	1070	301	F1	ug/Kg	☼	28	44 - 120
Butylbenzylphthalate	ND	F1	1070	339	F1	ug/Kg	☼	32	46 - 120
Carbazole	ND	F1	1070	338	F1	ug/Kg	☼	32	35 - 120
4-Chloroaniline	ND		1070	180	J	ug/Kg	☼	17	15 - 120
4-Chloro-3-methylphenol	ND	F2 F1	1070	333		ug/Kg	☼	31	31 - 120
2-Chloronaphthalene	ND	F2 F1	1070	303	F1	ug/Kg	☼	28	35 - 120
2-Chlorophenol	ND	F1	1070	280	F1	ug/Kg	☼	26	30 - 120
4-Chlorophenyl phenyl ether	ND	F1	1070	289	F1	ug/Kg	☼	27	41 - 120
Chrysene	45	F1	1070	376	F1	ug/Kg	☼	31	33 - 120
Dibenz(a,h)anthracene	ND		1070	338		ug/Kg	☼	32	30 - 120
Dibenzofuran	60	J F1	1070	388	F1	ug/Kg	☼	31	37 - 120
1,2-Dichlorobenzene	ND	F1	1070	230	F1	ug/Kg	☼	21	33 - 120
1,3-Dichlorobenzene	ND	F1	1070	177	F1	ug/Kg	☼	17	32 - 120
1,4-Dichlorobenzene	ND	F1	1070	206	F1	ug/Kg	☼	19	28 - 120
3,3'-Dichlorobenzidine	ND	F1	2150	ND	F1	ug/Kg	☼	0	10 - 120
2,4-Dichlorophenol	ND	F1	1070	309	F1	ug/Kg	☼	29	32 - 120
Diethyl phthalate	ND	F1	1070	304	F1	ug/Kg	☼	28	44 - 120
2,4-Dimethylphenol	ND	F1	1070	302		ug/Kg	☼	28	28 - 120
Dimethyl phthalate	ND	F1	1070	314	F1	ug/Kg	☼	29	42 - 120
Di-n-butyl phthalate	ND	F1	1070	325	F1	ug/Kg	☼	30	45 - 120
4,6-Dinitro-2-methylphenol	ND	F2	2150	551		ug/Kg	☼	26	10 - 120
2,4-Dinitrophenol	ND	F2 F1	2150	427	J	ug/Kg	☼	20	10 - 120
2,4-Dinitrotoluene	ND	F1	1070	281	J F1	ug/Kg	☼	26	38 - 120
2,6-Dinitrotoluene	ND	F1	1070	311	J F1	ug/Kg	☼	29	43 - 120
Di-n-octyl phthalate	ND	F1	1070	325	F1	ug/Kg	☼	30	35 - 120
Fluoranthene	46		1070	405		ug/Kg	☼	33	26 - 121
Fluorene	ND	F1	1070	297	F1	ug/Kg	☼	28	36 - 120
Hexachlorobenzene	ND	F1	1070	277	F1	ug/Kg	☼	26	36 - 120
Hexachlorobutadiene	ND	F1	1070	241	F1	ug/Kg	☼	23	31 - 120
Hexachlorocyclopentadiene	ND	F1	1070	ND	F1	ug/Kg	☼	0	10 - 120
Hexachloroethane	ND	F1	1070	165		ug/Kg	☼	15	15 - 120
Indeno[1,2,3-cd]pyrene	25		1070	342		ug/Kg	☼	30	24 - 120
Isophorone	ND	F2 F1	1070	300	F1	ug/Kg	☼	28	34 - 120
2-Methylnaphthalene	260	F2 F1	1070	860		ug/Kg	☼	56	31 - 120
2-Methylphenol	ND	F1	1070	296	J F1	ug/Kg	☼	28	31 - 120
3 & 4 Methylphenol	ND	F1	1070	295	J F1	ug/Kg	☼	28	33 - 120
Naphthalene	160	F2 F1	1070	627		ug/Kg	☼	44	29 - 120
2-Nitroaniline	ND	F2 F1	1070	311	J	ug/Kg	☼	29	29 - 120
3-Nitroaniline	ND	F1	1070	128	J F1	ug/Kg	☼	12	21 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-93866-1 MS — **Client Sample ID: SD-041018-AG-020**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322400 — **Prep Batch: 322112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	ND	F1	1070	93.5	J F1	ug/Kg	☼	9	23 - 120
Nitrobenzene	ND	F1	1070	270	F1	ug/Kg	☼	25	33 - 120
2-Nitrophenol	ND	F1	1070	298		ug/Kg	☼	28	26 - 120
4-Nitrophenol	ND	F1	2150	640	F1	ug/Kg	☼	30	32 - 120
N-Nitrosodi-n-propylamine	ND	F2 F1	1070	281	F1	ug/Kg	☼	26	32 - 120
N-Nitrosodiphenylamine	ND	F1	1070	312		ug/Kg	☼	29	29 - 120
2,2'-oxybis[1-chloropropane]	ND	F2 F1	1070	269	F1	ug/Kg	☼	25	26 - 120
Pentachlorophenol	ND		2150	476		ug/Kg	☼	22	10 - 120
Phenanthrene	170		1070	572		ug/Kg	☼	37	28 - 120
Phenol	24	J F1 B	1070	295		ug/Kg	☼	25	21 - 120
Pyrene	66		1070	411		ug/Kg	☼	32	28 - 120
1,2,4-Trichlorobenzene	ND	F1	1070	254	F1	ug/Kg	☼	24	34 - 120
2,4,5-Trichlorophenol	ND		1070	324		ug/Kg	☼	30	20 - 120
2,4,6-Trichlorophenol	ND		1070	297		ug/Kg	☼	28	19 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*29*	*X*	*32 - 120*
2-Fluorophenol (Surr)	*25*	*X*	*29 - 120*
Nitrobenzene-d5 (Surr)	*27*	*X*	*30 - 120*
Phenol-d5 (Surr)	*28*	*X*	*29 - 120*
Terphenyl-d14 (Surr)	*32*	*X*	*41 - 120*
2,4,6-Tribromophenol (Surr)	*24*		*10 - 120*

Lab Sample ID: 240-93866-1 MSD — **Client Sample ID: SD-041018-AG-020**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322400 — **Prep Batch: 322112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND	F1	1060	240	F1	ug/Kg	☼	23	36 - 120	22	28
Acenaphthylene	5.5	J F1	1060	228	F1	ug/Kg	☼	21	35 - 120	25	26
Anthracene	ND	F1	1060	275	F1	ug/Kg	☼	26	42 - 120	16	32
Benzo[a]anthracene	23	F1	1060	292	F1	ug/Kg	☼	25	35 - 120	18	40
Benzo[a]pyrene	23	F1	1060	297	F1	ug/Kg	☼	26	33 - 120	17	40
Benzo[b]fluoranthene	48		1060	329		ug/Kg	☼	27	26 - 120	10	40
Benzo[g,h,i]perylene	100		1060	489		ug/Kg	☼	36	16 - 120	7	40
Benzo[k]fluoranthene	12	F1	1060	275	F1	ug/Kg	☼	25	33 - 120	16	40
Bis(2-chloroethoxy)methane	ND	F2 F1	1060	198	F2 F1	ug/Kg	☼	19	36 - 120	35	33
Bis(2-chloroethyl)ether	ND	F1	1060	179	F1	ug/Kg	☼	17	33 - 120	35	36
Bis(2-ethylhexyl) phthalate	ND	F1	1060	323	F1	ug/Kg	☼	30	40 - 120	20	28
4-Bromophenyl phenyl ether	ND	F1	1060	248	F1	ug/Kg	☼	23	44 - 120	19	40
Butylbenzylphthalate	ND	F1	1060	295	F1	ug/Kg	☼	28	46 - 120	14	39
Carbazole	ND	F1	1060	284	F1	ug/Kg	☼	27	35 - 120	18	34
4-Chloroaniline	ND		1060	176	J	ug/Kg	☼	17	15 - 120	2	36
4-Chloro-3-methylphenol	ND	F2 F1	1060	243	F2 F1	ug/Kg	☼	23	31 - 120	31	25
2-Chloronaphthalene	ND	F2 F1	1060	223	F2 F1	ug/Kg	☼	21	35 - 120	31	30
2-Chlorophenol	ND	F1	1060	198	F1	ug/Kg	☼	19	30 - 120	34	37
4-Chlorophenyl phenyl ether	ND	F1	1060	245	F1	ug/Kg	☼	23	41 - 120	16	40
Chrysene	45	F1	1060	323	F1	ug/Kg	☼	26	33 - 120	15	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-93866-1 MSD — **Client Sample ID: SD-041018-AG-020**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322400 — **Prep Batch: 322112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	ND		1060	322		ug/Kg	☼	30	30 - 120	5	40
Dibenzofuran	60	J F1	1060	310	F1	ug/Kg	☼	23	37 - 120	22	28
1,2-Dichlorobenzene	ND	F1	1060	169	F1	ug/Kg	☼	16	33 - 120	31	31
1,3-Dichlorobenzene	ND	F1	1060	158	F1	ug/Kg	☼	15	32 - 120	12	32
1,4-Dichlorobenzene	ND	F1	1060	164	F1	ug/Kg	☼	15	28 - 120	23	40
3,3'-Dichlorobenzidine	ND	F1	2120	ND	F1	ug/Kg	☼	0	10 - 120	NC	40
2,4-Dichlorophenol	ND	F1	1060	240	F1	ug/Kg	☼	23	32 - 120	25	32
Diethyl phthalate	ND	F1	1060	252	F1	ug/Kg	☼	24	44 - 120	19	26
2,4-Dimethylphenol	ND	F1	1060	239	J F1	ug/Kg	☼	23	28 - 120	23	35
Dimethyl phthalate	ND	F1	1060	238	F1	ug/Kg	☼	22	42 - 120	27	35
Di-n-butyl phthalate	ND	F1	1060	289	F1	ug/Kg	☼	27	45 - 120	12	28
4,6-Dinitro-2-methylphenol	ND	F2	2120	311	F2	ug/Kg	☼	15	10 - 120	56	40
2,4-Dinitrophenol	ND	F2 F1	2120	90.7	J F2 F1	ug/Kg	☼	4	10 - 120	130	40
2,4-Dinitrotoluene	ND	F1	1060	224	J F1	ug/Kg	☼	21	38 - 120	23	27
2,6-Dinitrotoluene	ND	F1	1060	246	J F1	ug/Kg	☼	23	43 - 120	23	31
Di-n-octyl phthalate	ND	F1	1060	284	F1	ug/Kg	☼	27	35 - 120	14	33
Fluoranthene	46		1060	349		ug/Kg	☼	29	26 - 121	15	40
Fluorene	ND	F1	1060	260	F1	ug/Kg	☼	25	36 - 120	13	28
Hexachlorobenzene	ND	F1	1060	263	F1	ug/Kg	☼	25	36 - 120	5	25
Hexachlorobutadiene	ND	F1	1060	204	F1	ug/Kg	☼	19	31 - 120	17	35
Hexachlorocyclopentadiene	ND	F1	1060	ND	F1	ug/Kg	☼	0	10 - 120	NC	40
Hexachloroethane	ND	F1	1060	126	F1	ug/Kg	☼	12	15 - 120	26	40
Indeno[1,2,3-cd]pyrene	25		1060	331		ug/Kg	☼	29	24 - 120	3	40
Isophorone	ND	F2 F1	1060	197	F2 F1	ug/Kg	☼	19	34 - 120	42	32
2-Methylnaphthalene	260	F2 F1	1060	499	F2 F1	ug/Kg	☼	22	31 - 120	53	33
2-Methylphenol	ND	F1	1060	226	J F1	ug/Kg	☼	21	31 - 120	27	36
3 & 4 Methylphenol	ND	F1	1060	234	J F1	ug/Kg	☼	22	33 - 120	23	29
Naphthalene	160	F2 F1	1060	327	F2 F1	ug/Kg	☼	16	29 - 120	63	34
2-Nitroaniline	ND	F2 F1	1060	226	J F2 F1	ug/Kg	☼	21	29 - 120	32	31
3-Nitroaniline	ND	F1	1060	114	J F1	ug/Kg	☼	11	21 - 120	11	40
4-Nitroaniline	ND	F1	1060	80.1	J F1	ug/Kg	☼	8	23 - 120	15	40
Nitrobenzene	ND	F1	1060	183	F1	ug/Kg	☼	17	33 - 120	39	40
2-Nitrophenol	ND	F1	1060	210	F1	ug/Kg	☼	20	26 - 120	35	38
4-Nitrophenol	ND	F1	2120	540	F1	ug/Kg	☼	25	32 - 120	17	31
N-Nitrosodi-n-propylamine	ND	F2 F1	1060	202	F2 F1	ug/Kg	☼	19	32 - 120	33	32
N-Nitrosodiphenylamine	ND	F1	1060	273	F1	ug/Kg	☼	26	29 - 120	13	30
2,2'-oxybis[1-chloropropane]	ND	F2 F1	1060	186	F2 F1	ug/Kg	☼	17	26 - 120	37	31
Pentachlorophenol	ND		2120	392		ug/Kg	☼	18	10 - 120	19	40
Phenanthrene	170		1060	506		ug/Kg	☼	31	28 - 120	12	40
Phenol	24	J F1 B	1060	241	F1	ug/Kg	☼	20	21 - 120	20	40
Pyrene	66		1060	377		ug/Kg	☼	29	28 - 120	9	40
1,2,4-Trichlorobenzene	ND	F1	1060	189	F1	ug/Kg	☼	18	34 - 120	30	32
2,4,5-Trichlorophenol	ND		1060	240		ug/Kg	☼	23	20 - 120	30	38
2,4,6-Trichlorophenol	ND		1060	242		ug/Kg	☼	23	19 - 120	20	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*21*	*X*	*32 - 120*
2-Fluorophenol (Surr)	*18*	*X*	*29 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-93866-1 MSD
Matrix: Solid
Analysis Batch: 322400

Client Sample ID: SD-041018-AG-020
Prep Type: Total/NA
Prep Batch: 322112

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*18*	*X*	*30 - 120*
Phenol-d5 (Surr)	*21*	*X*	*29 - 120*
Terphenyl-d14 (Surr)	*28*	*X*	*41 - 120*
2,4,6-Tribromophenol (Surr)	*22*		*10 - 120*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-93866-1 DU
Matrix: Solid
Analysis Batch: 321938

Client Sample ID: SD-041018-AG-020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	62.2			65.4		%				5	20

QC Association Summary

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

GC/MS VOA

Prep Batch: 322122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-1	SD-041018-AG-020	Total/NA	Solid	5035	
240-93866-2	SD-041018-AG-021	Total/NA	Solid	5035	
240-93866-1 MS	SD-041018-AG-020	Total/NA	Solid	5035	
240-93866-1 MSD	SD-041018-AG-020	Total/NA	Solid	5035	

Analysis Batch: 322298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-1	SD-041018-AG-020	Total/NA	Solid	8260C	322122
240-93866-2	SD-041018-AG-021	Total/NA	Solid	8260C	322122
MB 240-322298/6	Method Blank	Total/NA	Solid	8260C	
LCS 240-322298/5	Lab Control Sample	Total/NA	Solid	8260C	
240-93866-1 MS	SD-041018-AG-020	Total/NA	Solid	8260C	322122
240-93866-1 MSD	SD-041018-AG-020	Total/NA	Solid	8260C	322122

Analysis Batch: 323134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-3	RB-041018-AG-022	Total/NA	Water	8260C	
240-93866-4	TRIP BLANK	Total/NA	Water	8260C	
MB 240-323134/6	Method Blank	Total/NA	Water	8260C	
LCS 240-323134/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 322049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-3	RB-041018-AG-022	Total/NA	Water	3510C	
MB 240-322049/7-A	Method Blank	Total/NA	Water	3510C	
LCS 240-322049/8-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 322112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-1	SD-041018-AG-020	Total/NA	Solid	3540C	
240-93866-2	SD-041018-AG-021	Total/NA	Solid	3540C	
MB 240-322112/9-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-322112/10-A	Lab Control Sample	Total/NA	Solid	3540C	
240-93866-1 MS	SD-041018-AG-020	Total/NA	Solid	3540C	
240-93866-1 MSD	SD-041018-AG-020	Total/NA	Solid	3540C	

Analysis Batch: 322270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-3	RB-041018-AG-022	Total/NA	Water	8270D	322049
MB 240-322049/7-A	Method Blank	Total/NA	Water	8270D	322049
LCS 240-322049/8-A	Lab Control Sample	Total/NA	Water	8270D	322049

Analysis Batch: 322400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-1	SD-041018-AG-020	Total/NA	Solid	8270D	322112
240-93866-2	SD-041018-AG-021	Total/NA	Solid	8270D	322112
MB 240-322112/9-A	Method Blank	Total/NA	Solid	8270D	322112
LCS 240-322112/10-A	Lab Control Sample	Total/NA	Solid	8270D	322112

GC/MS Semi VOA (Continued)

Analysis Batch: 322400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-1 MS	SD-041018-AG-020	Total/NA	Solid	8270D	322112
240-93866-1 MSD	SD-041018-AG-020	Total/NA	Solid	8270D	322112

General Chemistry

Analysis Batch: 321938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-93866-1	SD-041018-AG-020	Total/NA	Solid	Moisture	
240-93866-2	SD-041018-AG-021	Total/NA	Solid	Moisture	
240-93866-1 DU	SD-041018-AG-020	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: SD-041018-AG-020 — Lab Sample ID: 240-93866-1

Date Collected: 04/10/18 10:05 — **Matrix: Solid**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	321938	04/10/18 18:14	JWW	TAL CAN

Client Sample ID: SD-041018-AG-020 — Lab Sample ID: 240-93866-1

Date Collected: 04/10/18 10:05 — **Matrix: Solid**
Date Received: 04/10/18 13:13 — **Percent Solids: 62.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322122	04/10/18 16:45	LAM	TAL CAN
Total/NA	Analysis	8260C		1	322298	04/12/18 17:34	SAM	TAL CAN
Total/NA	Prep	3540C			322112	04/11/18 11:47	DVT	TAL CAN
Total/NA	Analysis	8270D		1	322400	04/13/18 18:34	JMG	TAL CAN

Client Sample ID: SD-041018-AG-021 — Lab Sample ID: 240-93866-2

Date Collected: 04/10/18 10:05 — **Matrix: Solid**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	321938	04/10/18 18:14	JWW	TAL CAN

Client Sample ID: SD-041018-AG-021 — Lab Sample ID: 240-93866-2

Date Collected: 04/10/18 10:05 — **Matrix: Solid**
Date Received: 04/10/18 13:13 — **Percent Solids: 73.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322122	04/10/18 16:45	LAM	TAL CAN
Total/NA	Analysis	8260C		1	322298	04/12/18 18:38	SAM	TAL CAN
Total/NA	Prep	3540C			322112	04/11/18 11:47	DVT	TAL CAN
Total/NA	Analysis	8270D		1	322400	04/13/18 19:45	JMG	TAL CAN

Client Sample ID: RB-041018-AG-022 — Lab Sample ID: 240-93866-3

Date Collected: 04/10/18 10:30 — **Matrix: Water**
Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 14:18	LEE	TAL CAN
Total/NA	Prep	3510C			322049	04/11/18 08:29	BMB	TAL CAN
Total/NA	Analysis	8270D		1	322270	04/12/18 14:13	TMH	TAL CAN

Lab Chronicle

Client: Eagon & Associates, Inc.
Project/Site: Summit National-2018 Annual Sediment

TestAmerica Job ID: 240-93866-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-93866-4

Date Collected: 04/10/18 00:00

Matrix: Water

Date Received: 04/10/18 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323134	04/19/18 14:41	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Eagon & Associates, Inc. TestAmerica Job ID: 240-93866-1
Project/Site: Summit National-2018 Annual Sediment

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18 *
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18 *
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, Ohio 44720
Ph. (330) 497-9396 ; fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Mike Gibson	Site Contact: SNFT	Date: 4/10/18	COC No:
Eagon & Associates, Inc.	Sampler: ADG	Lab Contact: Patrick J. O'Meara	Carrier: HAND DELIVERED	1 of 1 COCs
100 Old Wilson Bridge Road, Suite 115	Analysis Turnaround Time			For Lab Use Only:
Worthington, Ohio 43085	☐ CALENDAR DAYS ☑ WORKING DAYS			Walk-in Client:
(614) 888-5760 Ph. / (614) 888-5760 Fax	TAT if different from Below _____			Lab Sampling:
a.graham@eagoninc.com / mgibson@eagoninc.com	☑ 2 weeks			
Project Name: Summit National - 2017 Annual Sediment	☐ 1 week			Job / SDG No.:
Site: Summit National Superfund Site	☐ 2 days			
P O # No PO required	☐ 1 day			Sampler: ADG

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8270D - Moisture Content (Comp)	8260C - Project VOCs-Terracores (Grab)	8270D - (MOD) Project TCL SVOCs (Comp)	8260C - (MOD) Project TCL VOCs (Grab)	8260B - TCL 4 VOCs (GRAB)	Sample Specific Notes:
SD-041018-AG-020	4/10/18	1005	G/C	Solid	5	N		X	X	X			
SD-041018-AG-020 MS	↓	↓	↓	↓	↓	N		X	X	X			
SD-041018-AG-020 MSD	↓	↓	↓	↓	↓	N		X	X	X			
SD-041018-AG-021	↓	↓	↓	↓	↓	N		X	X	X			
RB-041018-AG-022	↓	1030	GRAB	WATER	↓	N					X	X	
TRIP BLANK	—	—	—	O	2	N					X		

240-93866 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ | 1 | 6 | 1 | 2

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Andrew Bardlowsky Andrew Bardlowsky	Eagon & Associates, Inc.	4/10/18 @ 1313	Jerry Burns	TA Can	4/10/18 1313
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.1, dated 02/20/2013

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 93866

Client Eagon + Assoc Site Name _____ Cooler unpacked by: Terry Burns

Cooler Received on 4/10/18 Opened on 4/10/18

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other Multiple

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☑ See Multiple Cooler Form

1. Cooler temperature upon receipt
   ~~IR GUN# IR-8 (CF +0.1 °C)~~ Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN #36 (CF +0.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   ~~IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC732776**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #B734501VB Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: TB

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____.

WI-NC-099

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login #: 93866

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Buffalo	8	3.6	3.7	ICE
TA Noa		3.4	3.5	
DFW		3.8	3.9	
TA		3.2	3.3	

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: S&E DITCH SEDIMENT

WELL DATA

Water-Level Date: (MM/DD/YY)

Water-Level Time:

Purge/Sample Method: GRAB (VOCs) COMP. (SVOCs)
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

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

Is 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-Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device X

X - Other SS spoon & bowl

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*	TOTAL VOL PURGED (Liters : Gallons) *circle one*	PUMP/TUBING:WELL VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (L : Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (L : Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
04/10/18	1015						

Sample Apperance: Dark gray **Odor:** None **Color:** Dark gray/black **Other:** —

Weather Conditions (at sample time): Wind Speed / Direction: 0 mph Air Temp: ~35°F Precipitation: Y or (N)

Comments (including purge/well volume calculations if required): Collected sediment sample by scooping sediment with S.S. trowel then transferred to S.S. bowl; collected TCL VOCs first, then homogenize sample/sed. in bowl before filling SVOC sample jars; collected sample @ confluence of S&E Ditches ~1-2' below water surface & ~10' SW of well MW-113.

FIELD COMMENTS

SAMPLE I.D. #'S:
SD-041018-AG-020
SD-041018-AG-020MS
SD-041018-AG-020MSD
SD-041018-AG-02[illegible] (Duplicate Sample)

SAMPLES COLLECTED:
TCL VOCs, TCL SVOCs

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

Date	Name	Signature
4/10/18	Andrew D. Graham	

EAGON & ASSOCIATES, INC.

EA-200 0317

FIELD INFORMATION FORM

Site Name: SUMMIT NATIONAL

Sample Point: S&E DITCH SEDIMENT RINSE BLANK

WELL DATA

Water-Level Date: (MM/DD/YY)

Water-Level Time:

Purge/Sample Method: GRAB
LF = Low Flow MP = Minimum Purge Dry = Dry V = Volumetric

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

Is 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-Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device X

X - Other SS spoon and bowl

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*	TOTAL VOL PURGED (Liters : Gallons) *circle one*	PUMP/TUBING:WELL VOLS PURGED *(optional)*

STABILIZATION DATA

Time (2400 Hr. Clock)	DTW (ft)	Vol. Purged (L : Gals)	pH (S.U.)	Spec. Conductance (µmhos/cm)	Temperature (°C)	Turbidity (NTU)	Rate (mL/min)

FIELD DATA

SAMPLE DATE (MM/DD/YY)	SAMPLE TIME (2400 Hr. Clock)	VOL. PURGED (L : Gals)	pH (S.U.)	SPEC. CONDUCTANCE (µmhos/cm)	TEMPERATURE (°C)	TURBIDITY (NTU)	RATE (mL/min)
041018	1030		7.15	7618	9.1	0.91	

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

Weather Conditions (at sample time): Wind Speed / Direction: 0 mph Air Temp: ~35°F Precipitation: Y or (N)

Comments (including purge/well volume calculations if required): Sediment rinse blank sample collected by pouring lab-supplied deionized water into SS bowl and then transferring into sample containers; SS bowl was decanned and rinsed w/ deionized water after using for sediment sampling

FIELD COMMENTS

SAMPLE I.D. #: RB-041018-AG-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
4/10/18	Andrew D. Graham	

EAGON & ASSOCIATES, INC.

EA-200 0317

FIELD METER CALIBRATION RECORD

Project Name: *Summit National Superfund Site* Sampler(s): A-GRAHAM

pH Meter(s): Make/Model/Serial No: Oakton 300 / 180251

Buffer Brand/Expiration: pH 4 IE - 7/19/19 ; pH 7 IE - 11/9/19 ; pH 10 IE - 7/12/19

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)
4/9/18	1257	Calibrate	4.03	7.00	9.95	9.9
4/10/18	0755	Calibrate	4.01	7.04	10.09	10.1

Conductivity/Temp. Meter(s): Make/Model/Serial No: Oakton 300 / 180251

Cond. Solution Brand/Expiration: IE - 9/14/18 Cond. Solution Value (@ 25 °C): 1413

Date	Time	Calibrate/Check	Cond. Standard Result (µmhos/cm)	Temp. of Cond. Soln' (°C)	Notes:
4/9/18	1254	Calibrate	1415	9.8	
4/10/18	0718	Calibrate	1415	11.3	

Turbidity Meter(s): Make/Model/Serial No.: Hach 2100P / 08030C028697

Date	Time	Calibrate/Check	Gel Value (NTU)	Reading (NTU)	Notes:
4/9/18	1301	check	4.55	4.43	
4/10/18	0758	check	4.55	4.33	

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

APPENDIX C.

DATA VALIDATION RESULTS

DATA VALIDATION RESULTS

Groundwater Samples

Groundwater samples were collected from 12 monitoring wells during the April 2018 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 Quality Assurance Project Plan (QAPP). Specifically, two trip blanks 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 C-1) 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 samples were received at the laboratory at temperatures of 3.3, 3.5, 3.7 and 3.9°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, TestAmerica Laboratories of North Canton, Ohio, 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. MS/MSD recoveries also were compliant. There were no VOC detections above the reporting limit in the trip blanks. Dilution factors used for analysis of samples from MW-11 (3.33 times), MW-107 (166.67 times), MW-108 (2.5-25 times), MW-111 (2.5-25 times), and Duplicate #1 (10 times) have resulted in correspondingly higher RLs and practical quantitation limits (PQL)s. Reported results from MW-107 and MW-111 are in some cases non-detect for compounds typically detected during past events and some results are reported as estimated at levels similar to previously quantified detections.

The laboratory analytical report narrative indicates that continuing calibration verification (CCV) recoveries were above the control limits for chloroethane in all batches associated with the groundwater samples. The high CCV recoveries indicate a potential high bias to the sample results. Chloroethane was estimated below the PQL at monitoring well MW-107 at 92J micrograms per liter (ug/L). This result is consistent with recent historical results and therefore has not been qualified due to the CCV recovery exceedance. The results for this compound were non-detect for all other sample points and therefore no data have been qualified based on the high chloroethane CCV recoveries.

The CCV recovery for acetone was above the control limit in the batch associated with monitoring points MW-11, MW-108, MW-111, Duplicate #1 (taken at MW-108), and Rinse Blank #1. The high CCV recovery indicates a potential high bias to the sample results. The results for Acetone were non-detect at all of these sample points and are consistent with historical results. No data have been qualified due to the acetone CCV recovery 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 VOCs by SW-846 Method 8260C and for semi-volatile organic compounds (SVOCs) by SW-846 Method 8270D. MS/MSD sediment samples also were collected.

The sample receipt summary (included in the laboratory analytical report) indicates that samples were received at the laboratory at temperatures of 3.3, 3.5, 3.7 and 3.9°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.

Duplicate sample results are compared to original sample results on the attached summary table (Table 5 of the report) and the RPD was calculated for each set of quantified results. RPD values were greater than 20 percent for 2-Methylnaphthalene, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzofuran, Fluoranthene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Phenol, and Pyrene. Calculable RPD values between the original and duplicate samples were less than 20 percent for all other duplicate comparisons. It is noted that sampling procedures for the sediment sample and duplicate include mixing of the sample volume prior to filling sample containers in an effort to homogenize the sample volume. However, the analyses are of separate sediment sample volumes and some differences in results are not unexpected. Data are not qualified due to RPD exceedances alone. Additional evaluation of analytical results and QC data are provided in the following paragraphs.

Volatile Organic Compounds

Samples were analyzed for VOCs by SW-846 Method 8260C. All analyses were performed within the required method holding time. All blank spike recoveries were compliant.

The TestAmerica narrative in the laboratory analytical data report indicates that there were RPD exceedances for the MS and MSD recoveries of Ethylbenzene and Tetrachloroethene. However, the MS and MSD recoveries were compliant and neither Ethylbenzene nor Tetrachloroethene were detected in the sample or duplicate. The non-detect results are consistent with historical results for both Ethylbenzene and Tetrachloroethene. No data have been qualified due to the RPD exceedances.

The laboratory analytical report narrative indicates that CCV recoveries were above the control limits for 2-Hexanone, Chloromethane, 4-Methyl-2-Pentanone, and 2-Butanone for the sediment sample and the duplicate sample. The high CCV recoveries indicate a potential high bias to the sample results. 2-Butanone was detected in the duplicate sample at 1.4J micrograms per kilogram (ug/Kg). The results for all other compounds were all non-detect and have not been qualified. The result for 2-Butanone in the duplicate sample is already an estimated value reported below the PQL and has not been further qualified due to the high CCV recovery. 2-Butanone has not previously been detected above the RL in sediment samples from the site.

Carbon disulfide was detected in the method blank associated with the analysis of the sediment and duplicate samples. The method blank result was 1.77J ug/Kg. Results for carbon disulfide were non-detect in the sediment sample and 1.80J ug/Kg in the duplicate sample. The similarity of the duplicate sample results to the method blank results suggests that the reported duplicate sample detections are from a laboratory derived source and are not present in the duplicate sample. Carbon disulfide has been reported at estimated values in the sediment and duplicate samples from past sampling events.

Methylene chloride was detected in the method blank associated with the analysis of the rinse blank and trip blank samples. The method blank result for methylene chloride was 1.20 ug/Kg, whereas the results in the rinse blank and trip blank samples were both non-detect.

The laboratory control sample (LCS) recovery was above the QC limit for 1,1,2-Trichloroethane in the LCS associated with analysis of the rinse blank and trip blank samples. Recovery for 1,1,2-Trichloroethane was 126 percent. The upper QC limit is 121 percent. The high LCS recoveries indicate a potential high bias to the sample results. 1,1,2-Trichloroethane was not detected in either the rinse blank or trip blank samples.

The laboratory analytical report narrative indicates that CCV recoveries were above the control limits for 1,1,2-trichloroethane, bromomethane, chloroethane, and chlorodibromomethane. The high CCV recoveries indicate a potential high bias to the sample results. The results for these compounds were all non-detect. No data have been qualified due to the CCV recovery exceedances.

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.

Phenol was detected in the method blank associated with the sediment sample and duplicate sample. The method blank result was 29.7J ug/Kg. The results for the sediment sample and the duplicate sample were 24J ug/Kg and 38J ug/Kg respectively. The similarity of the sample results to the method blank results and the fact that the sediment sample has historically been non-detect for Phenol suggests that the reported sample detections are from a laboratory derived source and are not present in the sediment sample or duplicate sample.

Diethyl phthalate was detected in the method blank associated with the rinse blank sample. The method blank result was 3.36 ug/Kg. The result for the rinse blank sample was 1.5J ug/Kg. The similarity of the rinse blank results to the method blank results and the fact that the

sediment sample and duplicate sample results were non-detect suggests that the reported rinse blank detection is from a laboratory derived source and is not present in the sample.

Surrogate recoveries were below the QC limit for 2-Fluorobiphenyl (Surr), 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) for the sediment sample and the MS/MSD samples as detailed in the following table:

	Recovery	MS Recovery	MSD Recovery	Lower QC Limit
2-Fluorobiphenyl (Surr)	27%	29%	21%	32%
2-Fluorophenol (Surr)	24%	25%	18%	29%
Nitrobenzene-d5 (Surr)	24%	27%	18%	30%
Phenol-d5 (Surr)	24%	28%	21%	29%
Terphenyl-d14 (Surr)	29%	32%	28%	41%

The low surrogate recoveries indicate a potential low bias to the associated sample results. As shown on attached Table C-2, the results associated with the low surrogate recoveries in the sediment sample appear to be low as compared to recent historical values for 2-Methylnaphthalene, Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, and Phenol. The duplicate sample values, which had compliant surrogate recovery results, appear to be more consistent with recent historical results. All SVOC results have been qualified as estimated "J" for the sediment sample and associated MS/MSD samples due to the low surrogate recoveries.

MS/MSD recoveries were below the QC limits as detailed in Table C-3 for the QC samples associated with analysis of the original sediment sample. As shown on the table, the

RPD exceeded the QC limit for several parameters. RPDs could not be calculated for 3,3'-Dichlorobenzidine and Hexachlorocyclopentadiene due to zero recoveries. The low MS/MSD recoveries indicate a potential low bias to the sample results. As outlined in the surrogate recovery discussion, sample results for some of the associated compounds in the original sediment sample are not consistent with historical results. The results for 3,3'-Dichlorobenzidine and Hexachlorocyclopentadiene are rejected (R qualifier) due to the zero MS/MSD recoveries.

The laboratory analytical report narrative indicates that CCV recovery for the batch associated with the rinse blank sample exceeded the upper control limit for 3-Nitroaniline. The rinse blank result for this compound was non-detect.

The CCV recovery exceeded the upper control limit for 2,4-Dinitrophenol for the batch associated with the sediment and duplicate sediment samples. The sediment and duplicate sample results were non-detect for 2,4-Dinitrophenol. The high CCV recovery indicates a potential high bias to the sample results. Results for 2,4-Dinitrophenol from the sample and duplicate were non-detect. No data have been qualified due to the CCV recovery exceedance.

Surface-Water Samples

A surface-water sample and duplicate were collected from the confluence of the south and east ditches. One field blank was collected and a trip blank was analyzed for volatile organic compounds only. Samples were analyzed for VOCs by SW-846 Method 8260C and SVOCs by SW-846 Method 8270D. Site specific MS/MSD samples also were collected.

Duplicate sample results are compared to original sample results on the attached summary table (Table 4 of the report) and the 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 samples were received at the laboratory at temperatures of 3.3, 3.5, 3.7 and 3.9°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, TestAmerica, 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 recoveries were compliant.

MS/MSD recoveries were above the QC limits as detailed in the attached table C-4 in the QC samples associated with analysis of the surface-water sample. As shown on the table, RPDs exceeded the QC limit for several parameters. The high MS/MSD recoveries indicate a potential high bias to the sample results. 1,2-Dichloroethene, Total was the only parameter detected in the surface water and surface-water duplicate samples. Results were 0.99J ug/L and 1.1J ug/L respectively. These results are consistent with historical results. Sample results for the all other affected compounds were non-detect and the non-detect results are consistent with historical results. No data were qualified due to the high MS/MSD recoveries or RPD exceedances.

The laboratory analytical report narrative indicates that CCV recoveries were outside the control limits for 2-butanone, 2-hexanone, 4-methyl-2-butanone, bromomethane, and chloroethane. The high CCV recoveries indicate a potential high bias to the sample results. The results for these compounds were all non-detect. No data have been qualified due to the CCV recovery exceedances.

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. MS/MSD recoveries also were compliant.

Diethyl phthalate was detected in the method blank associated with analysis of the surface-water sample, duplicate, and field blank. The method blank result was 3.36 ug/L. The surface-water sample, duplicate surface-water sample, and field blank sample results were 1.4J ug/L, 0.92J ug/L, and 1.0J ug/L, respectively. The similarity of the sample results to the method blank results suggests that the detections are from a laboratory derived source and are not present in the associated samples.

The laboratory analytical report narrative indicates that CCV recovery exceeded the upper control limit for 3-Nitroaniline. The high CCV recovery indicates a potential high bias to the sample results. The sample, duplicate, and field blank results were non-detect for 3-Nitroaniline. No data have been qualified due to the CCV recovery exceedance.

Summary

The April 2018 annual monitoring event performed at the Summit National Superfund 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, field blank, and MS/MSD samples were collected in accordance with the requirements specified in the QAPP. Trip blanks for VOC analyses were included in each cooler that contained samples for VOC analysis. Sample results were qualified as estimated or rejected as described in this data validation report. Two of the SVOC results for the sediment sample were rejected due to low MS/MSD recoveries. Completeness for the April 2018 groundwater monitoring event is 99.7 percent.

TABLE C-1.
RELATIVE PERCENT DIFFERENCES OF QUANTIFIED RESULTS
SUMMIT NATIONAL SUPERFUND SITE

Location				
Parameter	**Units**	**Investigative Sample**	**Duplicate Sample**	**RPD**
MW-108		GW-040918-NK-002	GW-040918-NK-003	
1,1,1-Trichloroethane	ug/L	2.4 J	2.4	0%
1,1-Dichloroethane	ug/L	270	270	0%
1,2-Dichloroethane	ug/L	49	49	0%
Acetone	ug/L	ND (25)	ND (10)	NC
Benzene	ug/L	110	110	0%
Chlorobenzene	ug/L	ND (2.5)	ND (1.0)	NC
Chloroethane	ug/L	ND (2.5)	ND (1.0)	NC
cis-1,2-Dichloroethene	ug/L	200	200	0%
Ethylbenzene	ug/L	ND (2.5)	ND (1.0)	NC
Toluene	ug/L	0.66 J	0.59 J	11%
trans-1,2-Dichloroethene	ug/L	4.7	4.8	2%
Trichloroethene	ug/L	22	20	10%
Vinyl chloride	ug/L	85	100	16%
Xylene (total)	ug/L	ND (5.0)	ND (2.0)	NC
MW-115		GW-041018-NK-014	GW-041018-NK-015	
1,1,1-Trichloroethane	ug/L	ND (1.0)	ND (1.0)	NC
1,1-Dichloroethane	ug/L	0.43 J	0.40 J	7%
1,2-Dichloroethane	ug/L	ND (1.0)	ND (1.0)	NC
Acetone	ug/L	ND (10)	ND (10)	NC
Benzene	ug/L	ND (1.0)	ND (1.0)	NC
Chlorobenzene	ug/L	ND (1.0)	ND (1.0)	NC
Chloroethane	ug/L	ND (1.0)	ND (1.0)	NC
cis-1,2-Dichloroethene	ug/L	0.72 J	0.74 J	3%
Ethylbenzene	ug/L	ND (1.0)	ND (1.0)	NC
Toluene	ug/L	ND (1.0)	ND (1.0)	NC
trans-1,2-Dichloroethene	ug/L	ND (1.0)	ND (1.0)	NC
Trichloroethene	ug/L	ND (1.0)	ND (1.0)	NC
Vinyl chloride	ug/L	ND (1.0)	ND (1.0)	NC
Xylene (total)	ug/L	ND (2.0)	ND (2.0)	NC

Notes:

ND (1.0) = Non-Detect to a PQL of 1.0
RPD = Relative Percent Difference
NC = Not Calculable
J = Estimated result less than the practical quantitation limit and greater than the method detection limit.

C-2
SEDIMENT DATA VALIDATION, APRIL 2018
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	S&E Ditch Sediment 4/10/2018	Consistent with Historical Results?	Qualifier	S&E Ditch Sediment (DUP) 4/10/2018	Consistent with Historical Results?	Qualifier	RPD[1]
Semi-Volatile Organic Compounds							
1,2,4-Trichlorobenzene	< 82	Y	J	< 69	Y	--	NC[2]
1,2-Dichlorobenzene	< 82	Y	J	< 69	Y	--	NC[2]
1,3-Dichlorobenzene	< 82	Y	J	< 69	Y	--	NC[2]
1,4-Dichlorobenzene	< 82	Y	J	< 69	Y	--	NC[2]
2,2'-oxybis[1-chloropropane]	< 160	Y	J	< 140	Y	--	NC[2]
2,4,5-Trichlorophenol	< 240	Y	J	< 210	Y	--	NC[2]
2,4,6-Trichlorophenol	< 240	Y	J	< 210	Y	--	NC[2]
2,4-Dichlorophenol	< 240	Y	J	< 210	Y	--	NC[2]
2,4-Dimethylphenol	< 240	Y	J	< 210	Y	--	NC[2]
2,4-Dinitrophenol	< 540	Y	J	< 450	Y	--	NC[2]
2,4-Dinitrotoluene	< 330	Y	J	< 280	Y	--	NC[2]
2,6-Dinitrotoluene	< 330	Y	J	< 280	Y	--	NC[2]
2-Chloronaphthalene	< 82	Y	J	< 69	Y	--	NC[2]
2-Chlorophenol	< 82	Y	J	< 69	Y	--	NC[2]
2-Methylnaphthalene	**260**	Y (pre-2016)	J	**740**	Y (recent)	--	96%
2-Methylphenol	< 330	Y	J	< 280	Y	--	NC[2]
2-Nitroaniline	< 330	Y	J	< 280	Y	--	NC[2]
2-Nitrophenol	< 82	Y	J	< 69	Y	--	NC[2]
3&4-Methylphenol	< 650	Y	J	< 550	Y	--	NC[2]
3,3'-Dichlorobenzidine	< 160	Y	J	< 140	Y	--	NC[2]
3-Nitroaniline	< 330	Y	J	< 280	Y	--	NC[2]
4,6-Dinitro-2-methylphenol	< 240	Y	J	< 210	Y	--	NC[2]
4-Bromophenyl phenyl ether	< 82	Y	J	< 69	Y	--	NC[2]
4-Chloro-3-methyl phenol	< 240	Y	J	< 210	Y	--	NC[2]
4-Chloroaniline	< 240	Y	J	< 210	Y	--	NC[2]
4-Chlorophenyl phenyl ether	< 82	Y	J	< 69	Y	--	NC[2]
4-Nitroaniline	< 330	Y	J	< 280	Y	--	NC[2]
4-Nitrophenol	< 540	Y	J	< 450	Y	--	NC[2]
Acenaphthene	< 11	N (low)	J	< 9.2	N (low)	--	NC[2]
Acenaphthylene	5.5 J	Y	J	8.9 J	Y	--	47%
Anthracene	< 11	N (low)	J	**15**	Y	--	NC[2]
Benzo(a)anthracene	**23**	N (low)	J	**50**	Y	--	74%
Benzo(a)pyrene	**23**	N (low)	J	**45**	Y	--	65%
Benzo(b)fluoranthene	**48**	Y	J	**91**	Y	--	62%
Benzo(g,h,i)perylene	**100**	Y	J	**180**	Y	--	57%
Benzo(k)fluoranthene	**12**	N (low)	J	**18**	N (low)	--	40%
bis(2-Chloroethoxy)methane	< 160	Y	J	< 140	Y	--	NC[2]
bis(2-Chloroethyl)ether	< 160	Y	J	< 140	Y	--	NC[3]
bis(2-ethylhexyl)phthalate	<110	Y	J	< 96	Y	--	NC[2]

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

[1] RPD - Relative Percent Difference

[2] NC - Not Calculable

Bold - Quantified Result

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

R = Rejected value based on data validation results

C-2
SEDIMENT DATA VALIDATION, APRIL 2018
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	S&E Ditch Sediment 4/10/2018	Consistent with Historical Results?	Qualifier	S&E Ditch Sediment (DUP) 4/10/2018	Consistent with Historical Results?	Qualifier	RPD[1]
Semi-Volatile Organic Compounds (Continued)							
Butyl benzyl phthalate	< 110	Y	J	< 96	Y	--	NC[2]
Carbazole	< 82	Y	J	< 69	Y	--	NC[2]
Chrysene	**45**	Y	J	**82**	Y	--	58%
Dibenz(a,h)anthracene	< 11	N (low)	J	**16**	Y	--	NC[2]
Dibenzofuran	**60**	Y	J	**150**	Y	--	86%
Diethyl phthalate	< 110	Y	J	< 96	Y	--	NC[2]
Dimethyl phthalate	< 110	Y	J	< 96	Y	--	NC[2]
Di-n-butyl phthalate	< 110	Y	J	< 96	Y	--	NC[2]
Di-n-octyl phthalate	< 110	Y	J	< 96	Y	--	NC[2]
Fluoranthene	**46**	Y (pre-2016)	J	**100**	Y (recent)	--	74%
Fluorene	< 11	N (low)	J	**16**	N (low)	--	NC[2]
Hexachlorobenzene	< 11	Y	J	< 9.2	Y	--	NC[2]
Hexachlorobutadiene	< 82	Y	J	< 69	Y	--	NC[2]
Hexachlorocyclopentadiene	< 540	Y	J	< 450	Y	--	NC[2]
Hexachloroethane	< 82	Y	J	< 69	Y	--	NC[2]
Indeno(1,2,3-cd)pyrene	**25**	N (low)	J	**44**	Y	--	55%
Isophorone	< 82	Y	J	< 69	Y	--	NC[2]
Naphthalene	**160**	Y (pre-2016)	J	**510**	Y (recent)	--	104%
Nitrobenzene	< 160	Y	J	< 140	Y	--	NC[2]
N-Nitroso-di-n-propylamine	< 82	Y	J	< 69	Y	--	NC[2]
N-Nitrosodiphenylamine	< 82	Y	J	< 69	Y	--	NC[2]
Pentachlorophenol	< 240	Y	J	< 210	Y	--	NC[2]
Phenanthrene	**170**	Y (pre-2016)	J	**410**	Y (recent)	--	83%
Phenol	24 J B	N (all ND)	J	38 J B	N (all ND)	--	45%
Pyrene	**66**	Y	J	**130**	Y	--	65%

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

[1] RPD - Relative Percent Difference

[2] NC - Not Calculable

Bold - Quantified Result

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

R = Rejected value based on data validation results

C-3
SEDIMENT DATA VALIDATION, APRIL 2018
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	MS Recovery	MSD Recovery	Lower QC Limit	RPD	RPD Limit
Semi-Volatile Organic Compounds					
1,2,4-Trichlorobenzene	24%	18%	34%	30%	32%
1,2-Dichlorobenzene	21%	16%	33%	31%	31%
1,3-Dichlorobenzene	17%	15%	32%	12%	32%
1,4-Dichlorobenzene	19%	15%	28%	23%	40%
2,2'-oxybis[1-chloropropane]	25%	17%	26%	37%	31%
2,4,5-Trichlorophenol	30%	23%	28%	30%	38%
2,4-Dichlorophenol	29%	23%	32%	25%	32%
2,4-Dimethylphenol	28%	23%	28%	23%	35%
2,4-Dinitrophenol	20%	4%	10%	130%	40%
2,4-Dinitrotoluene	26%	21%	38%	23%	27%
2,6-Dinitrotoluene	29%	23%	43%	23%	31%
2-Chloronaphthalene	28%	21%	35%	31%	30%
2-Chlorophenol	26%	19%	30%	34%	37%
2-Methylnaphthalene	56%	22%	31%	53%	33%
2-Methylphenol	28%	21%	31%	27%	36%
2-Nitroaniline	29%	21%	29%	32%	31%
2-Nitrophenol	28%	20%	26%	35%	38%
3&4-Methylphenol	28%	22%	33%	23%	29%
3,3'-Dichlorobenzidine	0%	0%	10%	NC	40%
3-Nitroaniline	12%	11%	21%	11%	40%
4,6-Dinitro-2-methylphenol	26%	15%	10%	56%	40%
4-Bromophenyl phenyl ether	28%	23%	44%	19%	40%
4-Chloro-3-methyl phenol	31%	23%	31%	31%	25%
4-Chlorophenyl phenyl ether	27%	23%	41%	16%	40%
4-Nitroaniline	9%	8%	23%	15%	40%
4-Nitrophenol	30%	25%	32%	17%	31%
Acenaphthene	28%	23%	36%	22%	28%
Acenaphthylene	27%	21%	35%	25%	26%
Anthracene	30%	26%	42%	16%	32%
Benzo(a)anthracene	31%	25%	35%	18%	40%
Benzo(a)pyrene	31%	26%	33%	17%	40%
Benzo(k)fluoranthene	29%	25%	33%	16%	40%
bis(2-Chloroethoxy)methane	26%	19%	36%	35%	33%
bis(2-Chloroethyl)ether	24%	17%	33%	35%	36%
bis(2-ethylhexyl)phthalate	37%	30%	40%	20%	28%

RPD - Relative Percent Difference

NC - Not Calculable

C-3
SEDIMENT DATA VALIDATION, APRIL 2018
S & E DITCH SEDIMENT
SUMMIT NATIONAL SUPERFUND SITE

Parameter	MS Recovery	MSD Recovery	Lower QC Limit	RPD	RPD Limit
Semi-Volatile Organic Compounds					
Butyl benzyl phthalate	32%	28%	46%	14%	39%
Carbazole	32%	27%	35%	18%	34%
Chrysene	31%	26%	33%	15%	40%
Dibenzofuran	31%	23%	37%	22%	28%
Diethyl phthalate	28%	24%	44%	19%	26%
Dimethyl phthalate	29%	22%	42%	27%	35%
Di-n-butyl phthalate	30%	27%	45%	12%	28%
Di-n-octyl phthalate	30%	27%	35%	14%	33%
Fluorene	28%	25%	36%	13%	28%
Hexachlorobenzene	26%	25%	36%	5%	25%
Hexachlorobutadiene	23%	19%	31%	17%	35%
Hexachlorocyclopentadiene	0%	0%	10%	NC	40%
Hexachloroethane	15%	12%	15%	26%	40%
Isophorone	28%	19%	34%	42%	32%
Naphthalene	44%	16%	29%	63%	34%
Nitrobenzene	25%	17%	33%	39%	40%
N-Nitroso-di-n-propylamine	26%	19%	32%	33%	32%
N-Nitrosodiphenylamine	29%	26%	29%	13%	30%
Phenol	25%	20%	21%	20%	40%

RPD - Relative Percent Difference

NC - Not Calculable

TABLE C-4.
WATER-QUALITY DATA SUMMARY, APRIL 2018
S & E DITCH SURFACE WATER
SUMMIT NATIONAL SUPERFUND SITE

Parameter	MS Recovery	MSD Recovery	Upper QC Limit	RPD	RPD Limit
Volatile Organic Compounds					
1,1,1-Trichloroethane	116%	98%	156%	17%	12%
1,1,2-Trichloroethane	118%	104%	127%	13%	11%
1,1-Dichloroethane	113%	95%	122%	17%	11%
1,1-Dichloroethene	101%	83%	127%	20%	14%
1,2-Dichloroethane	108%	95%	138%	13%	11%
1,2-Dichloroethene (total)	115%	97%	129%	16%	10%
1,2-Dichloropropane	116%	94%	131%	21%	12%
Benzene	109%	93%	127%	16%	10%
Bromodichloromethane	109%	92%	128%	18%	13%
Carbon disulfide	106%	84%	143%	23%	18%
Chlorobenzene	113%	93%	120%	19%	12%
Chloroethane	142%	124%	141%	14%	35%
Chloroform	118%	97%	125%	19%	11%
Chloromethane	128%	105%	127%	20%	25%
cis-1,3-Dichloropropene	108%	92%	120%	17%	13%
Ethylbenzene	110%	92%	121%	18%	15%
Methylene chloride	108%	85%	137%	24%	12%
Styrene	99%	82%	125%	19%	14%
Tetrachloroethene	115%	95%	126%	20%	18%
Toluene	120%	99%	125%	20%	14%
Trichloroethene	116%	98%	129%	17%	12%
Vinyl chloride	127%	109%	123%	16%	12%
Xylene (total)	106%	86%	122%	21%	14%

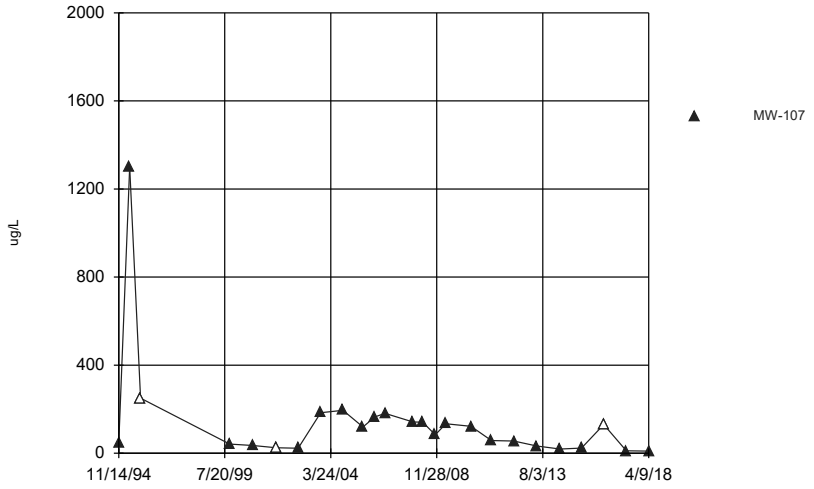
RPD - Relative Percent Difference

APPENDIX D.

TIME-SERIES PLOTS OF WATER-QUALITY DATA, ANNUAL MONITORING WELLS

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 9/25/2018 11:40 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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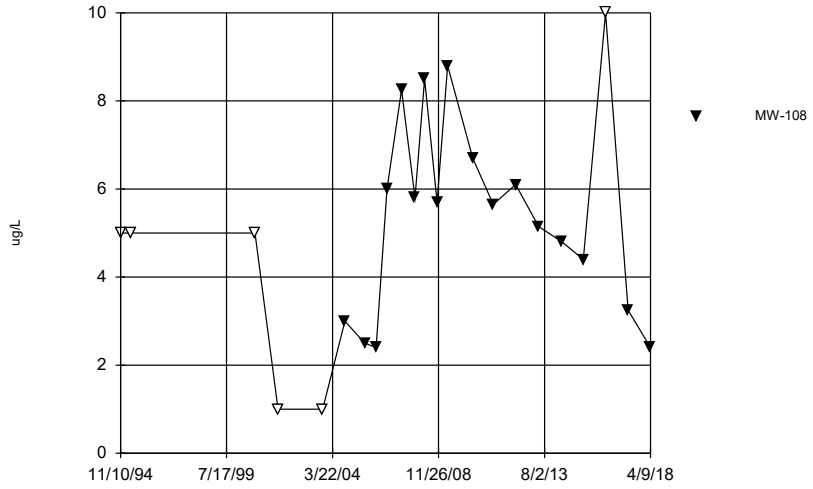
Hollow symbols indicate censored values.

Time Series



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Summit National Site Client: Summit National Site Data: Summit.National.Database

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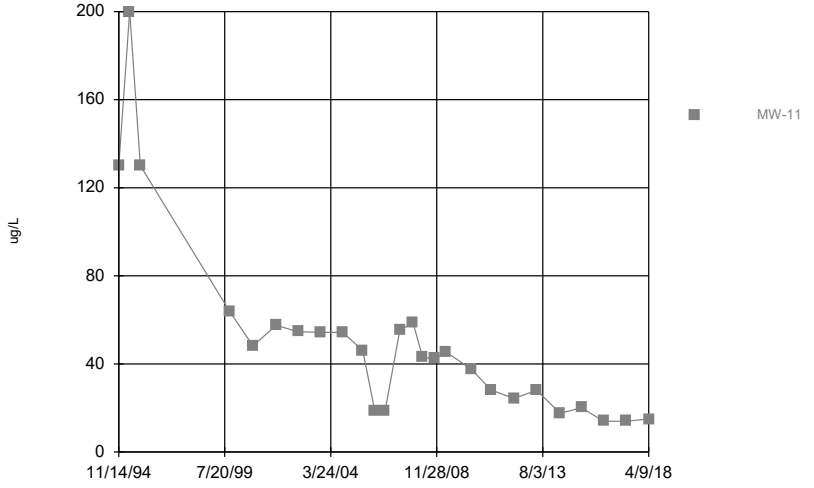
Time Series



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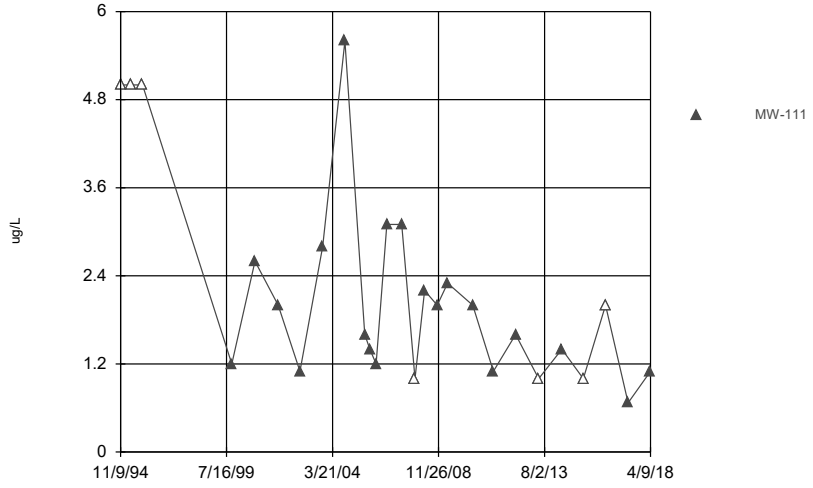
Time Series



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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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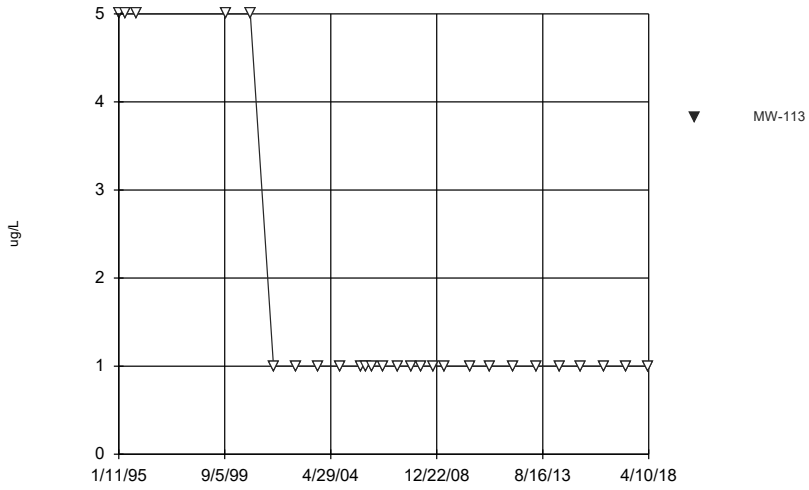
Time Series



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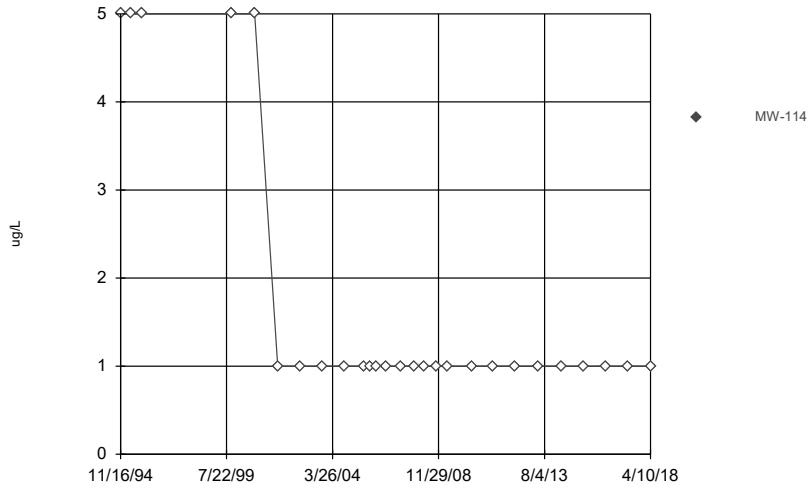
Time Series



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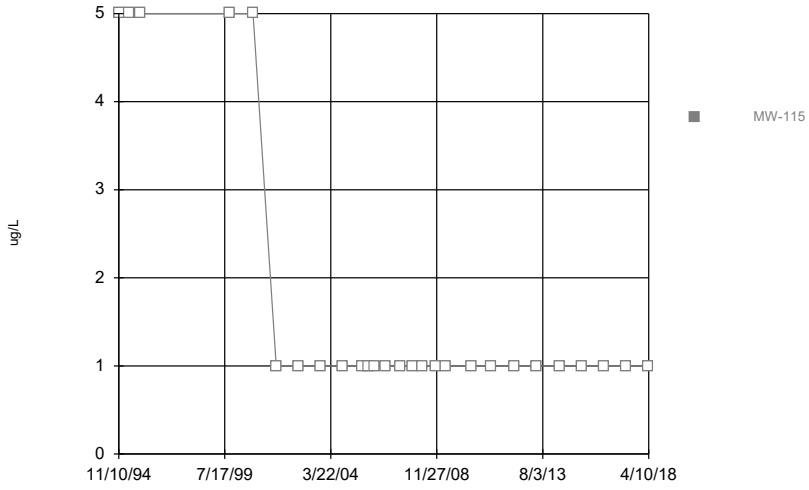
Time Series



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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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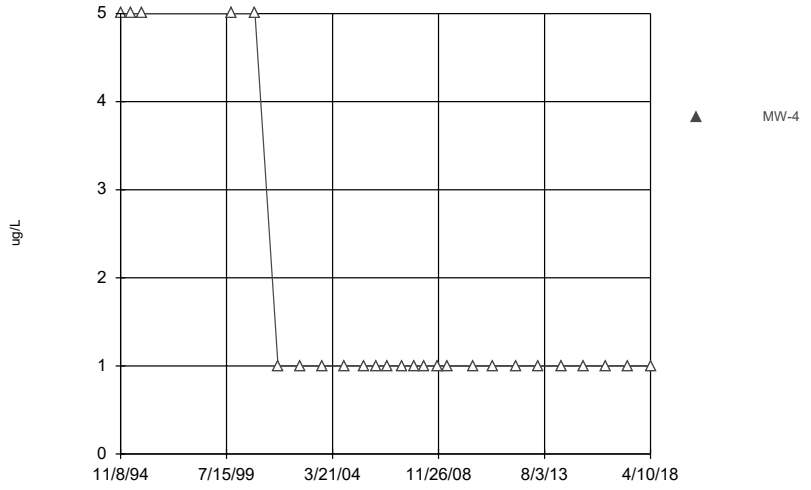
Time Series



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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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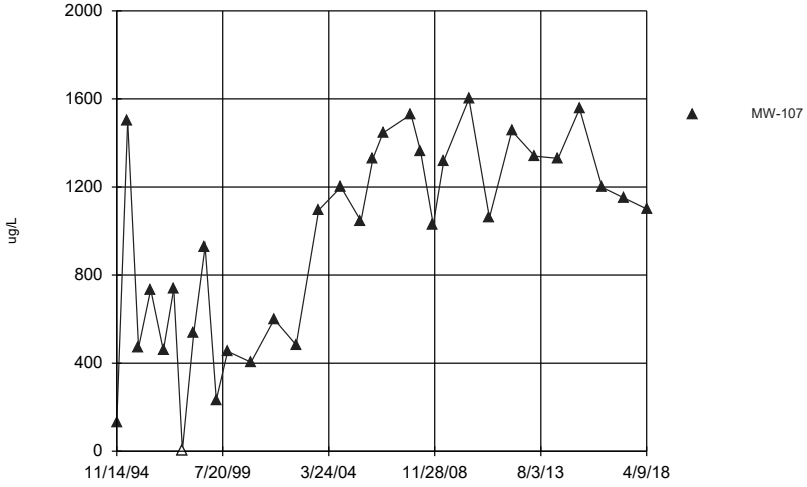
Time Series



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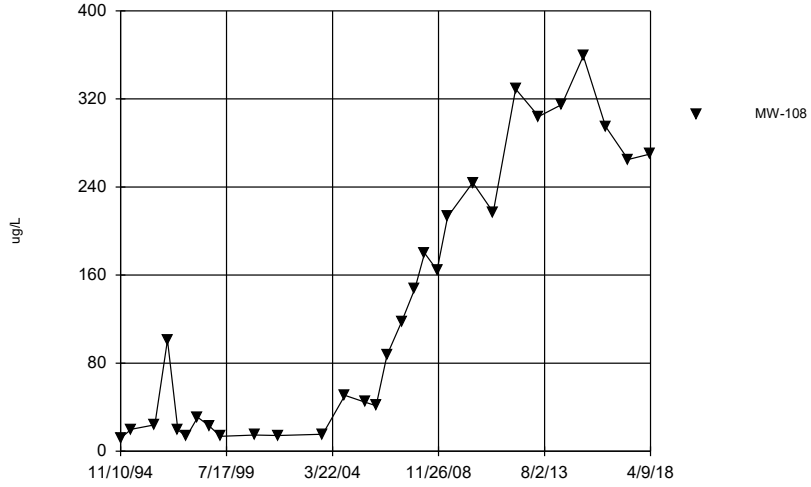
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG

Time Series



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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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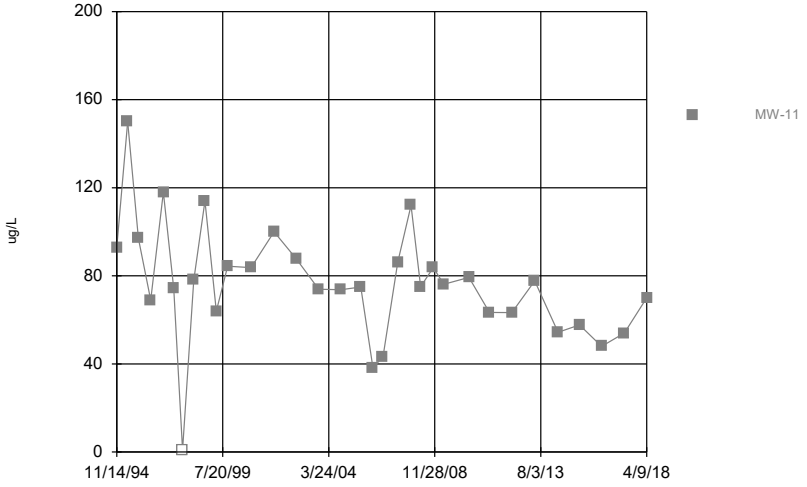

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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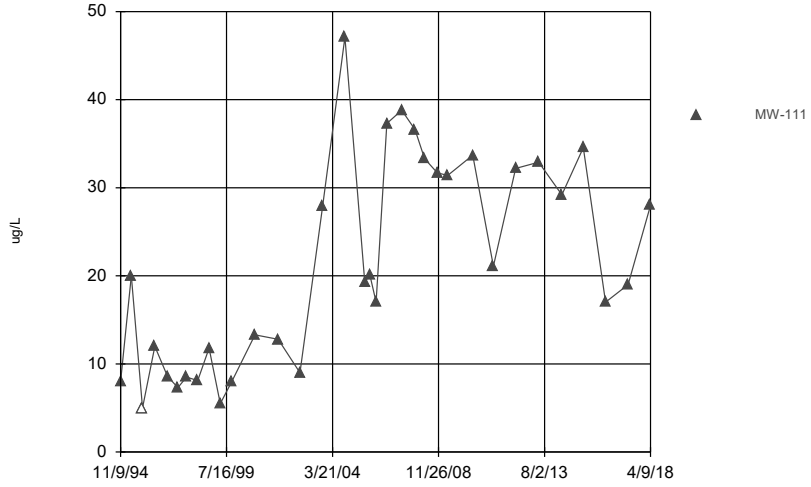
Time Series



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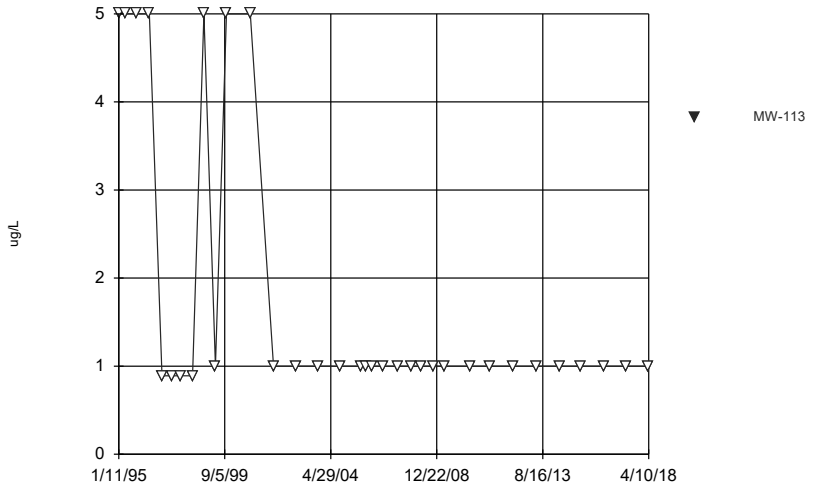

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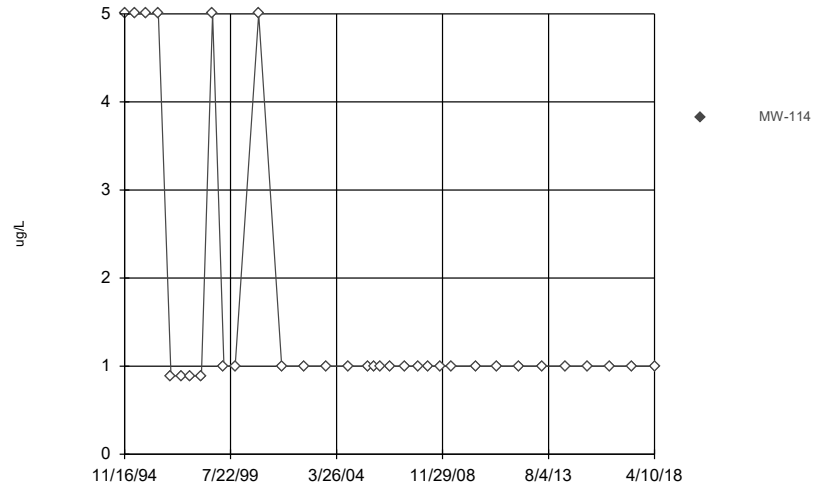

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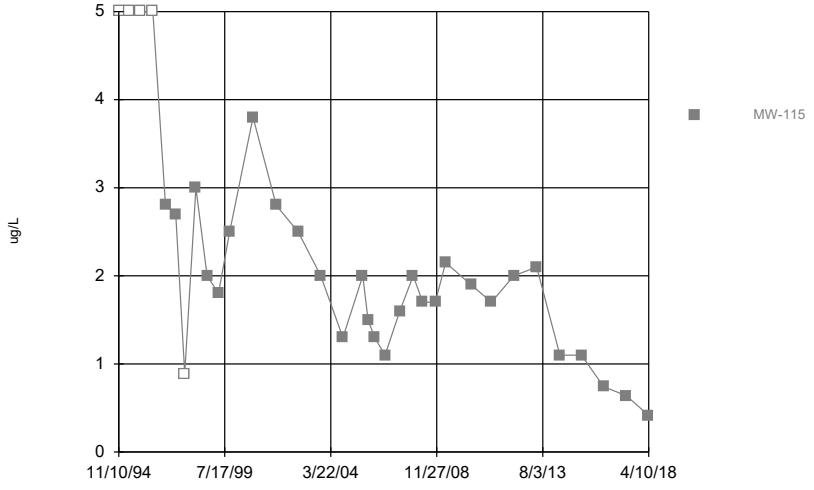

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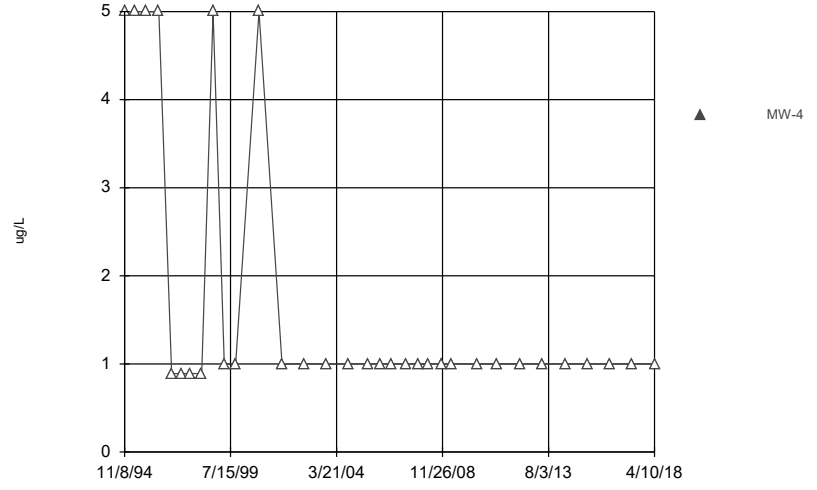

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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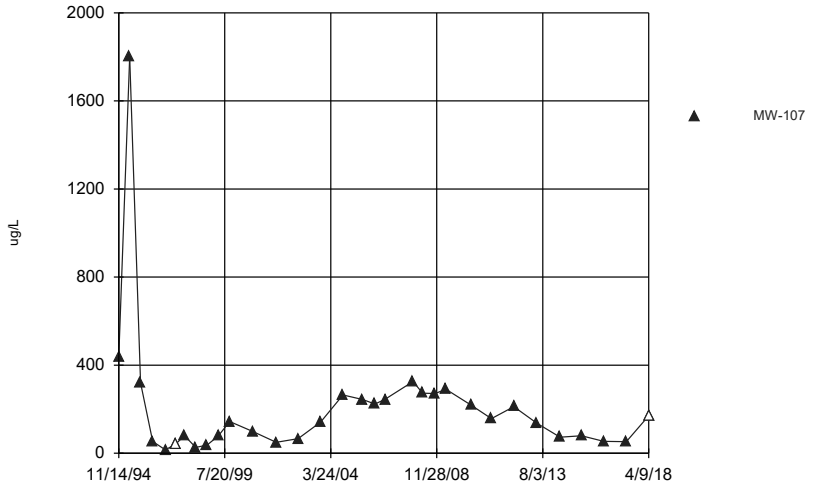

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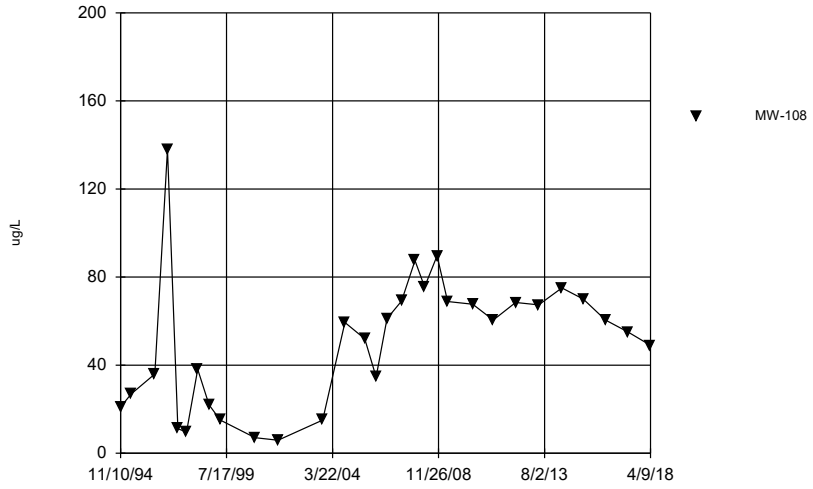
Time Series



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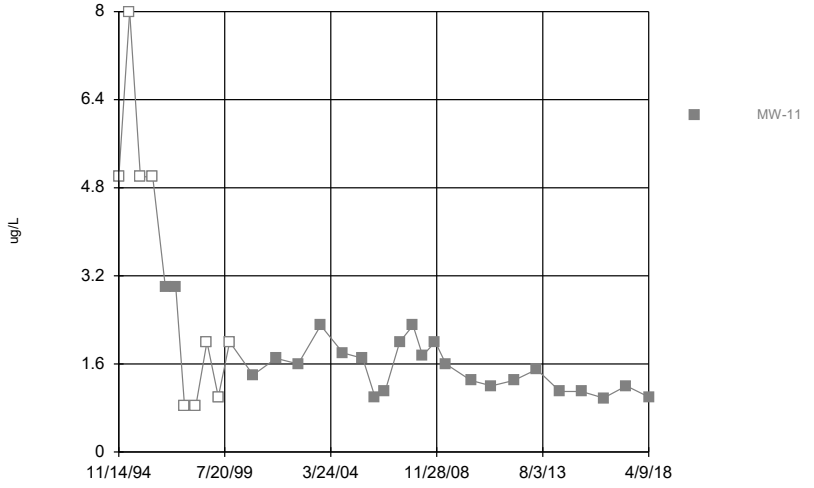

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG

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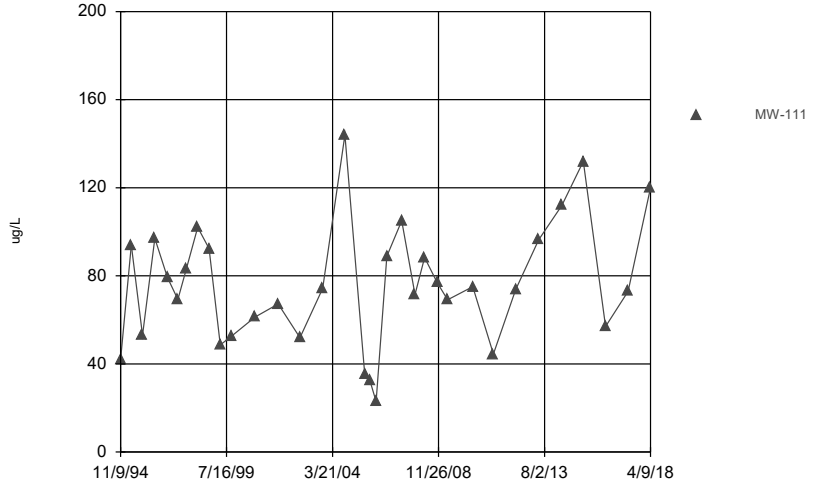

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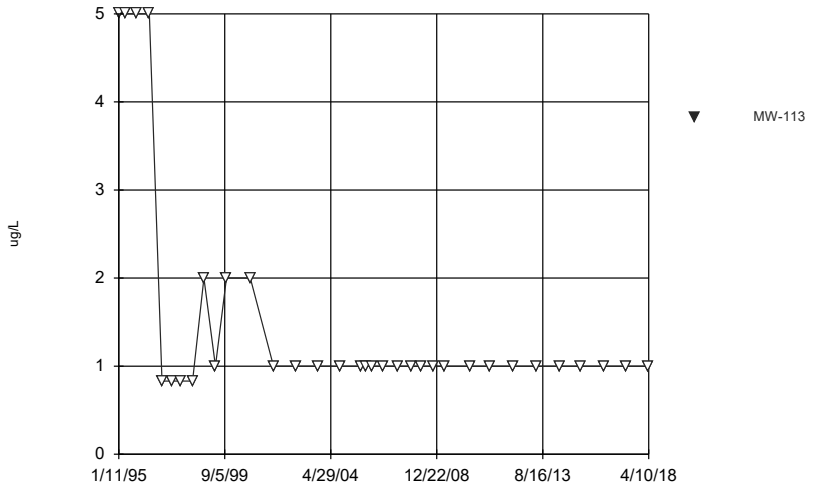

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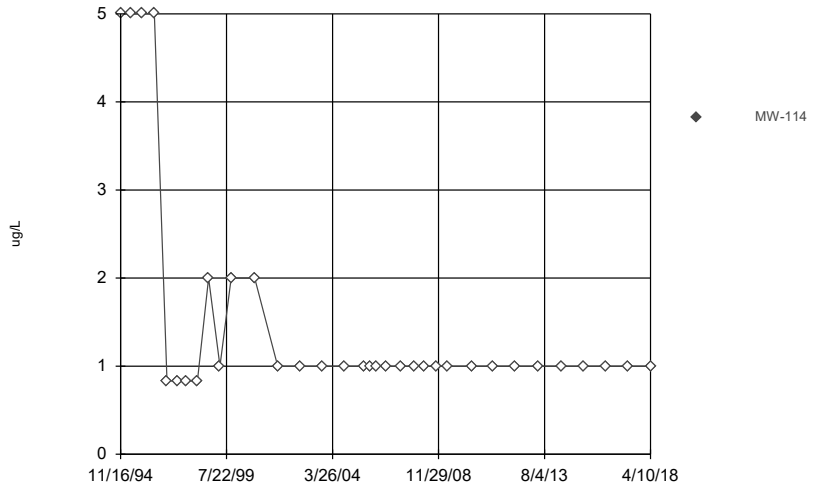

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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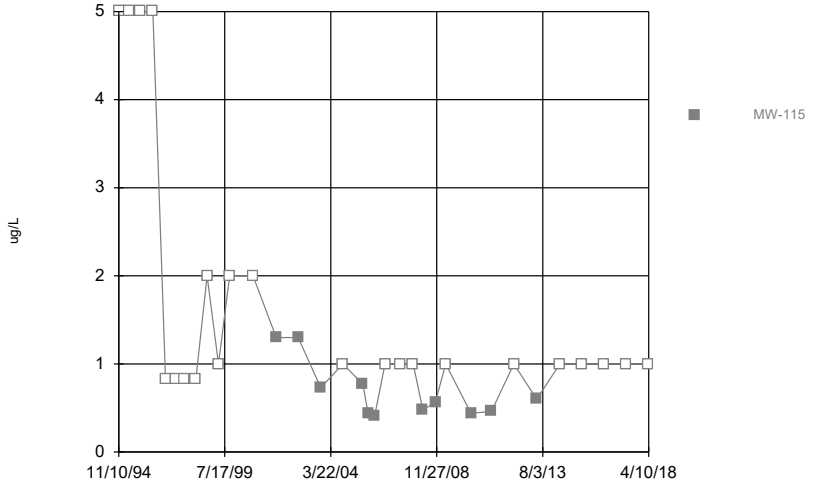

Constituent: 1,2-Dichloroethane Analysis Run 9/25/2018 11:41 AM View: WTU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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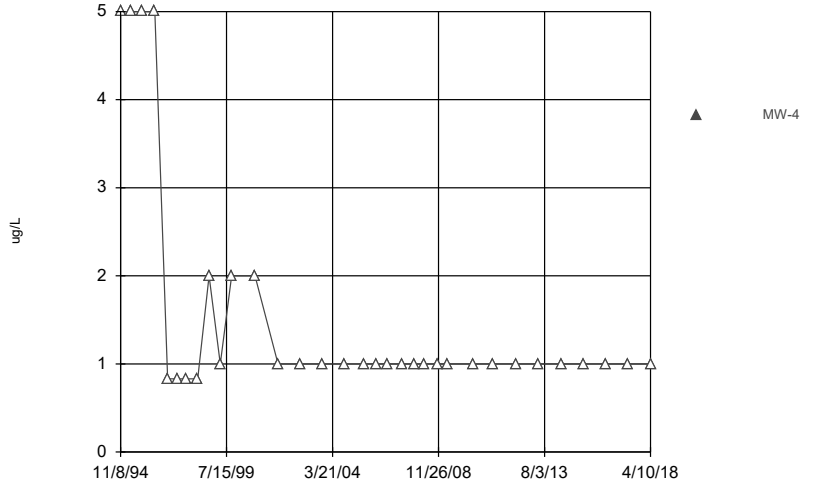

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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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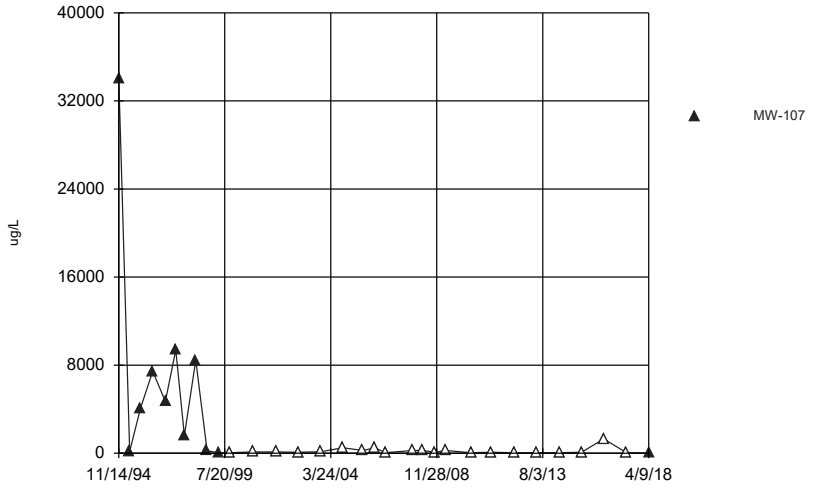
Time Series



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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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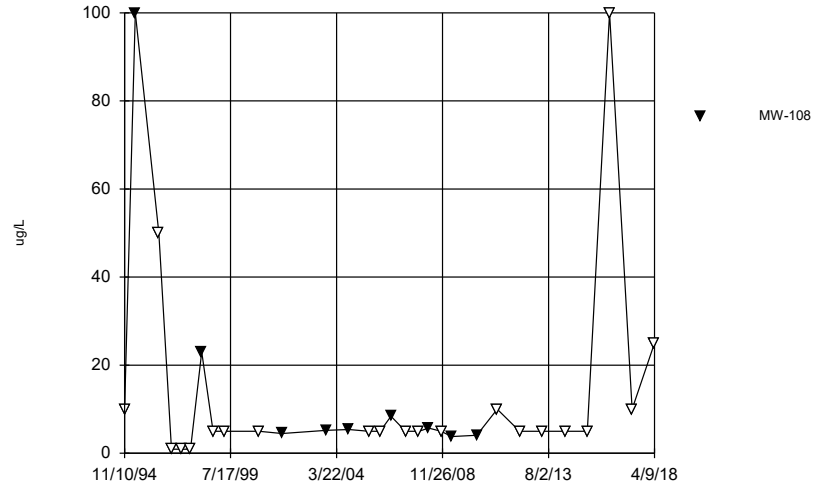

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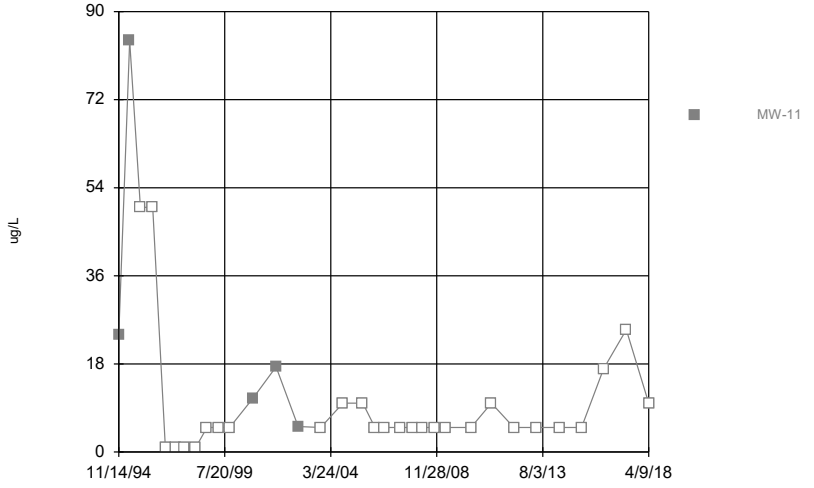

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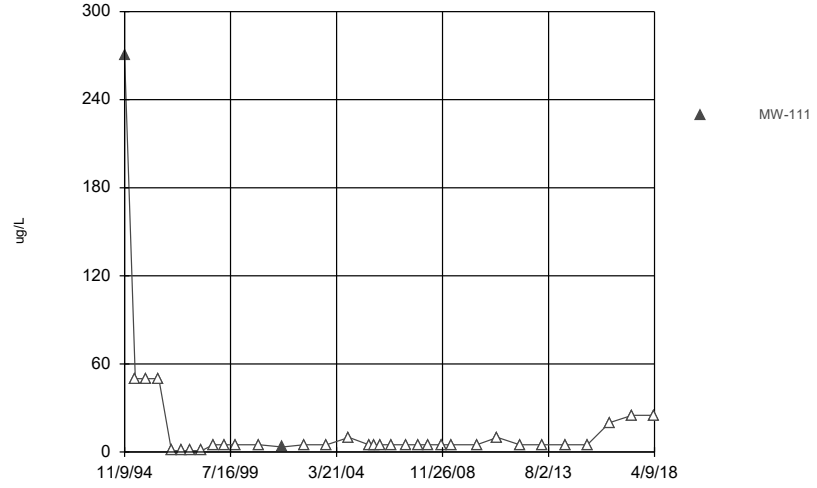

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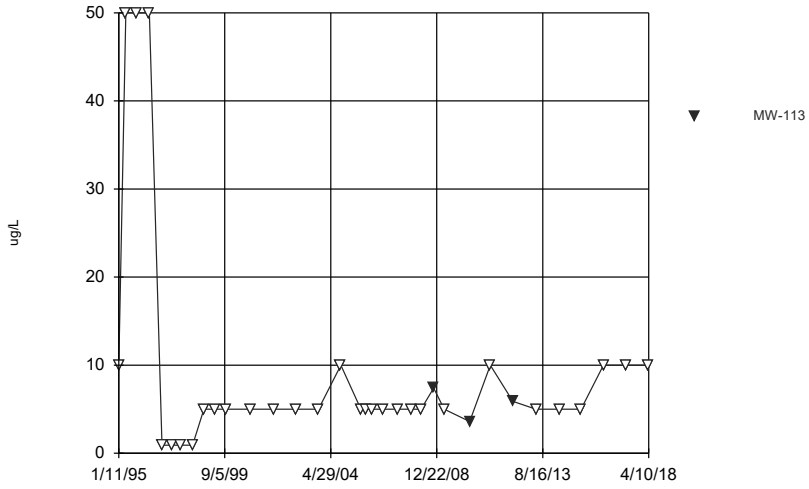

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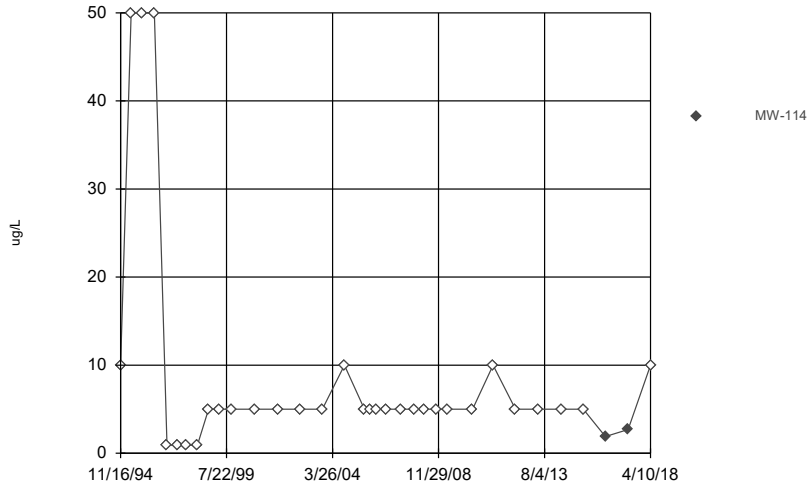
Time Series



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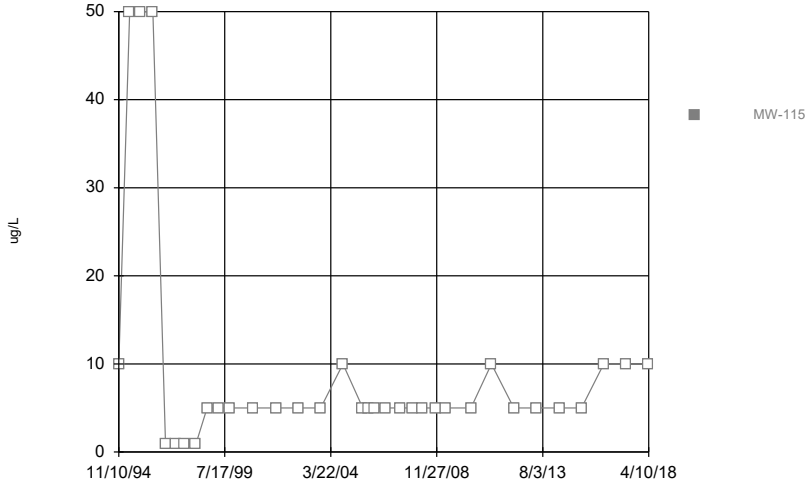
Time Series



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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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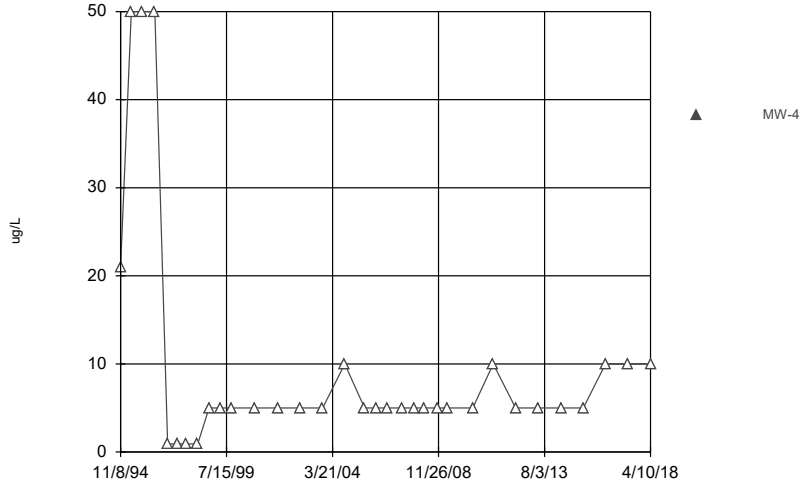
Time Series



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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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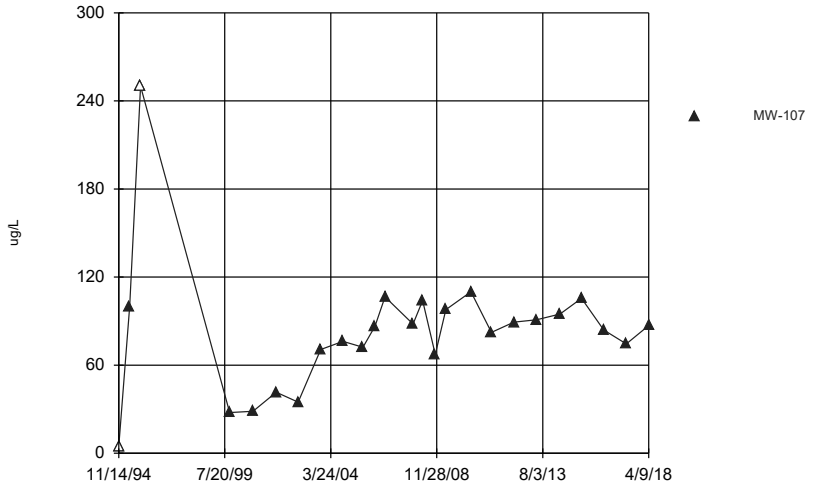
Time Series



Constituent: Benzene Analysis Run 9/25/2018 11:41 AM View: WTU Time Series
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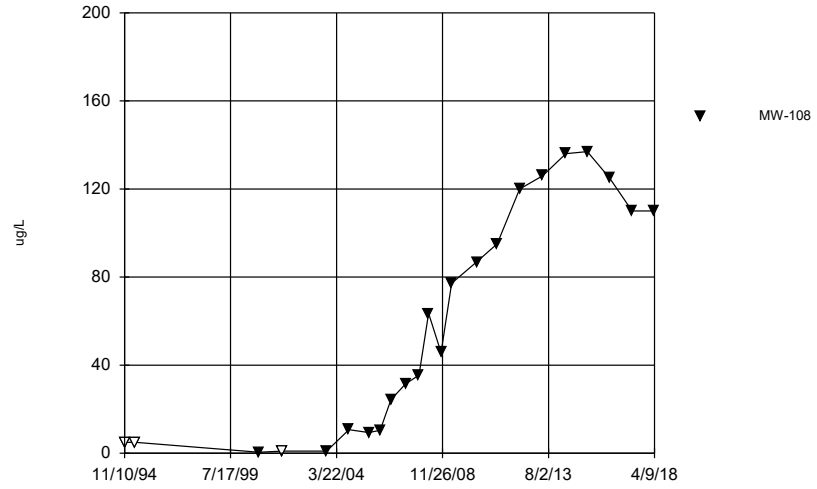
Hollow symbols indicate censored values.

Time Series



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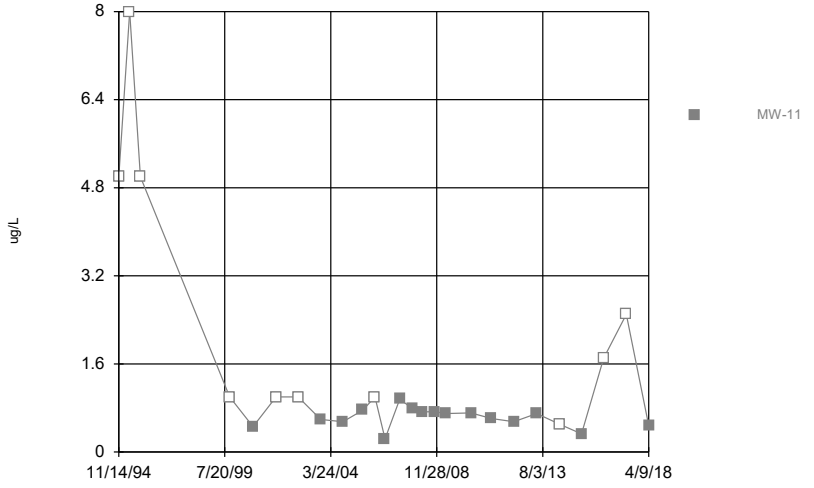
Time Series



Constituent: Benzene Analysis Run 9/25/2018 11:41 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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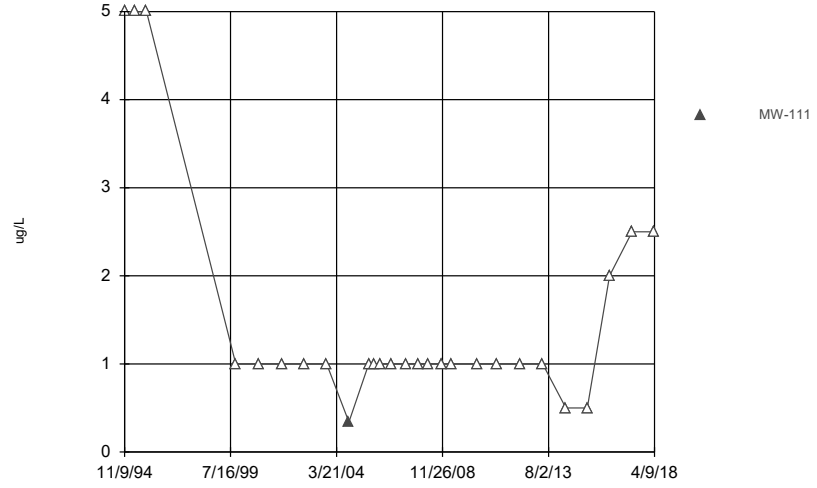
Time Series



Constituent: Benzene Analysis Run 9/25/2018 11:41 AM View: WTU Time Series
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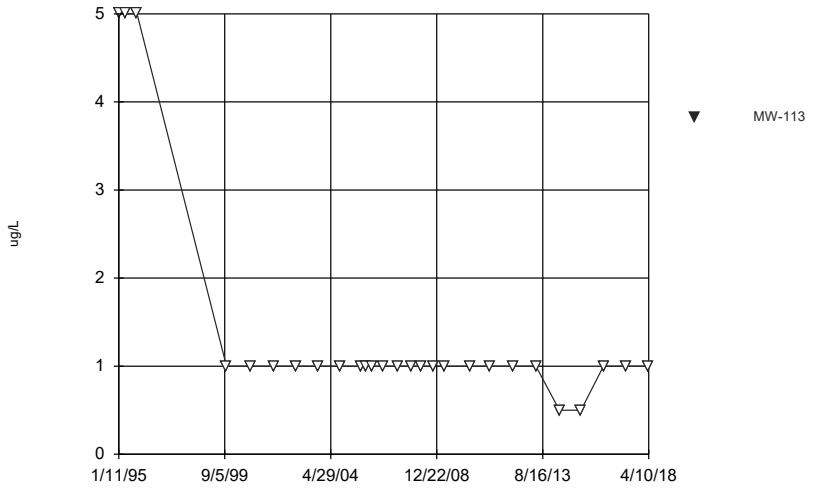

Constituent: Benzene Analysis Run 9/25/2018 11:41 AM View: WTU Time Series
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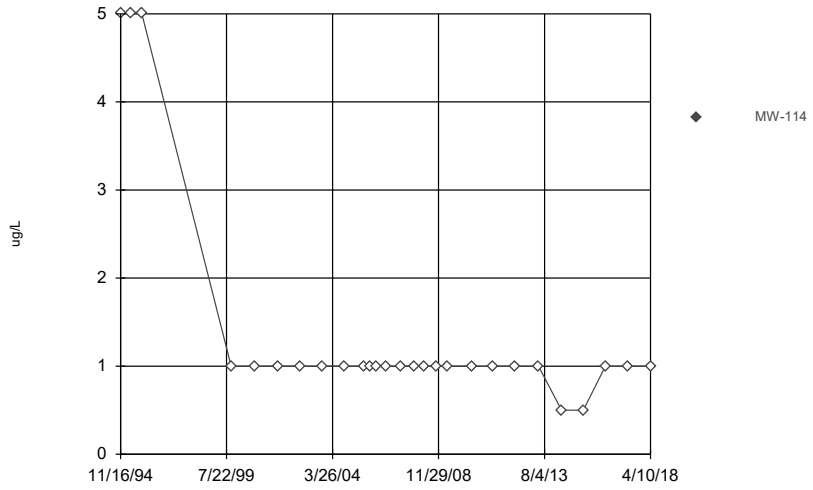

Constituent: Benzene Analysis Run 9/25/2018 11:41 AM View: WTU Time Series
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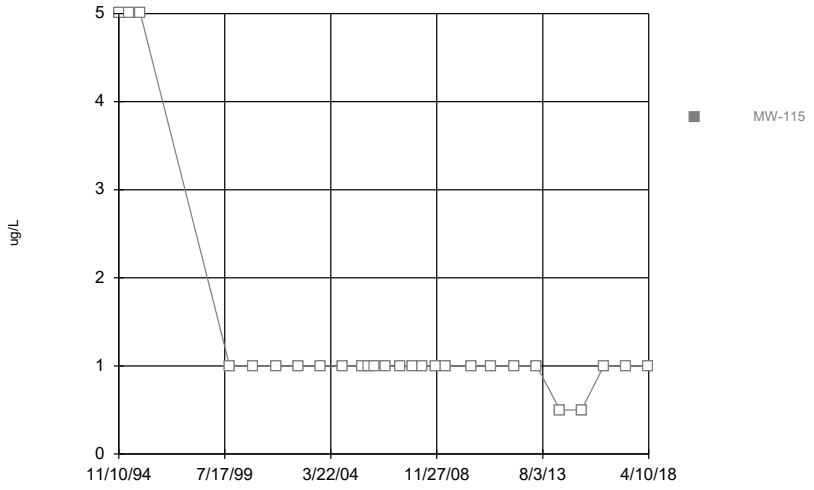
Hollow symbols indicate censored values.

Time Series



Constituent: Benzene Analysis Run 9/25/2018 11:41 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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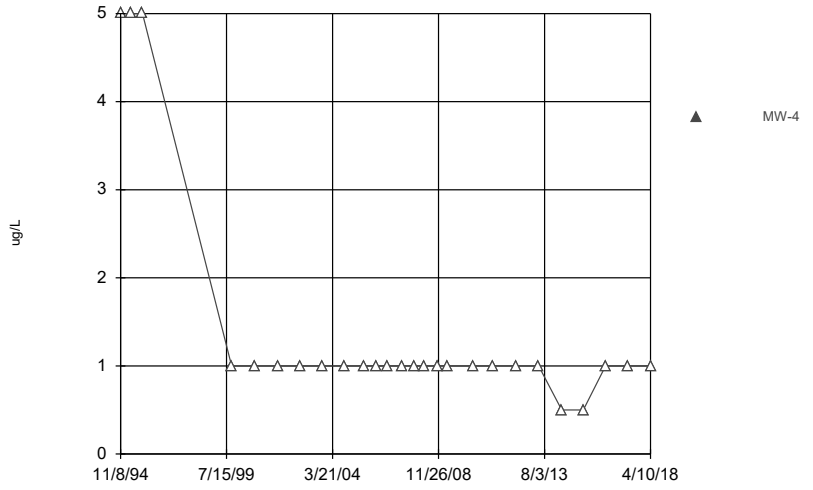
Hollow symbols indicate censored values.

Time Series



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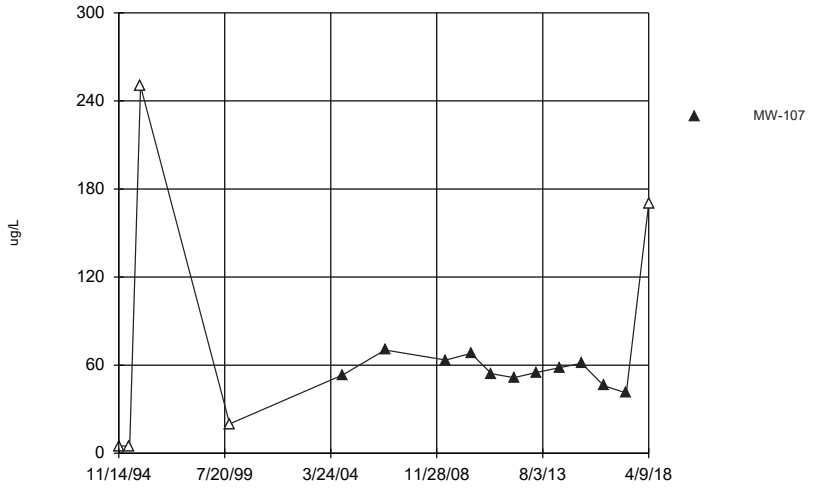

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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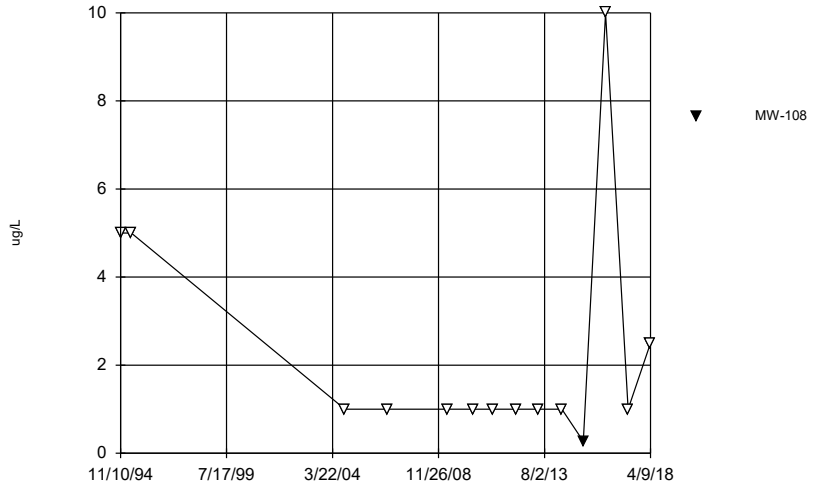

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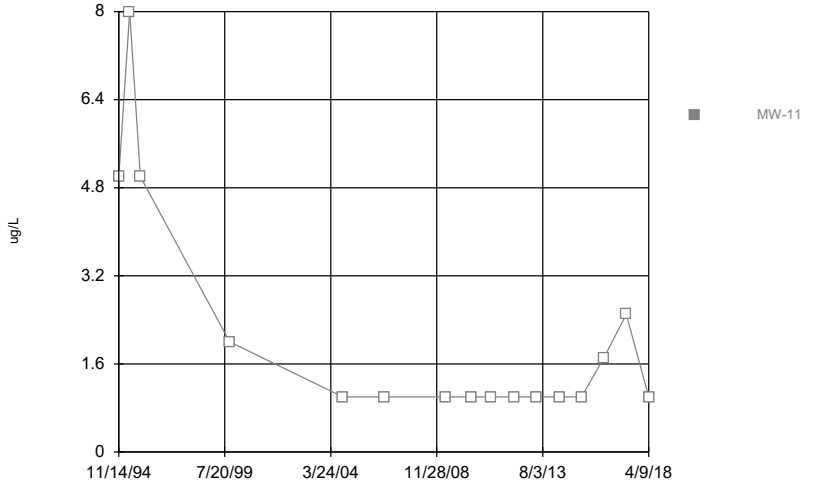

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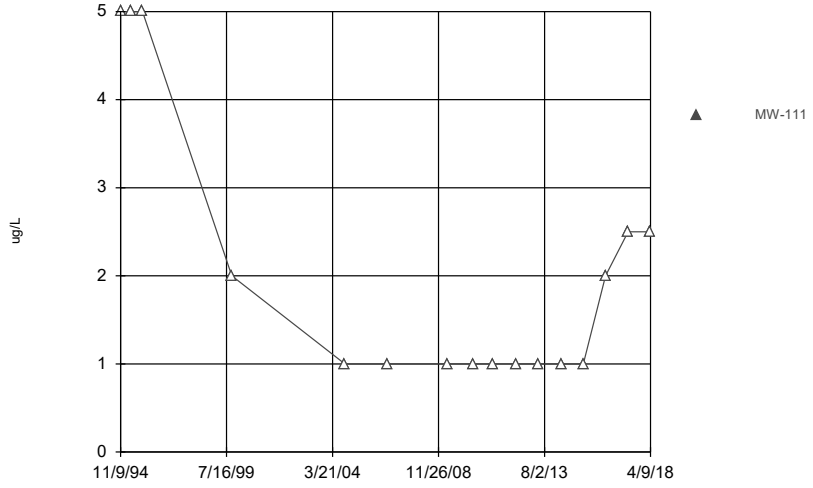

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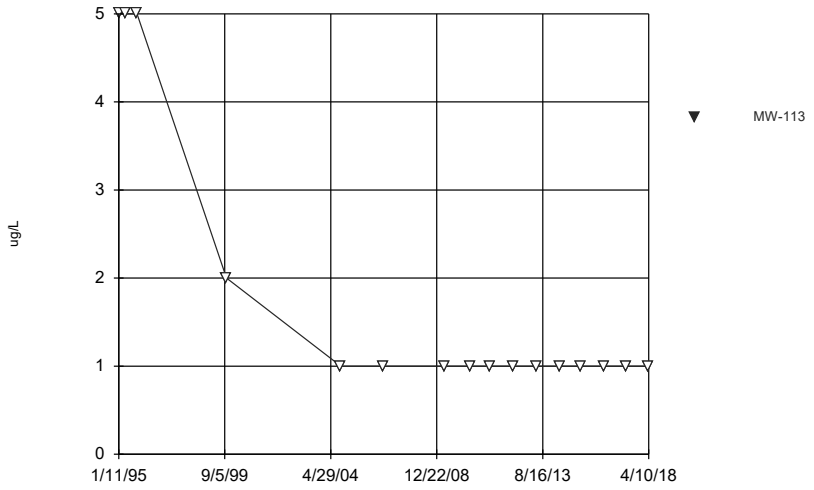

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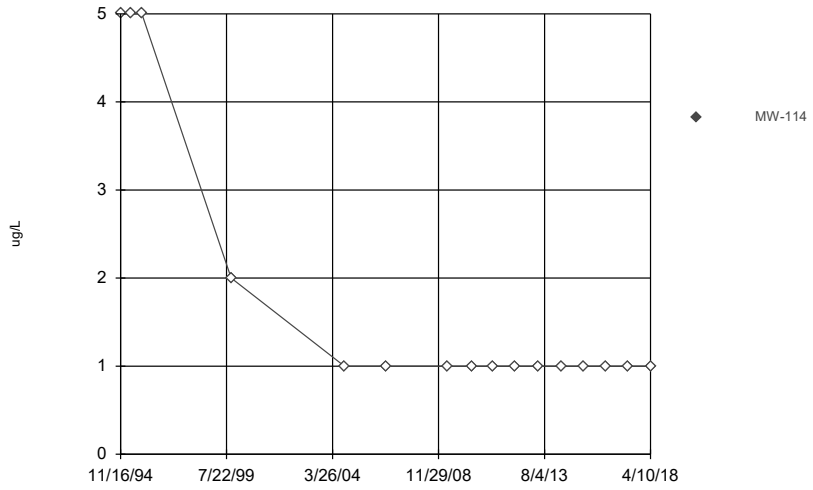

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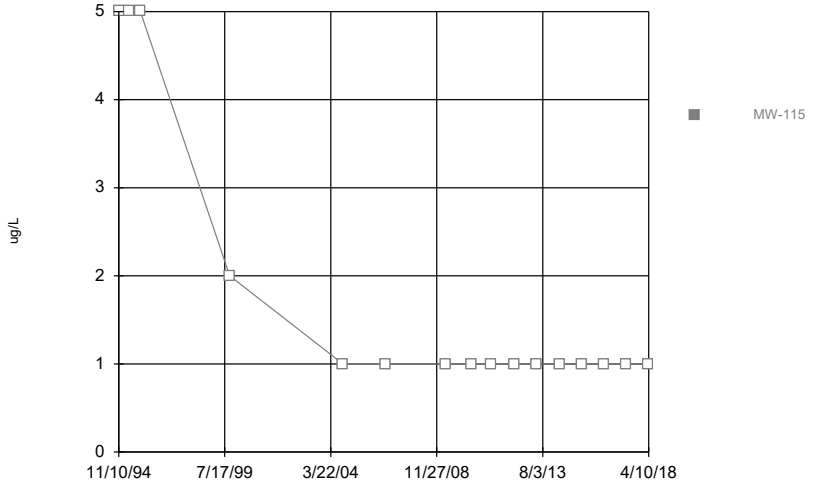

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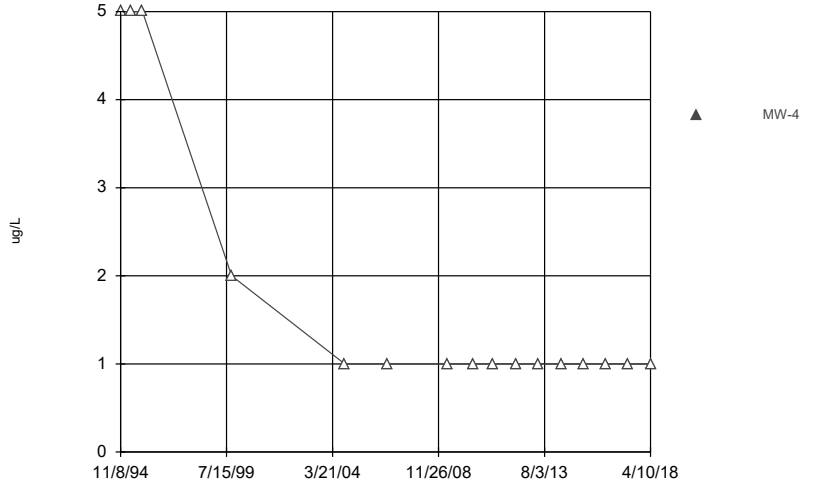

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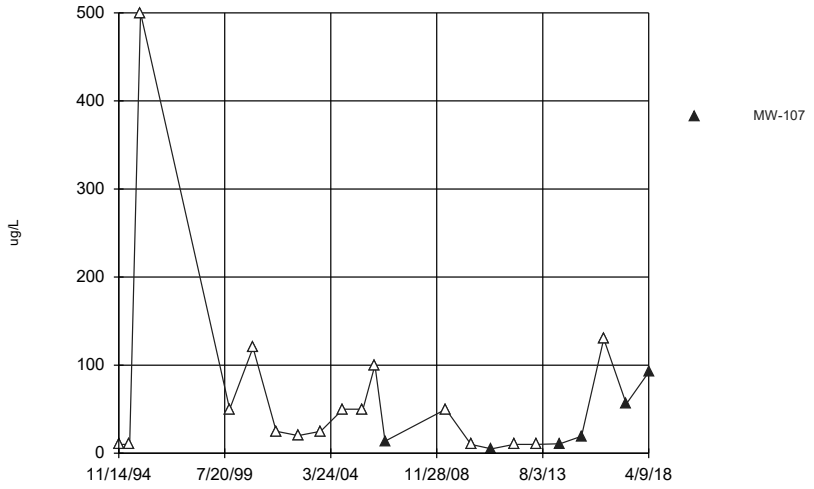

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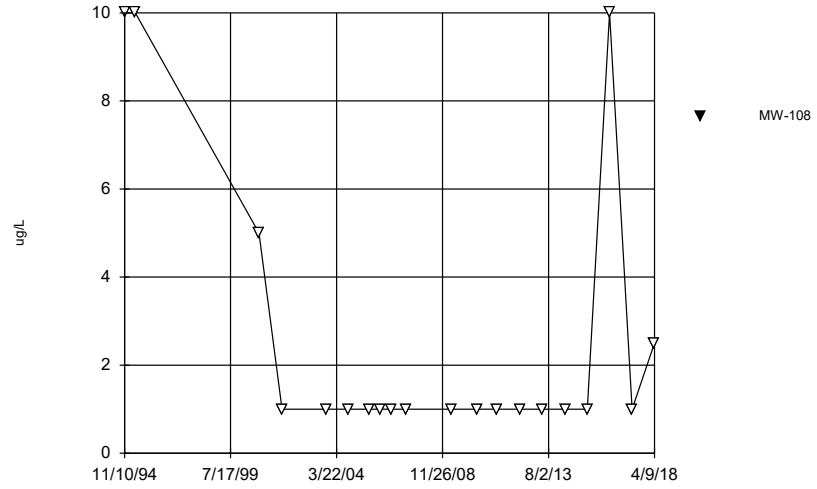
Time Series



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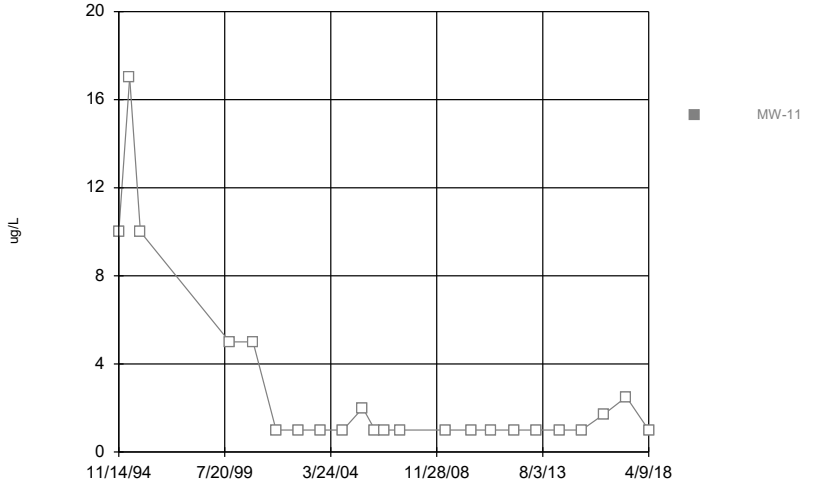

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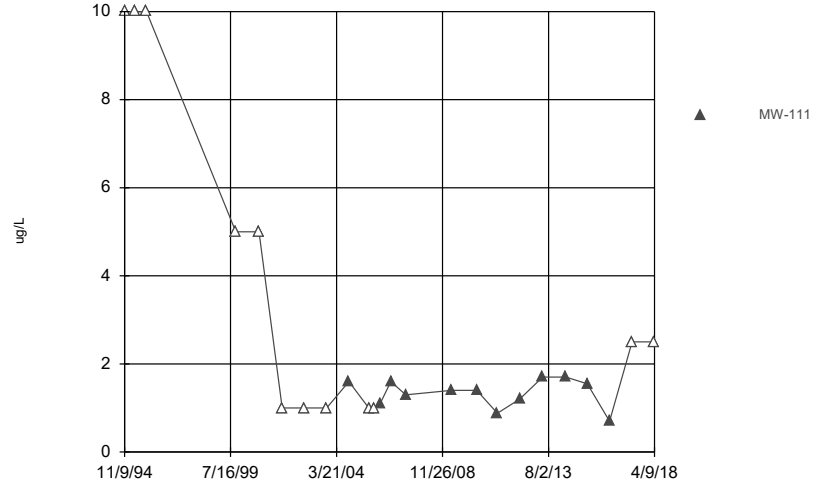

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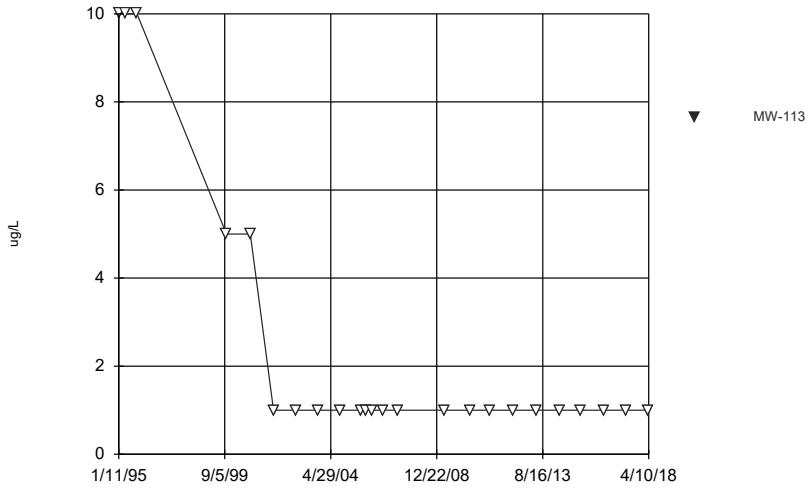

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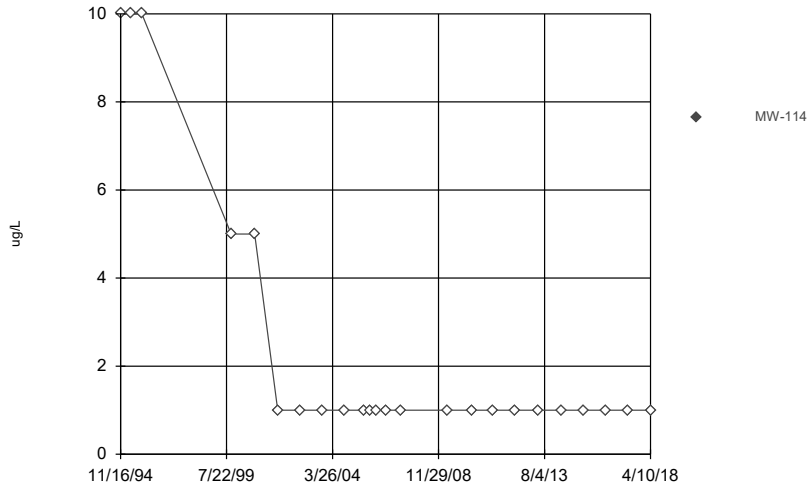

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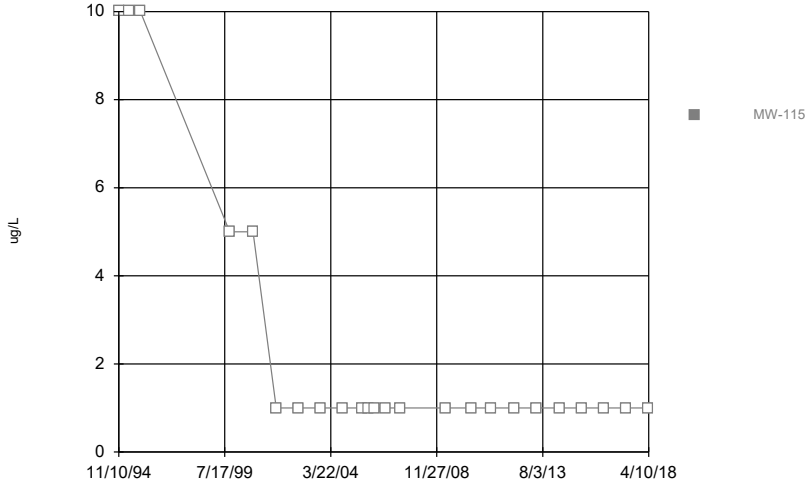

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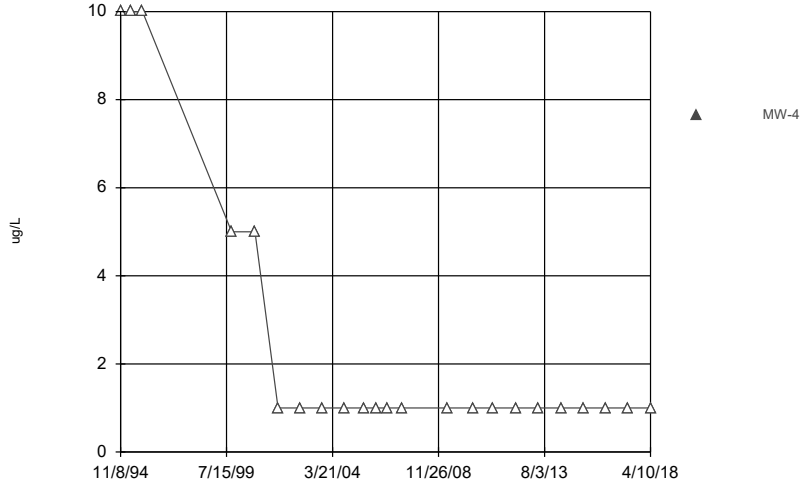

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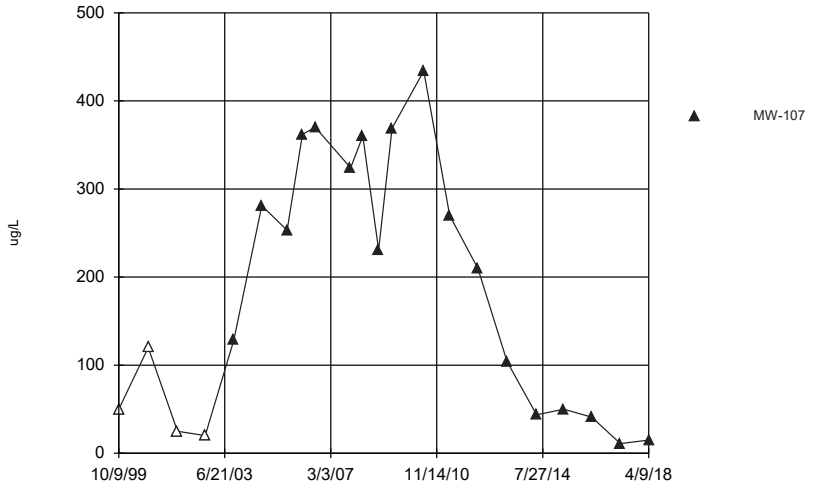

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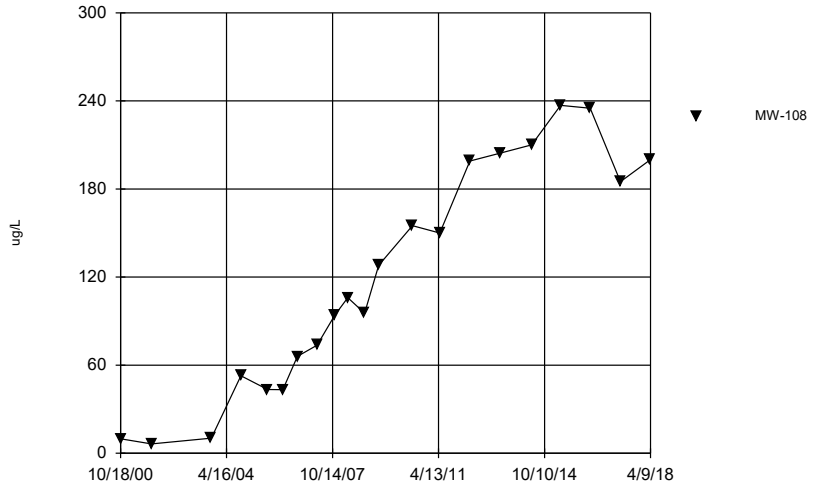

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG

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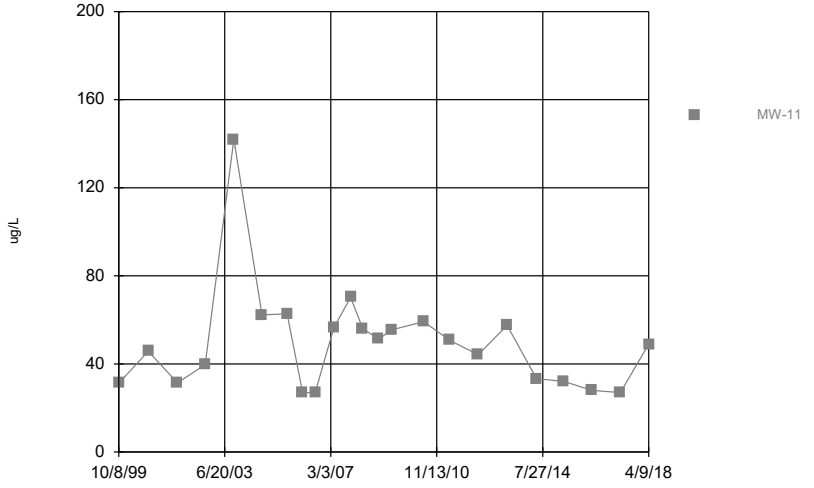

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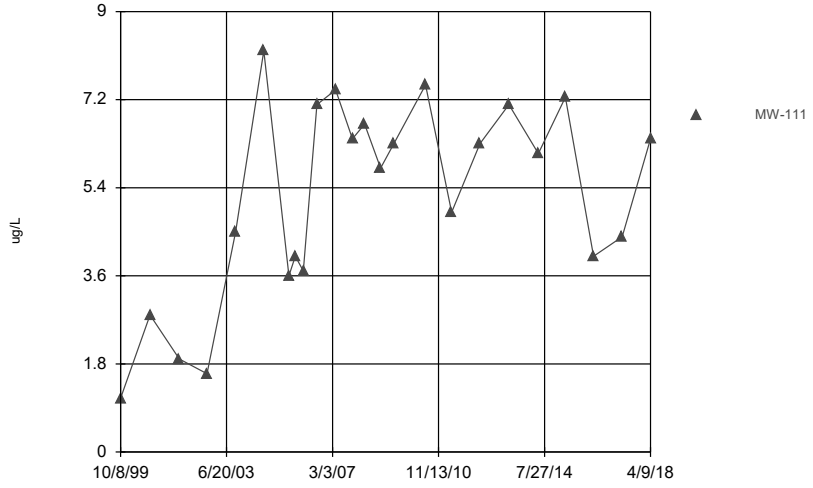

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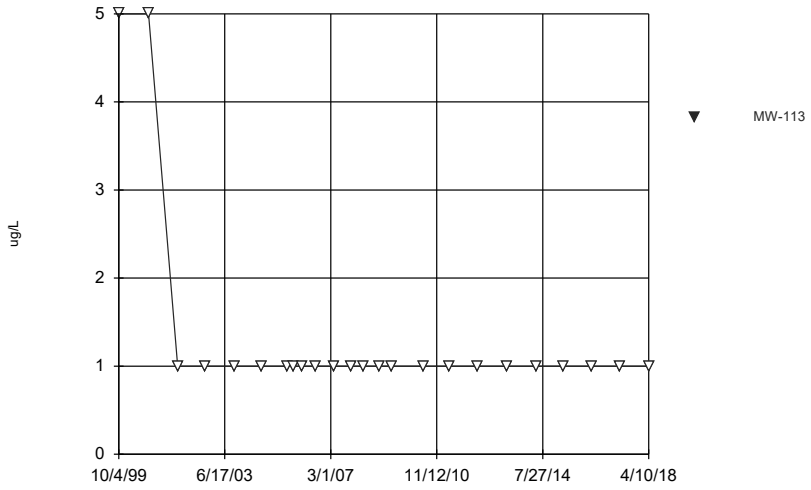

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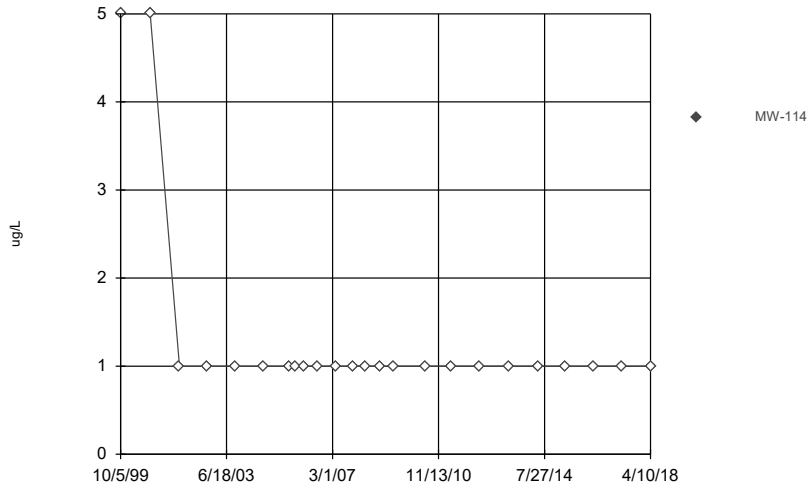

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG

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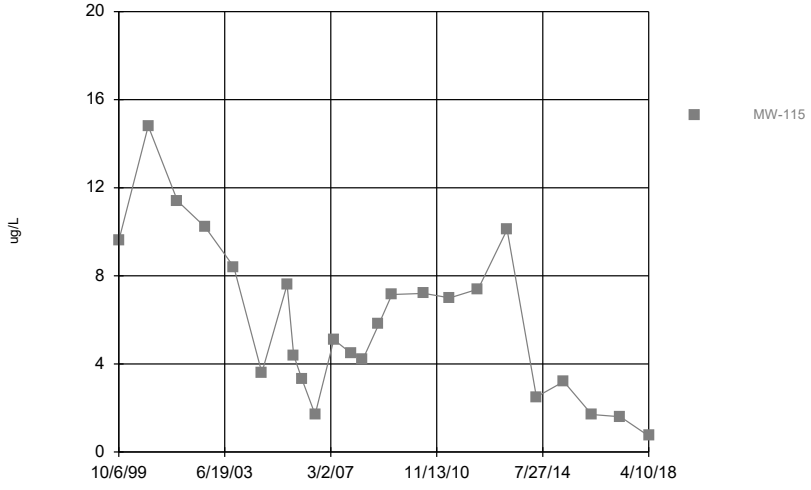

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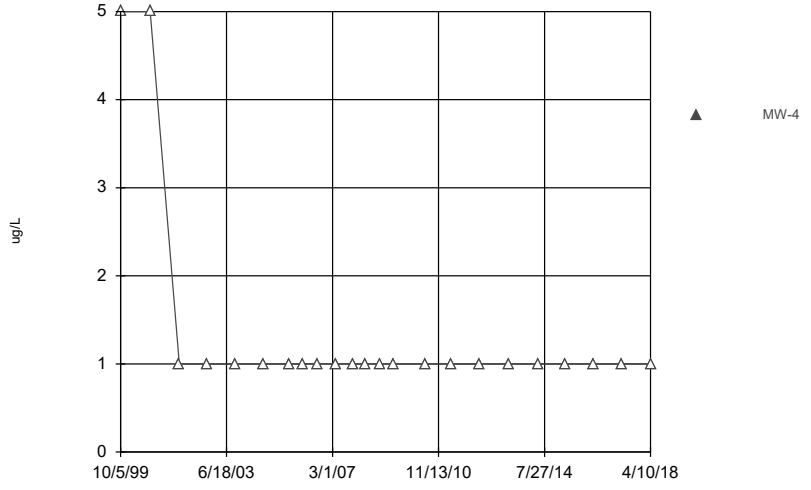

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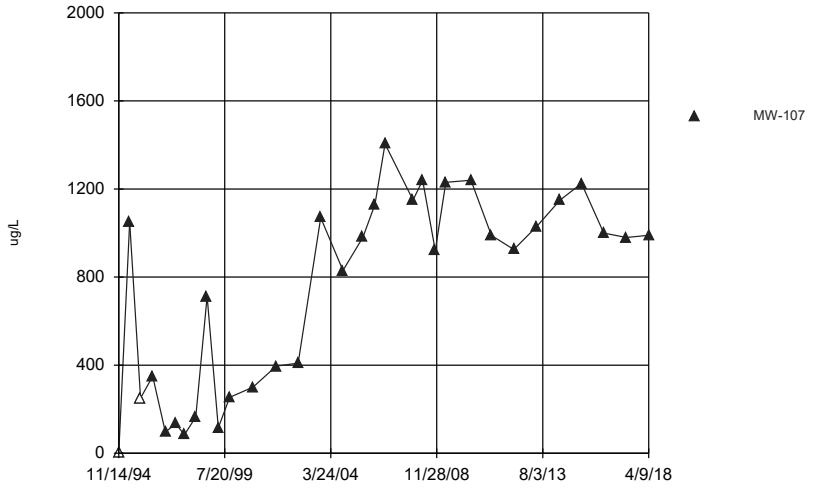

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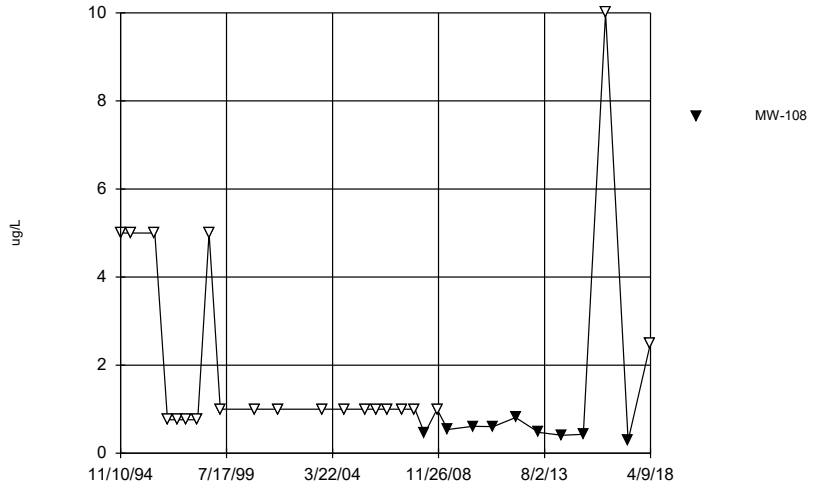

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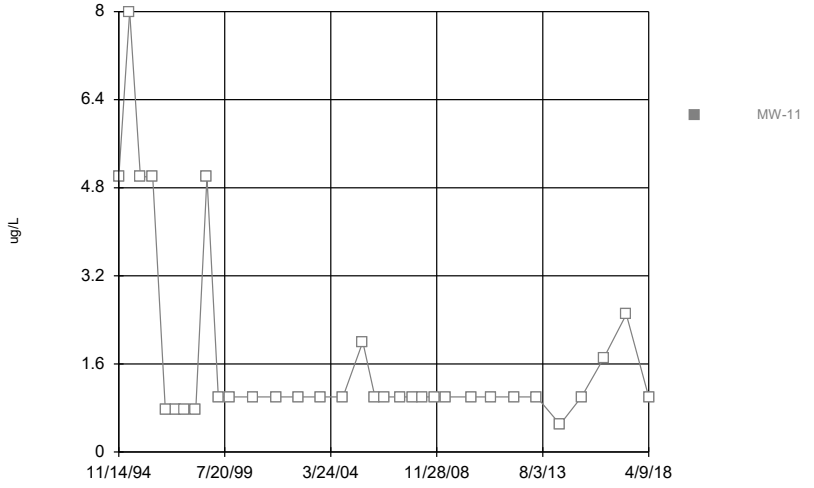

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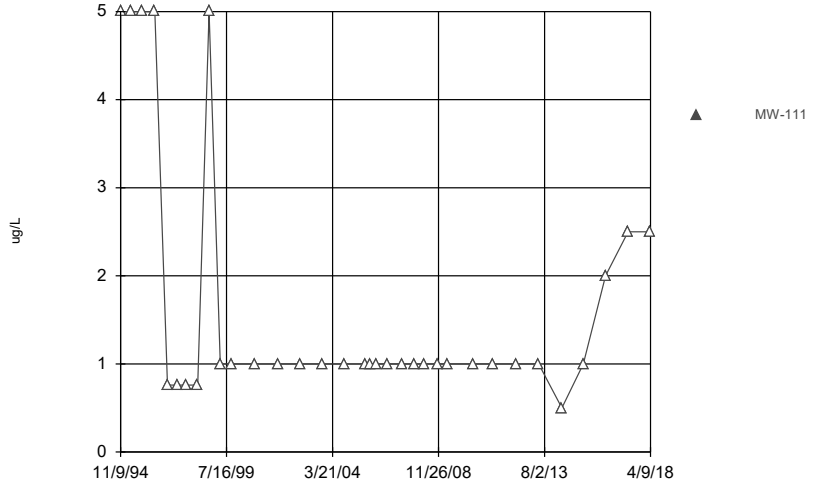

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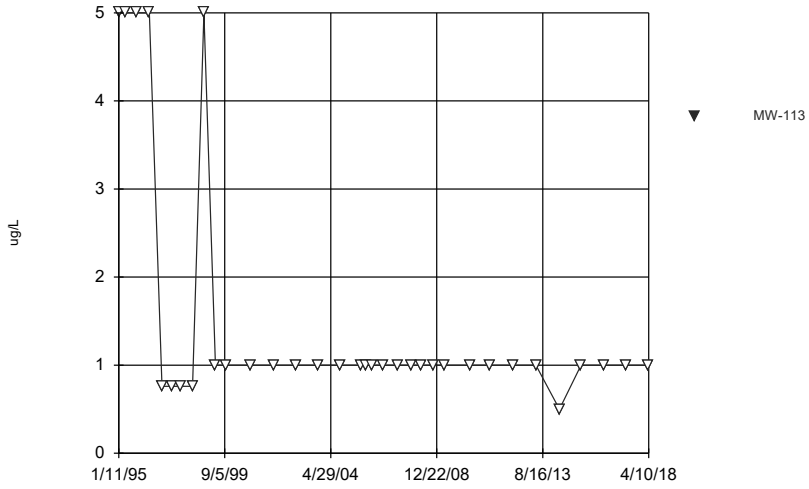

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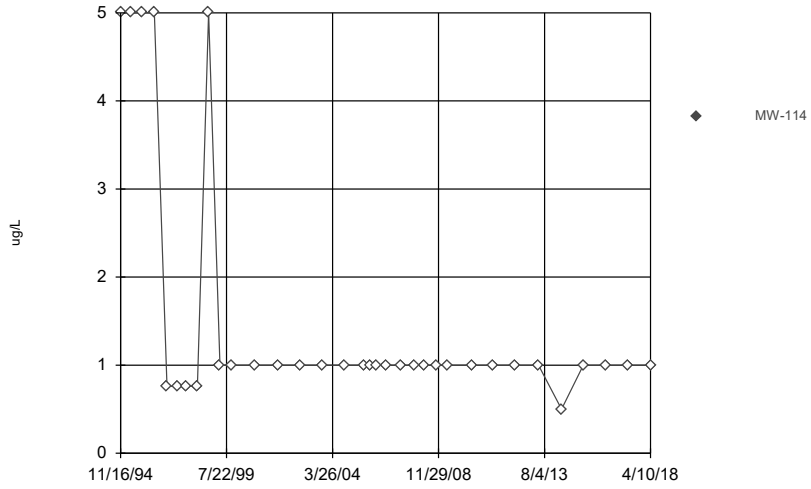

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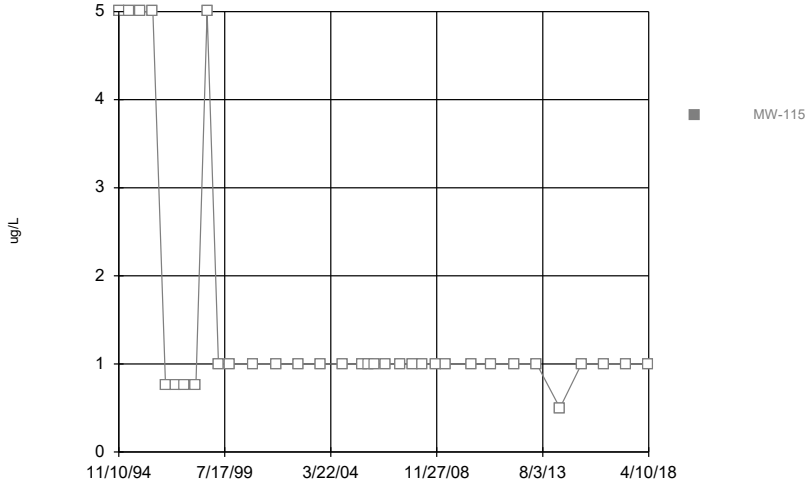

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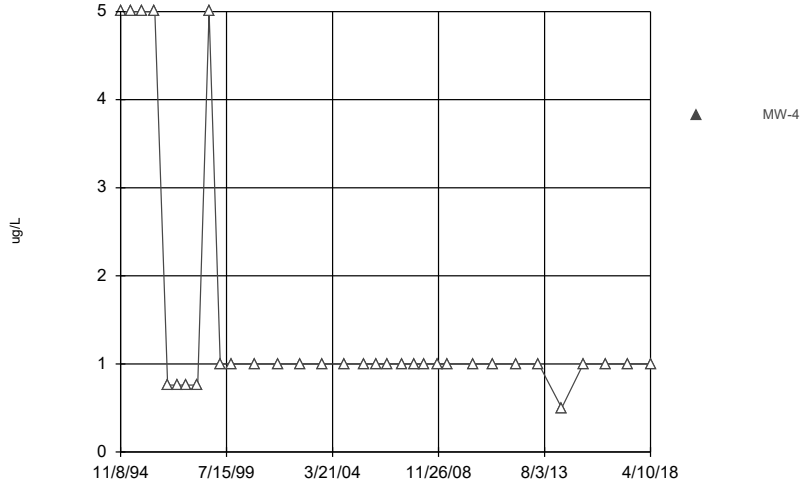

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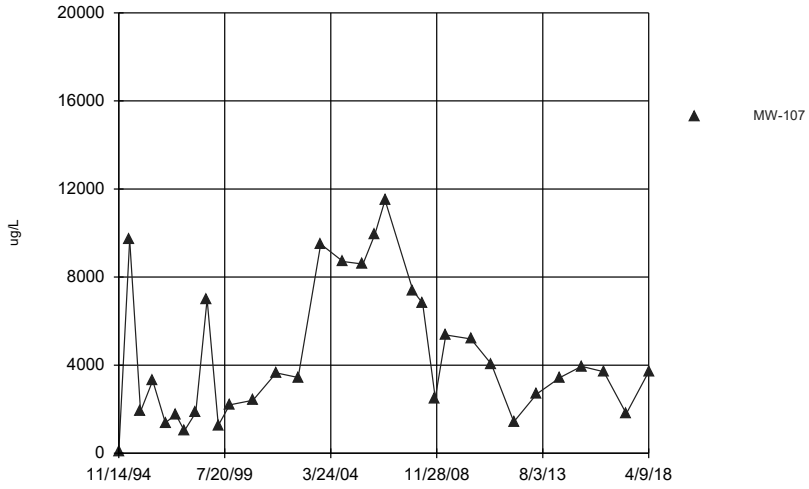
Time Series



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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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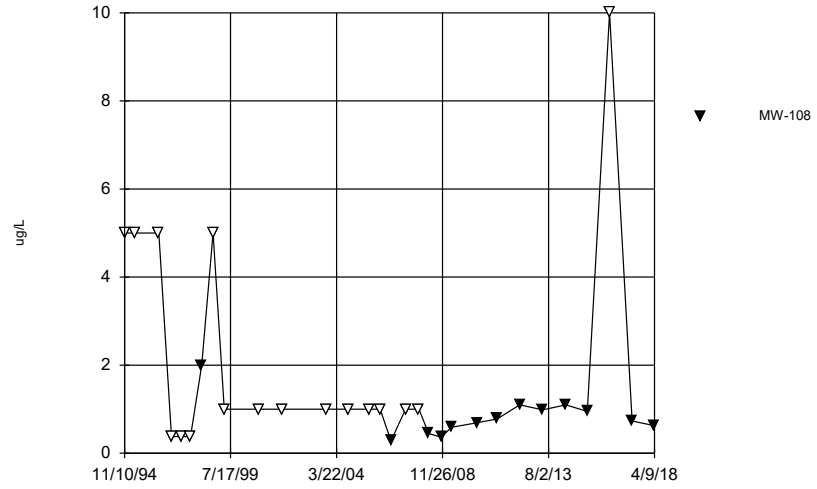
Time Series



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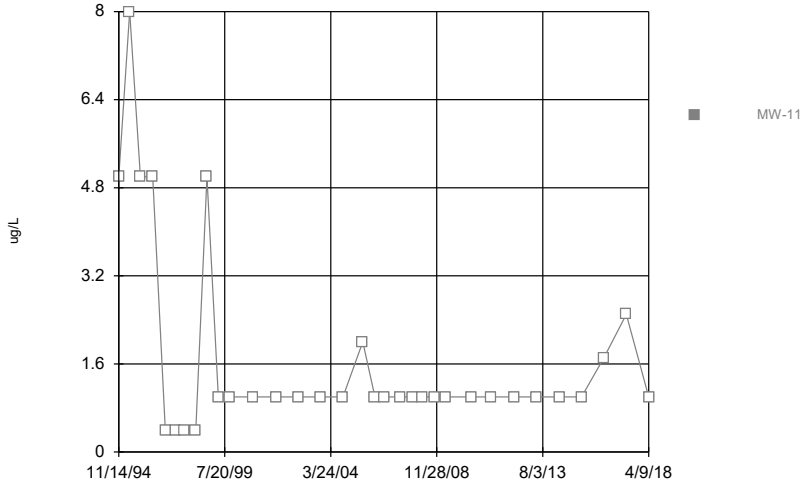
Time Series



Constituent: Toluene Analysis Run 9/25/2018 11:43 AM View: WTU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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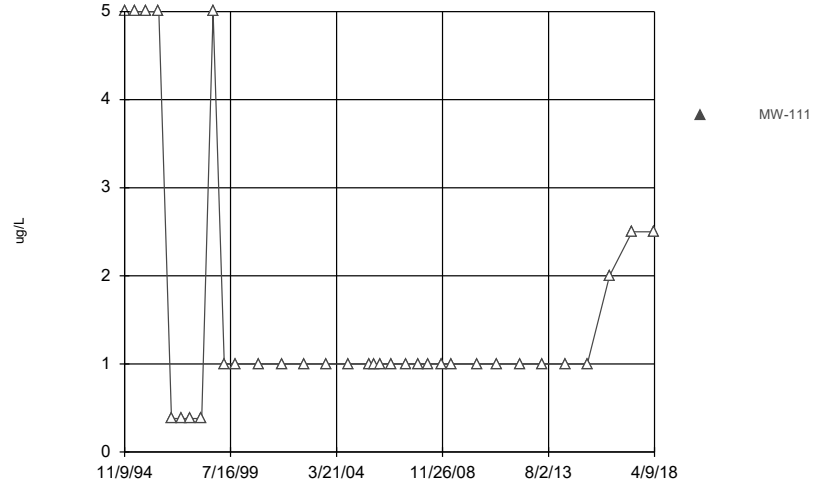
Time Series



Constituent: Toluene Analysis Run 9/25/2018 11:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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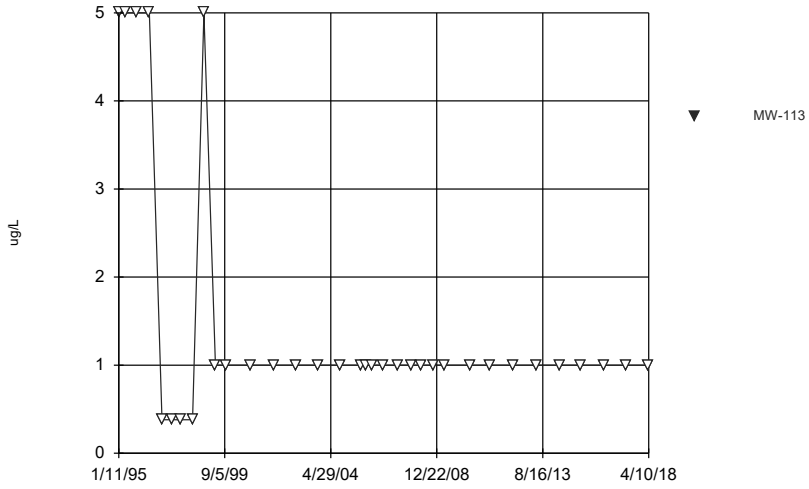
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 9/25/2018 11:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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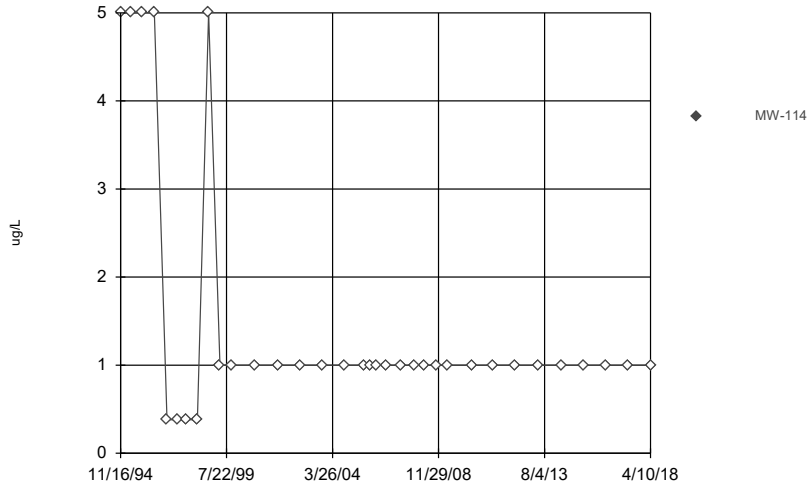
Hollow symbols indicate censored values.

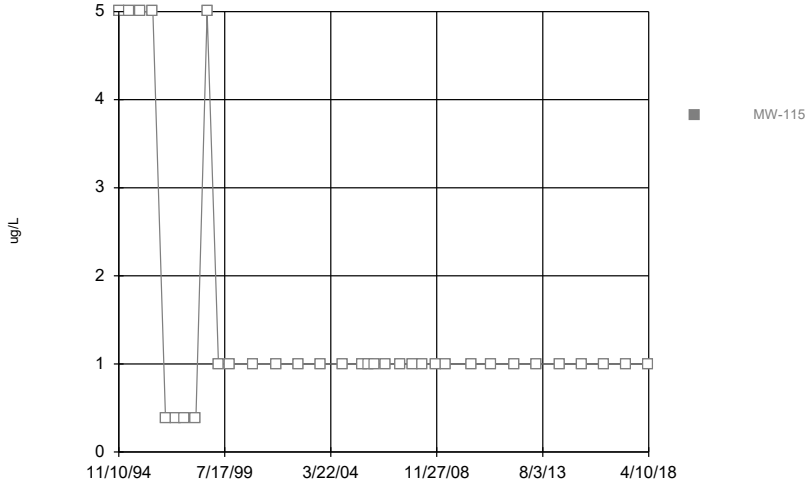
Time Series



Constituent: Toluene Analysis Run 9/25/2018 11:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



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Summit National Site Client: Summit National Site Data: Summit.National.Database

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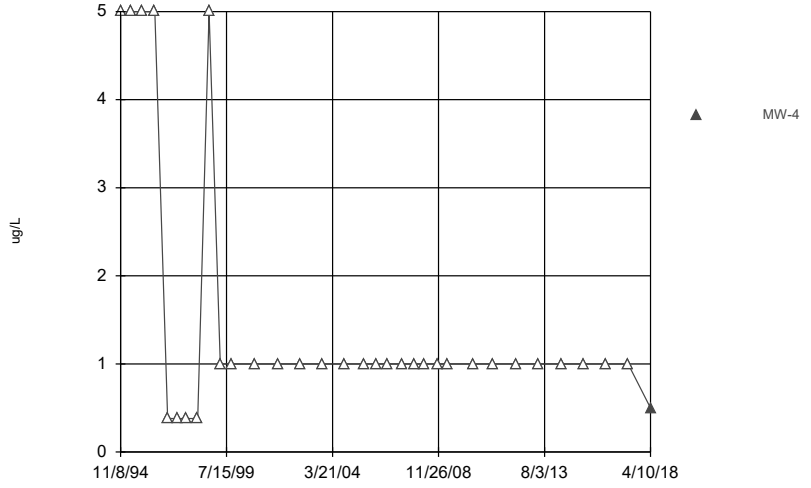
Time Series



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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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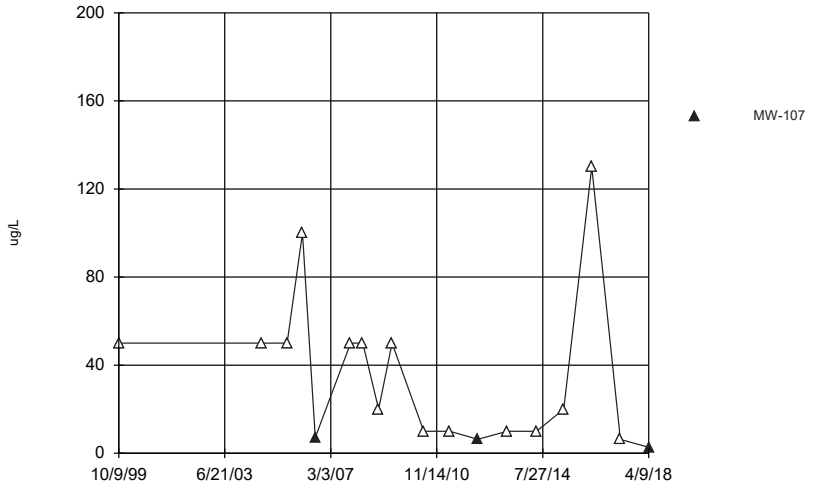
Time Series



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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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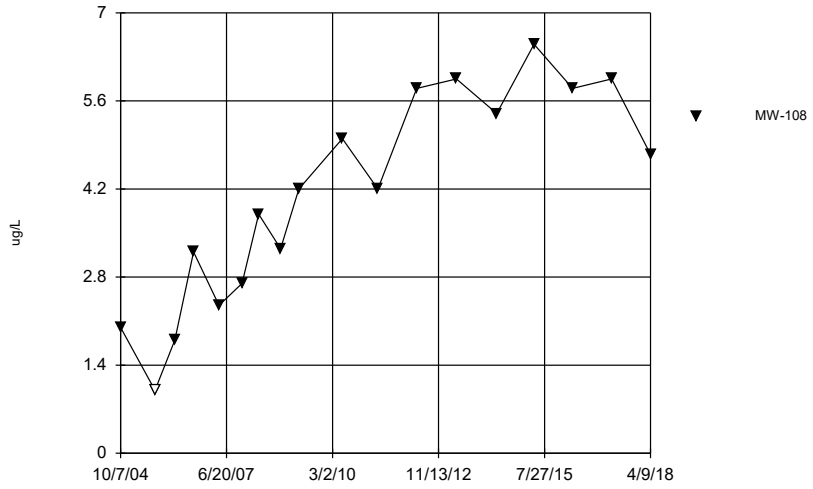

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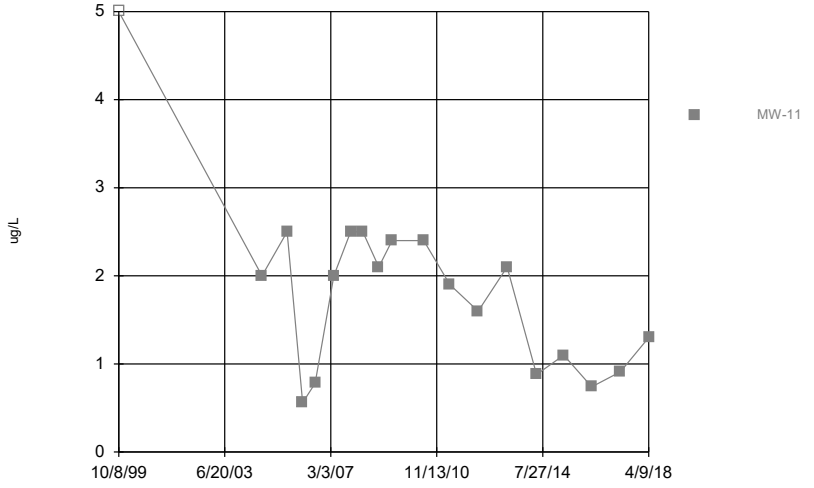

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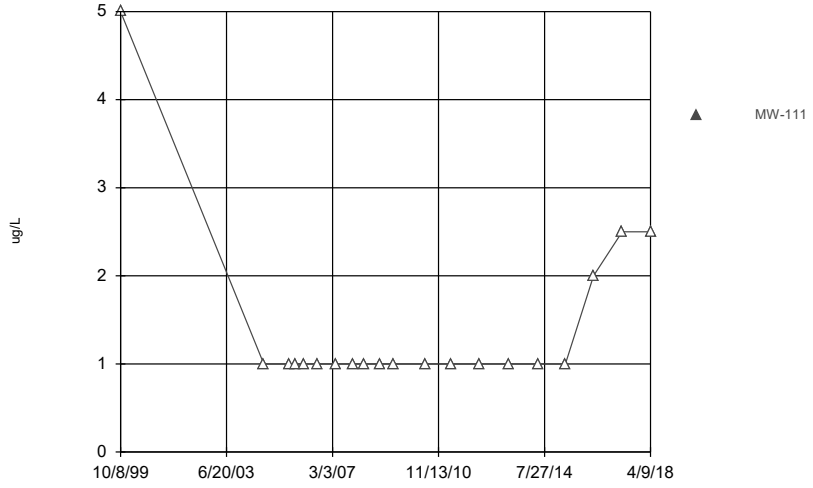

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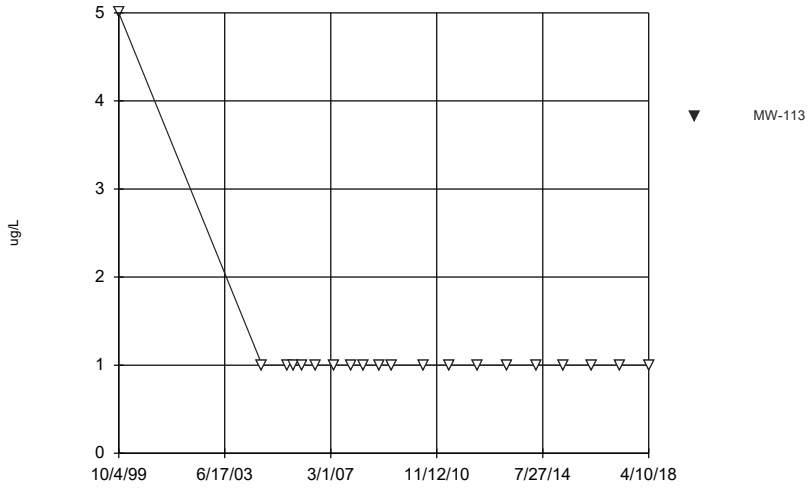

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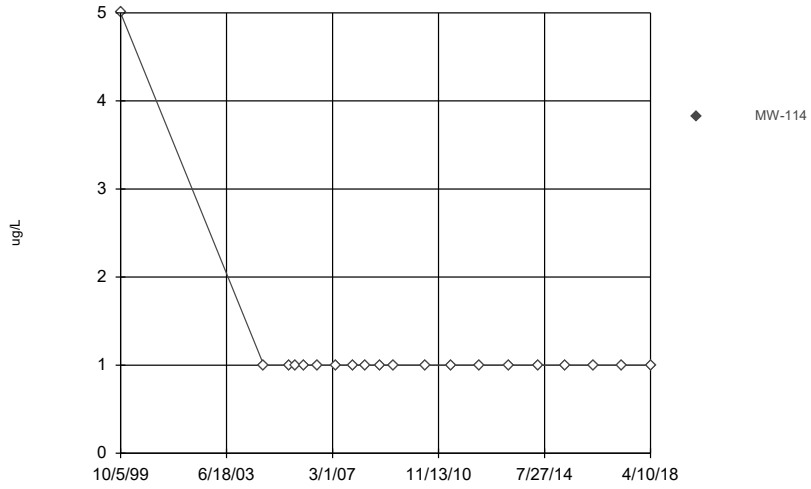

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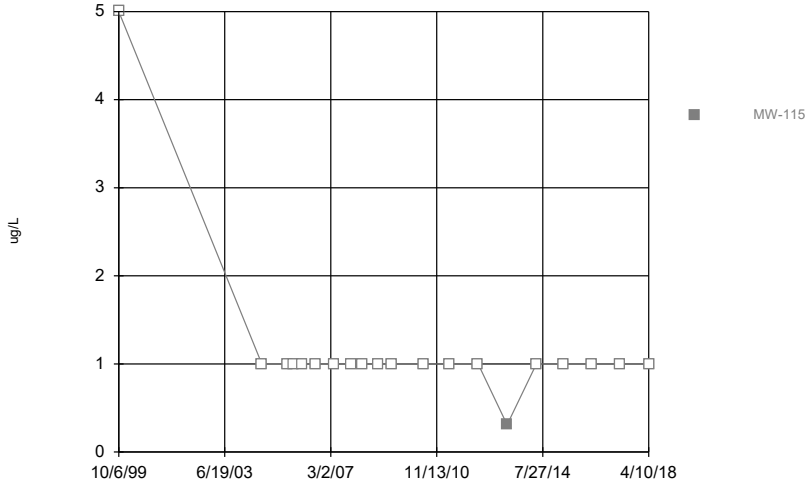

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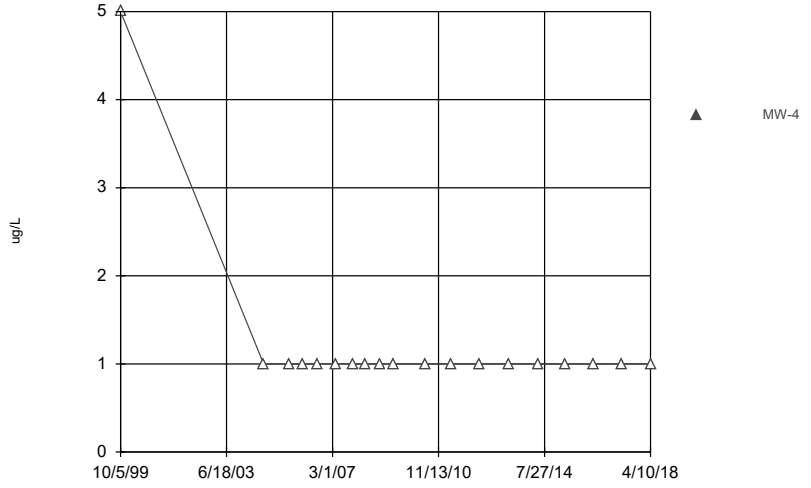
Time Series



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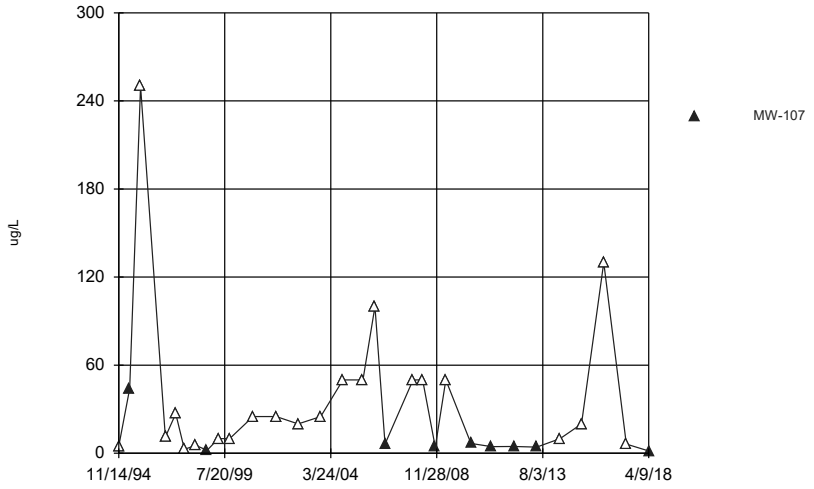

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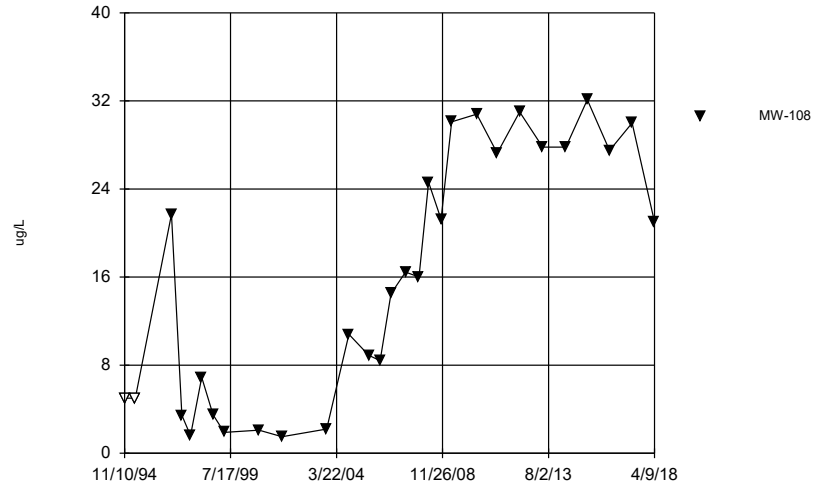

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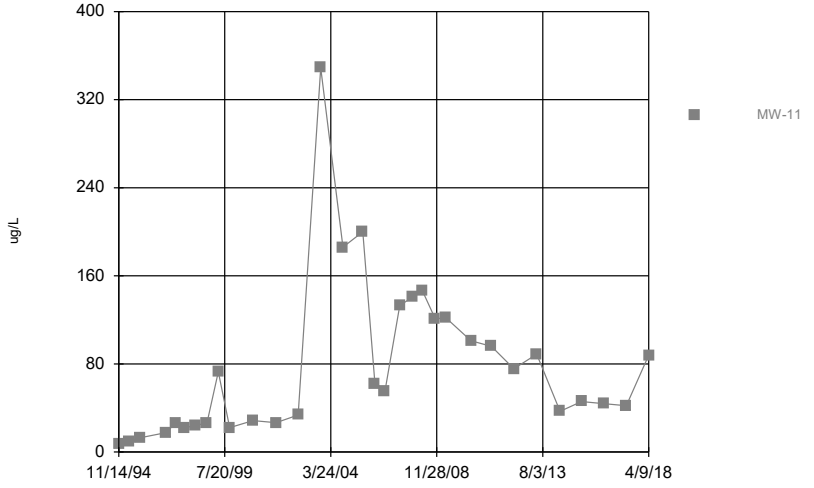
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG

Time Series



Constituent: Trichloroethene Analysis Run 9/25/2018 11:43 AM View: WTU Time Series
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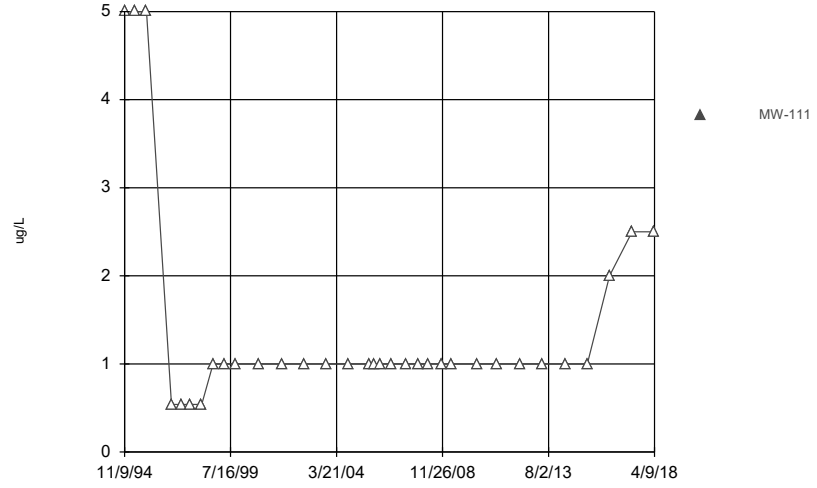
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



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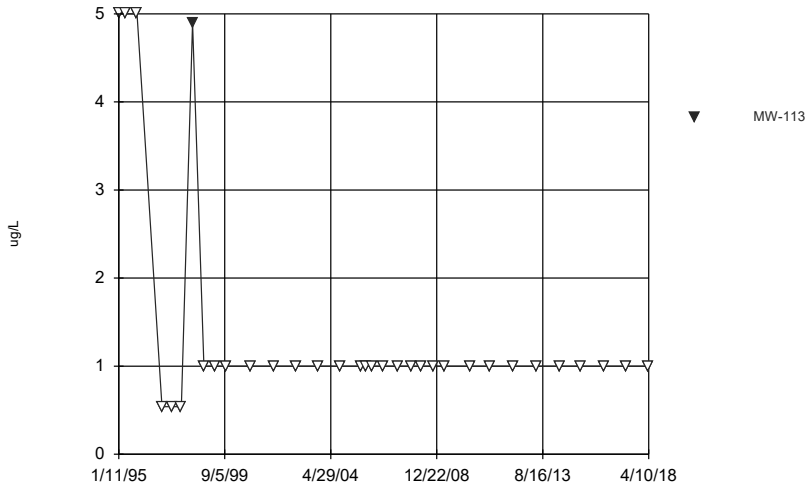

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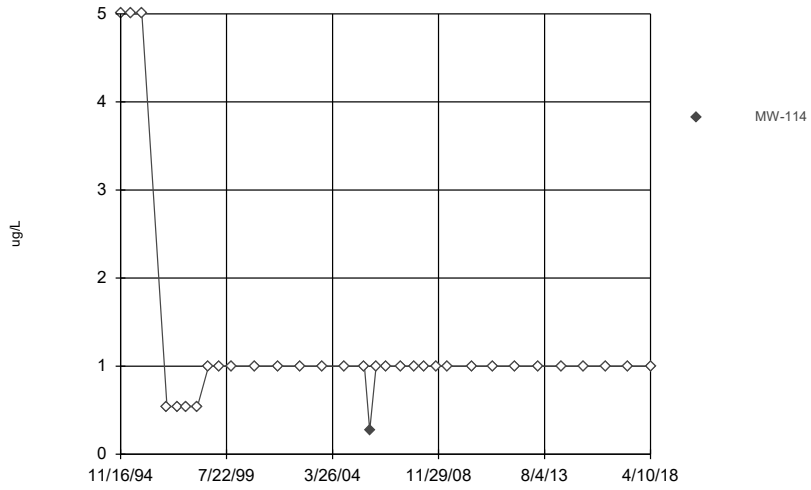

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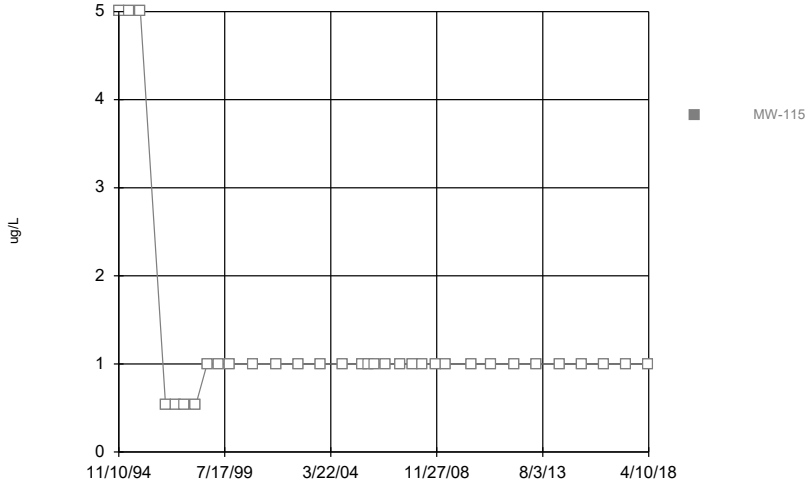

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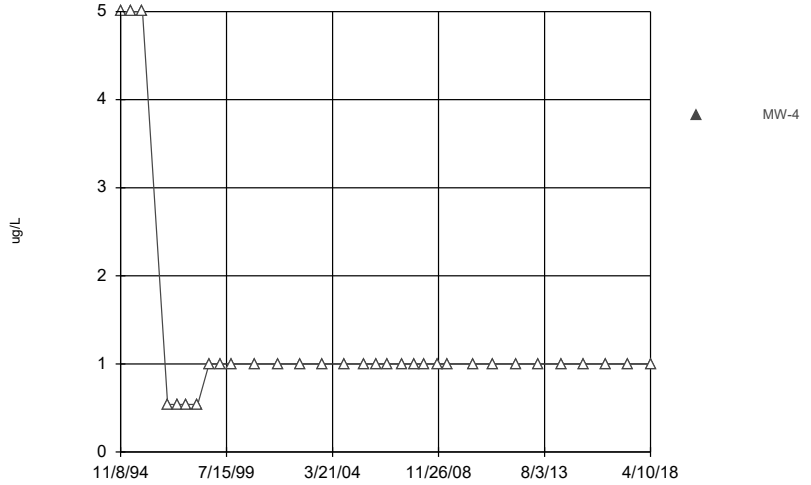

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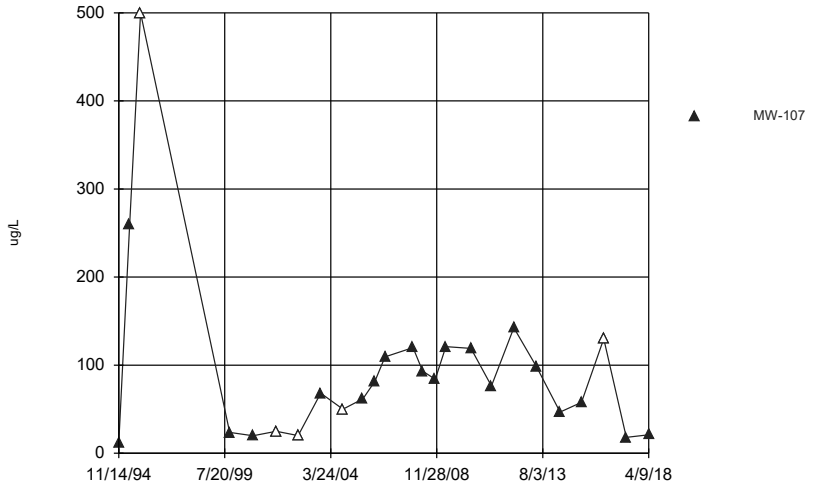

Constituent: Vinyl chloride Analysis Run 9/25/2018 11:43 AM View: WTU Time Series
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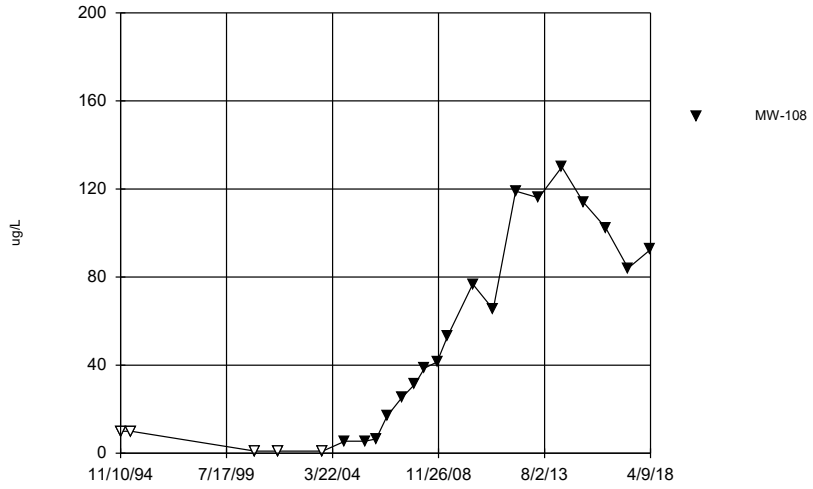

Constituent: Vinyl chloride Analysis Run 9/25/2018 11:43 AM View: WTU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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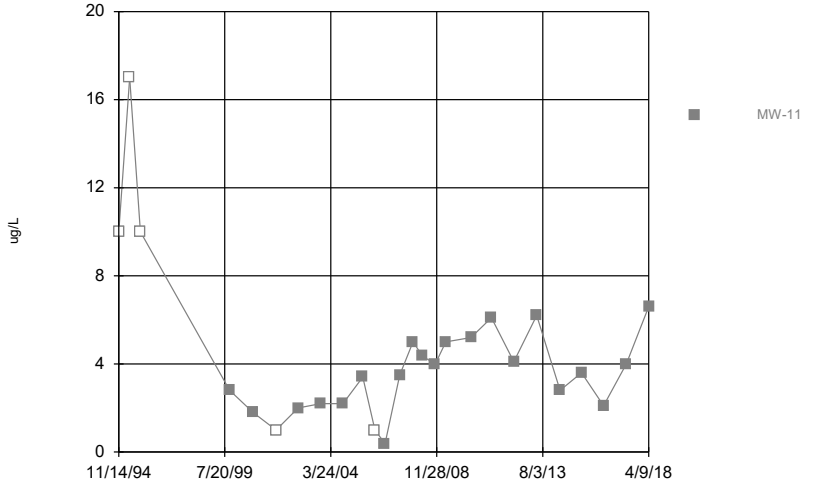
Time Series



Constituent: Vinyl chloride Analysis Run 9/25/2018 11:44 AM View: WTU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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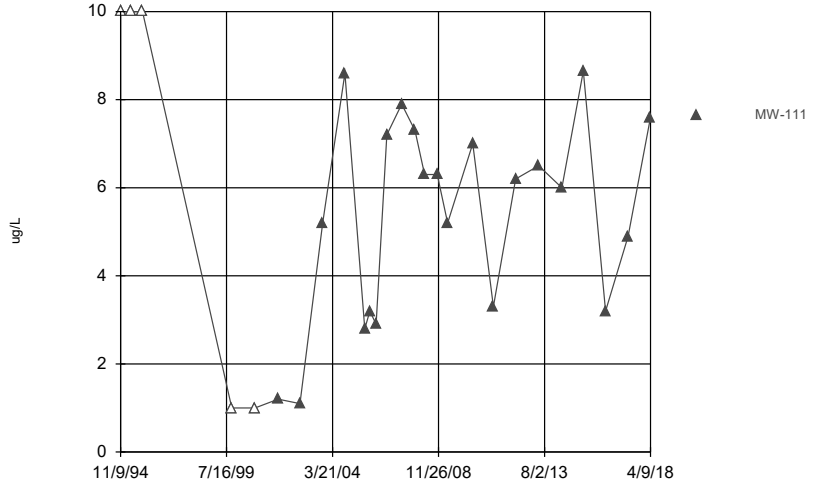

Constituent: Vinyl chloride Analysis Run 9/25/2018 11:44 AM View: WTU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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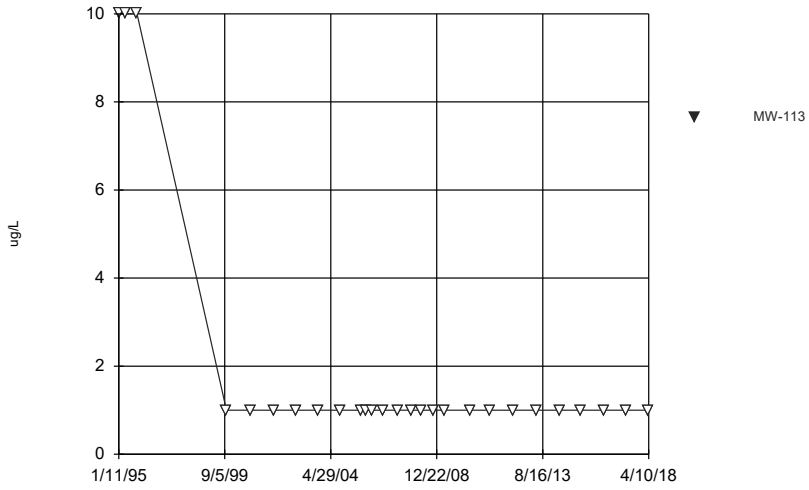

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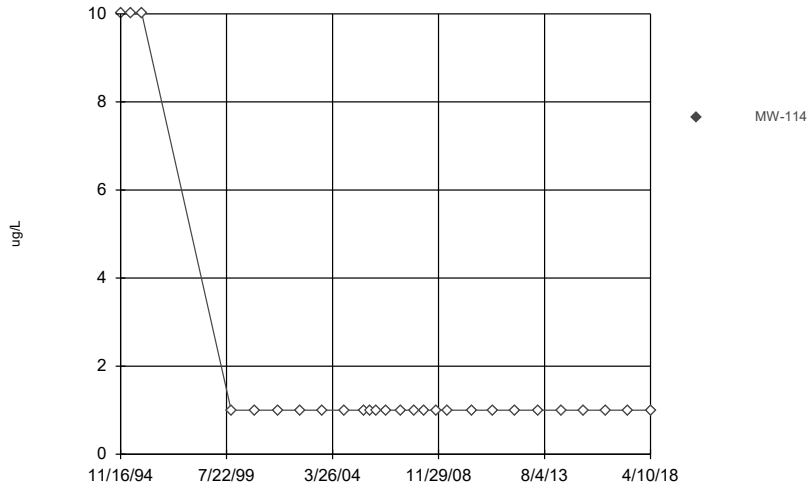

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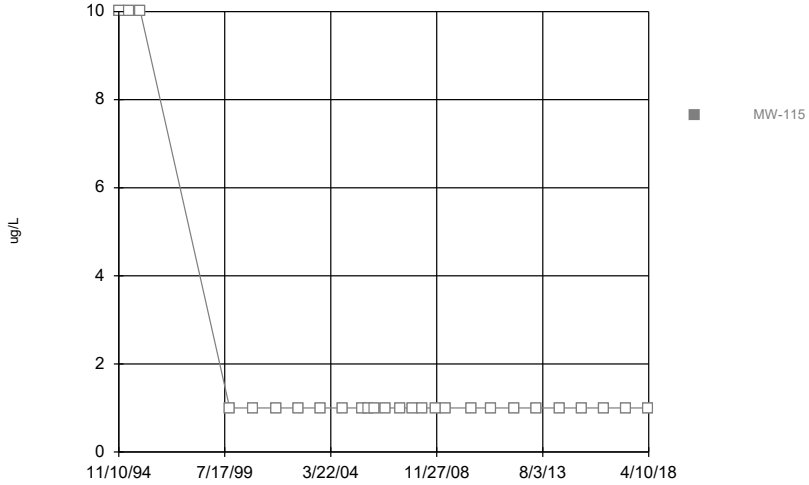

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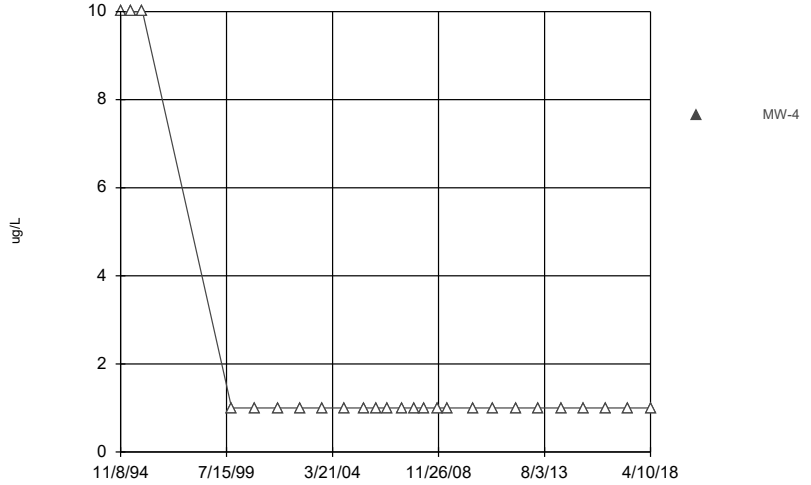

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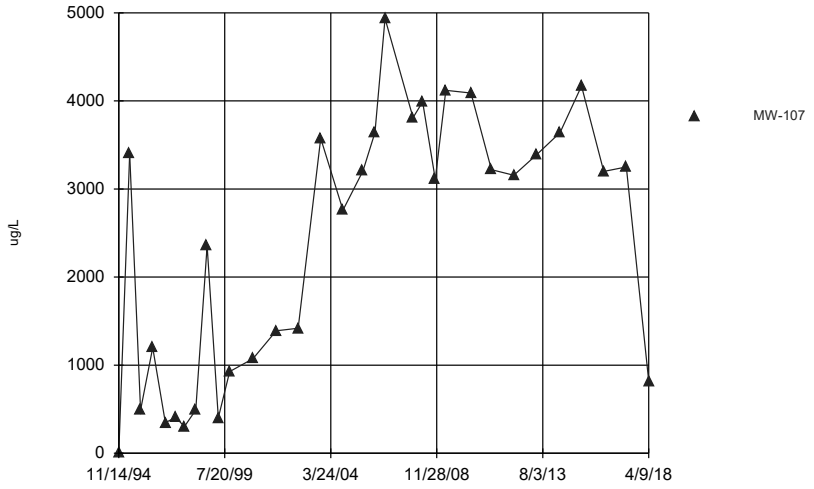
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG

Time Series



Constituent: Xylenes [total] Analysis Run 9/25/2018 11:44 AM View: WTU Time Series
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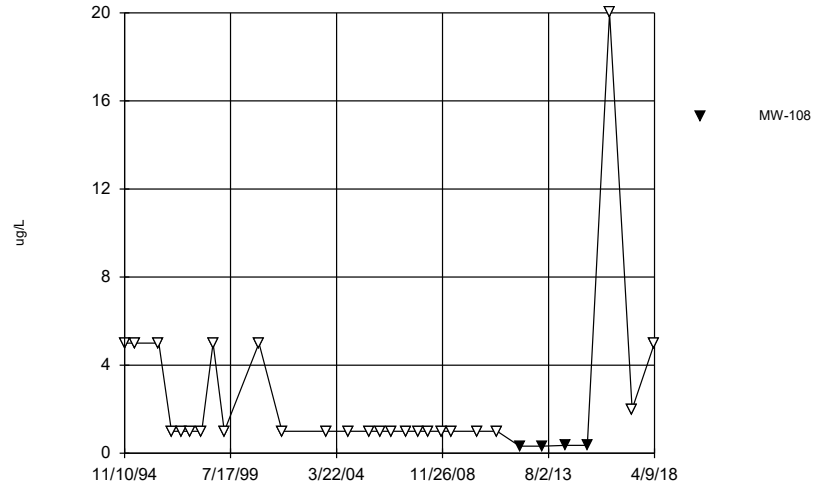
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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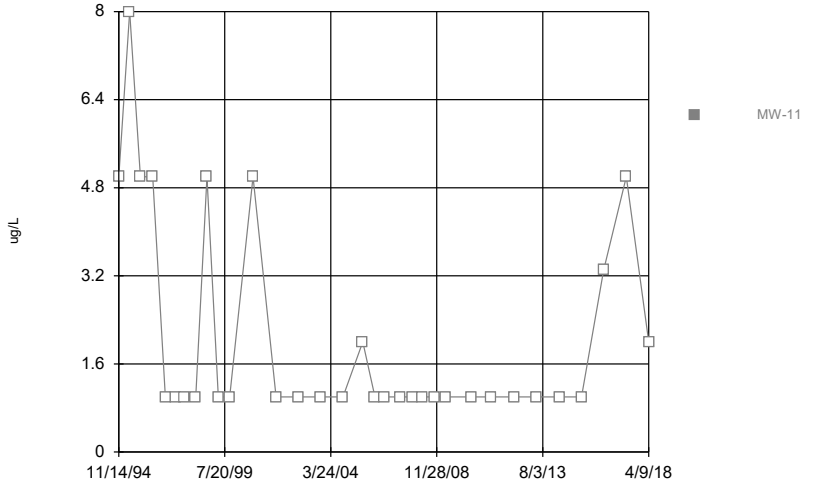

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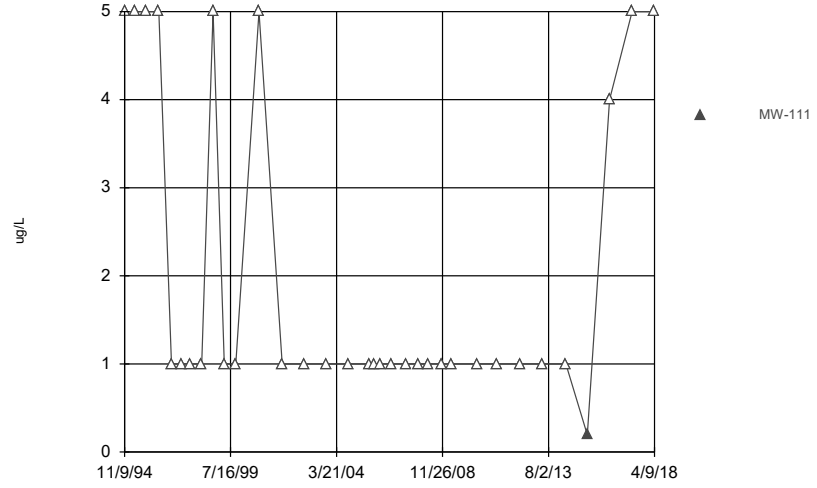

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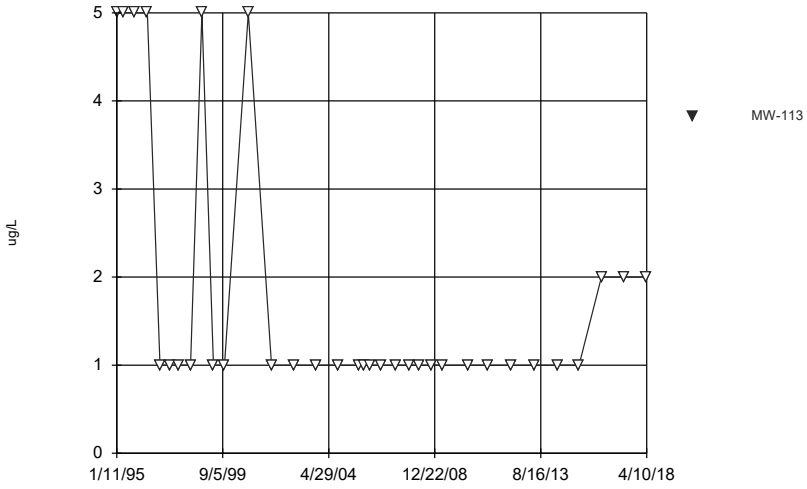

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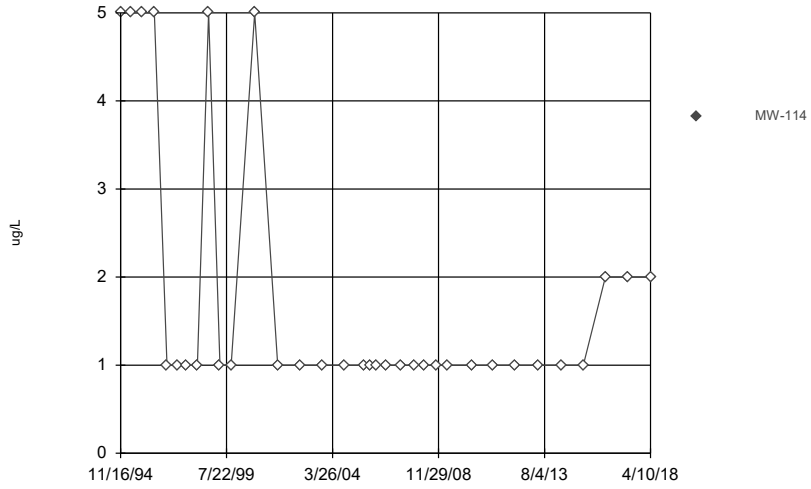

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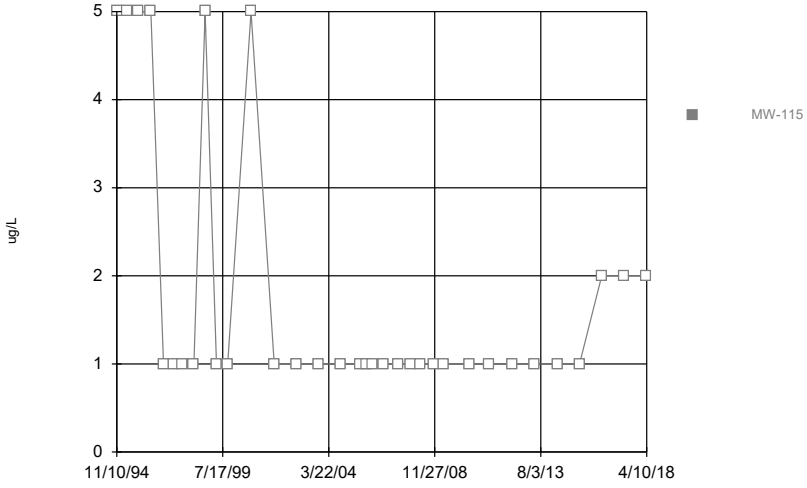

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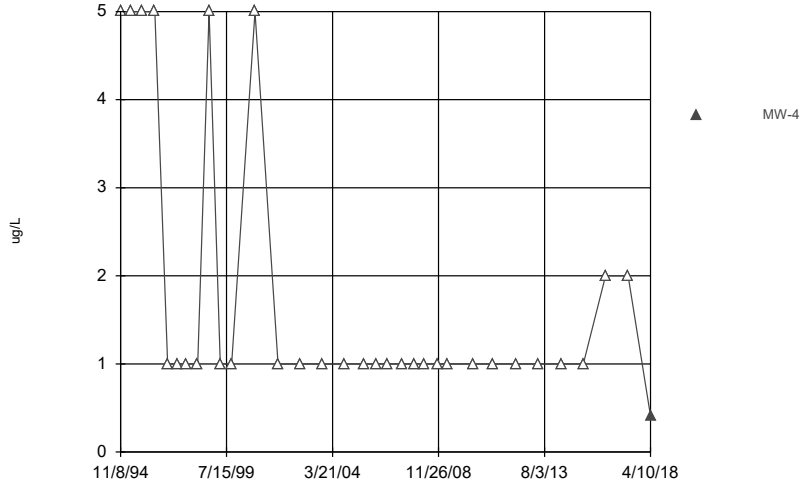

Constituent: Xylenes [total] Analysis Run 9/25/2018 11:44 AM View: WTU Time Series
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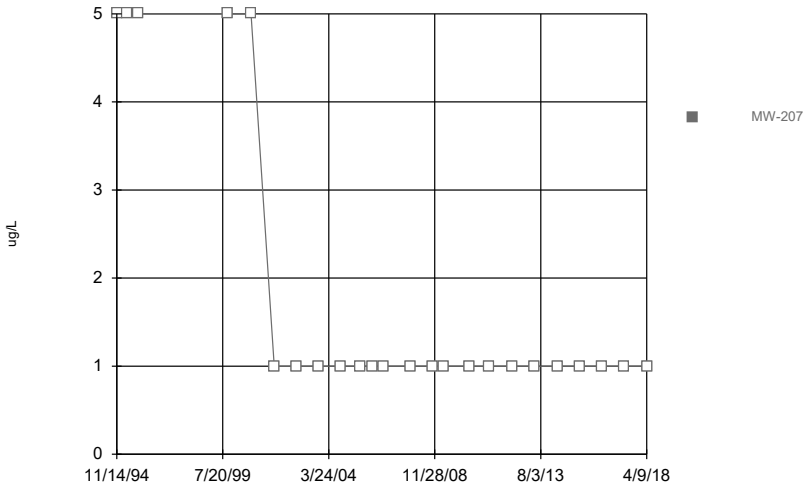
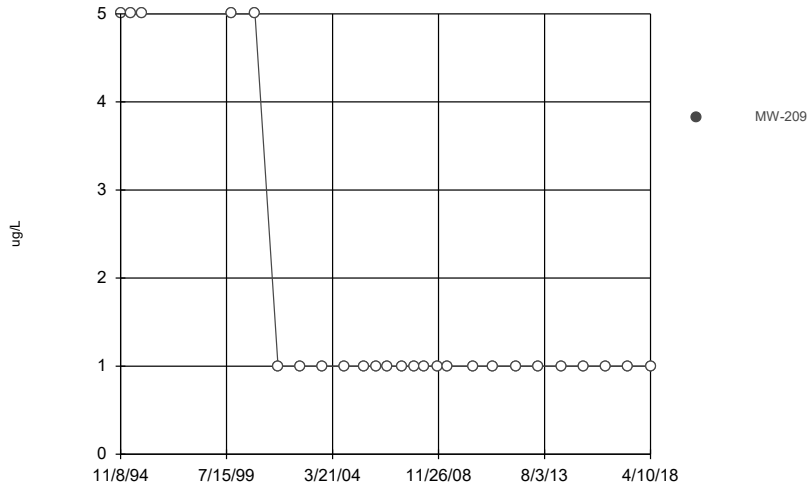


Constituent: 1,1,1-Trichloroethane Analysis Run 9/25/2018 12:02 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 9/25/2018 12:02 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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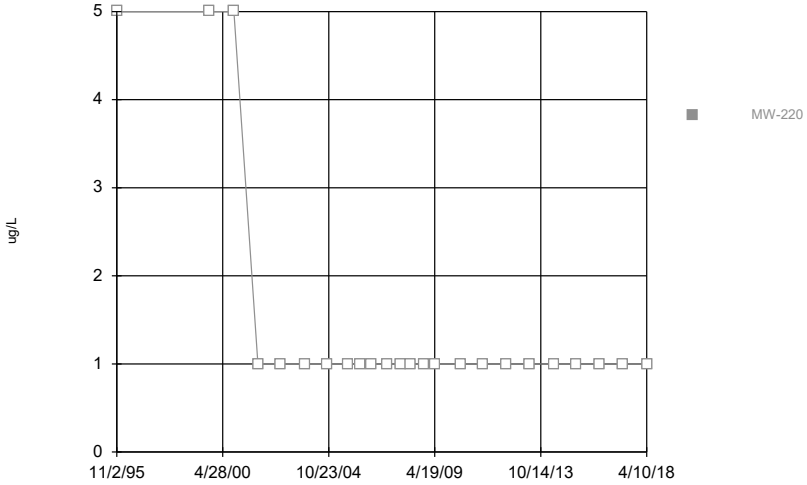
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 9/25/2018 12:02 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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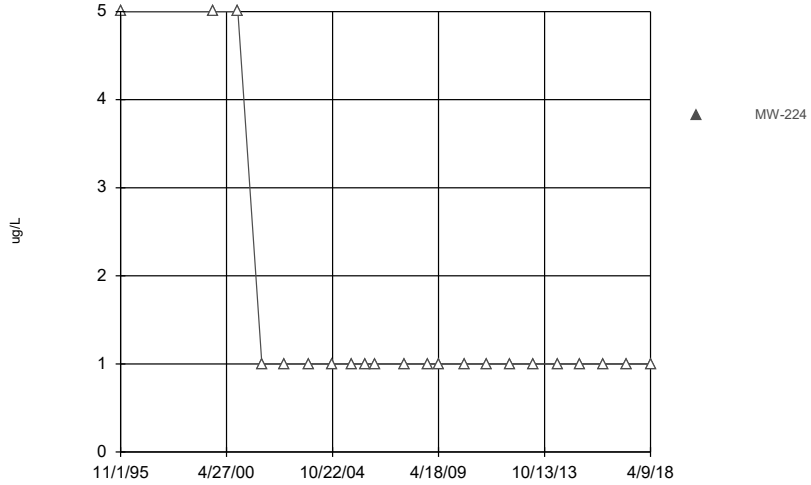
Hollow symbols indicate censored values.

Time Series



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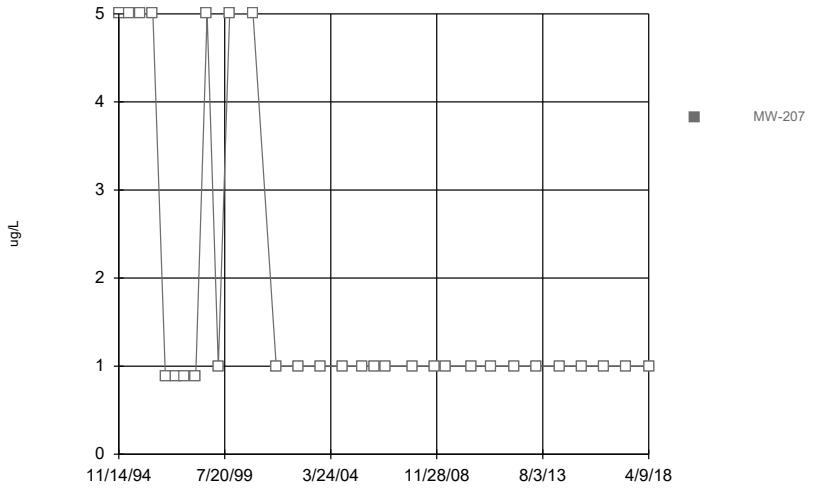
Hollow symbols indicate censored values.

Time Series



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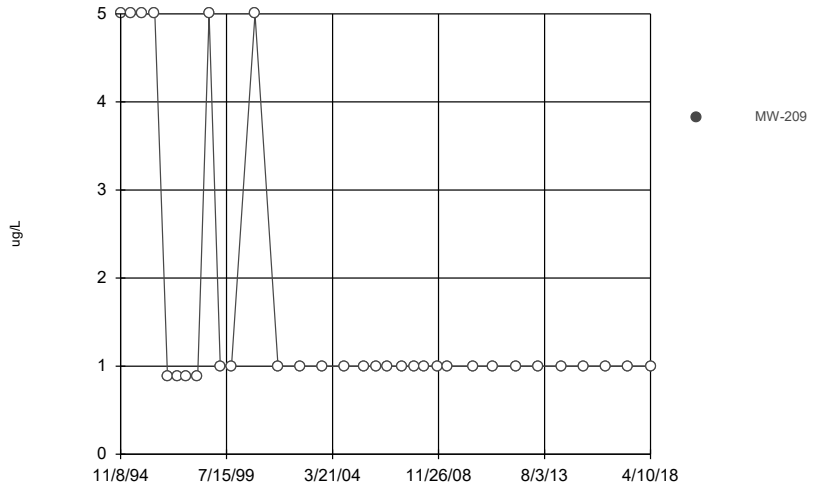
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

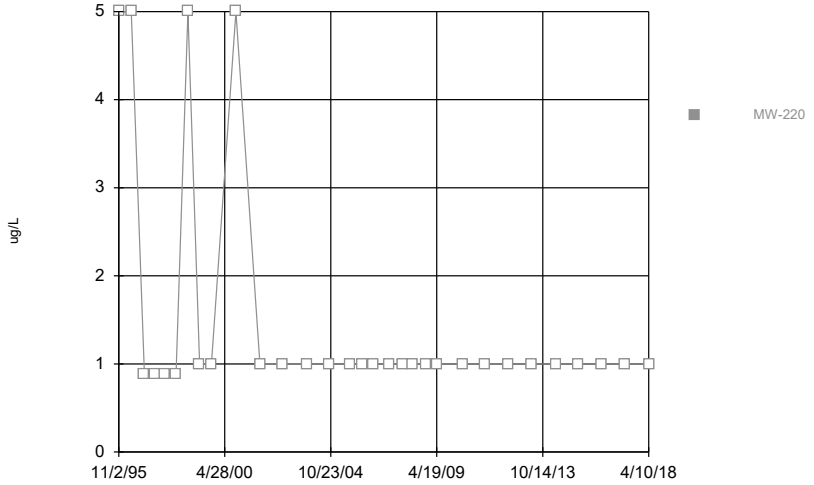
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 9/25/2018 12:02 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

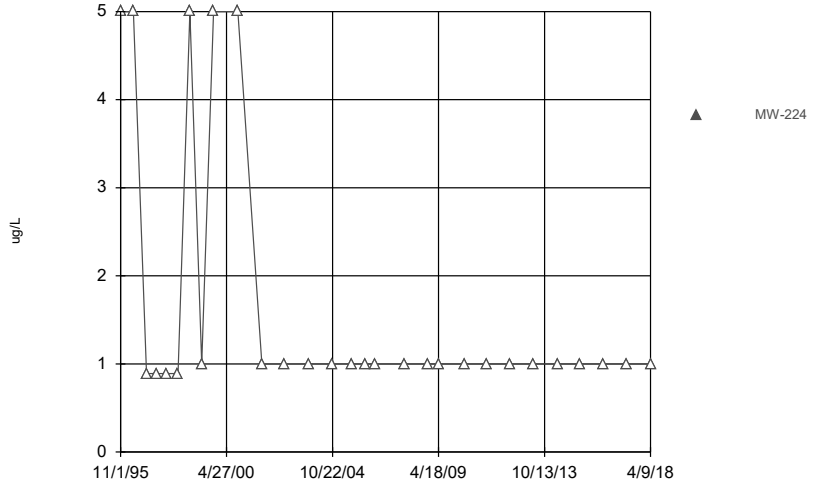
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 9/25/2018 12:02 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



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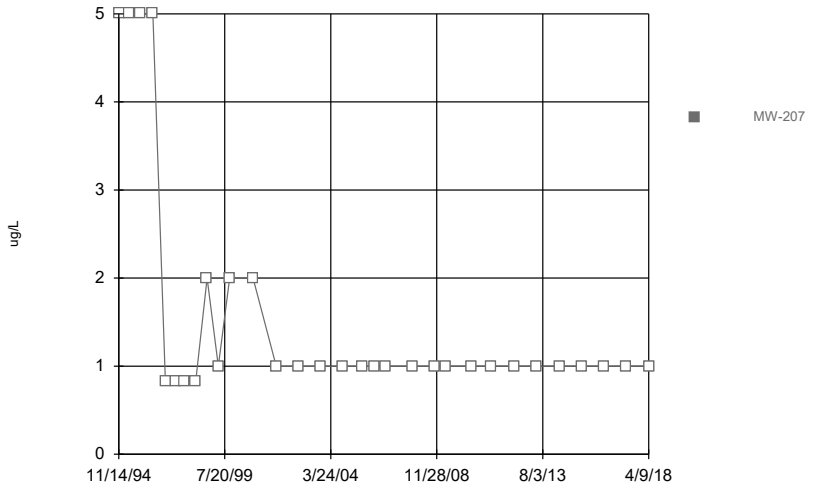
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,2-Dichloroethane Analysis Run 9/25/2018 12:02 PM View: UIU Time Series
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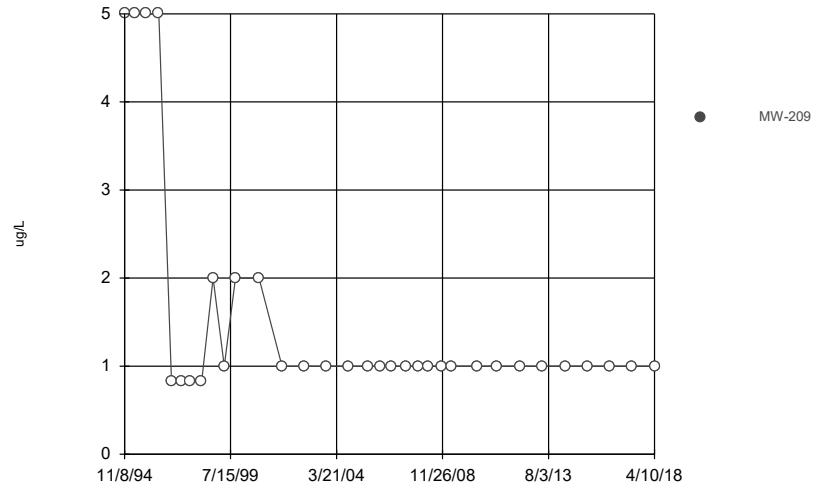
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,2-Dichloroethane Analysis Run 9/25/2018 12:02 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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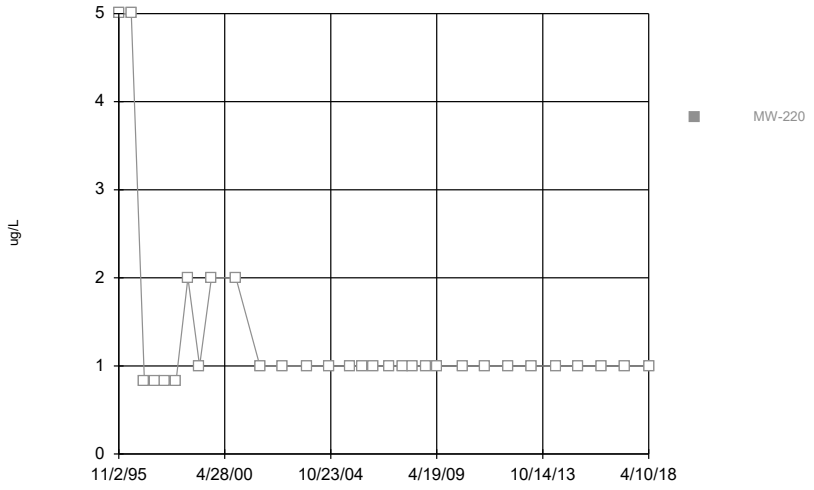

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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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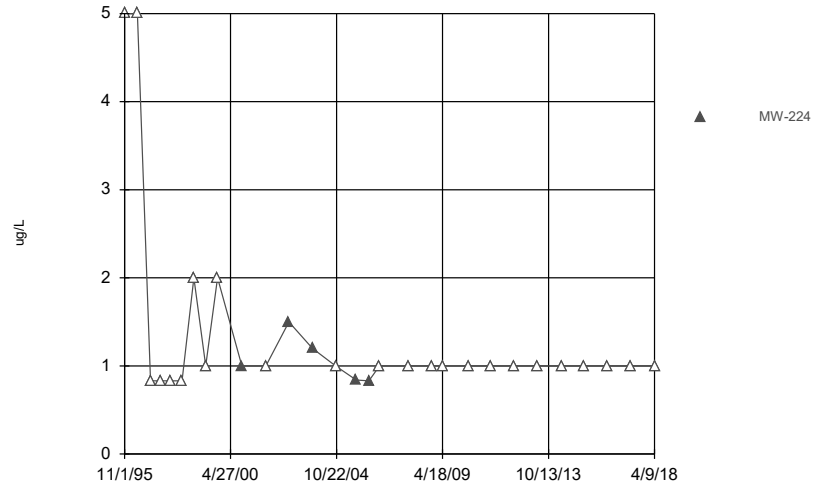

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Summit National Site Client: Summit National Site Data: Summit.National.Database

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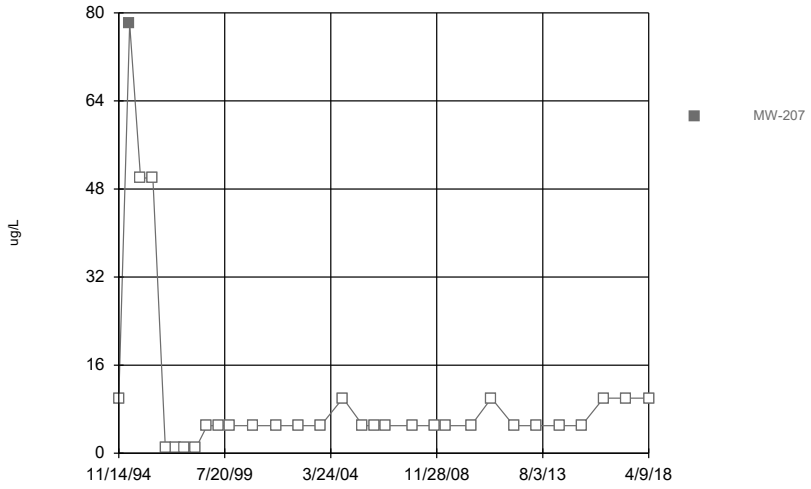
Time Series



Constituent: Acetone Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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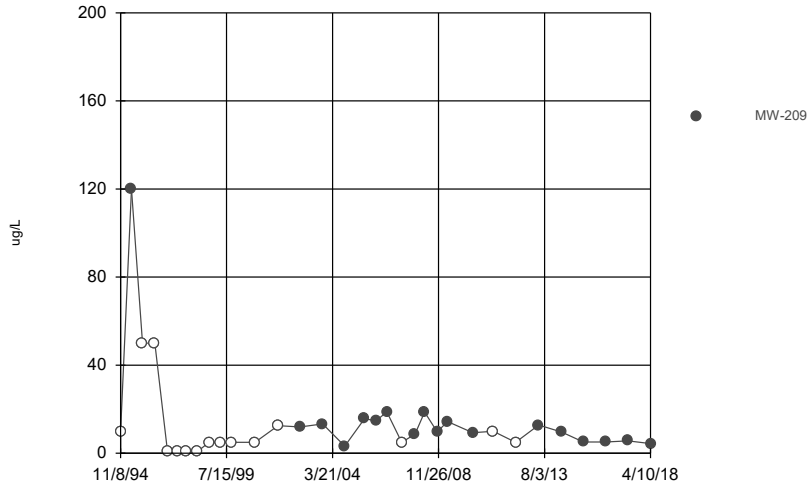
Hollow symbols indicate censored values.

Time Series



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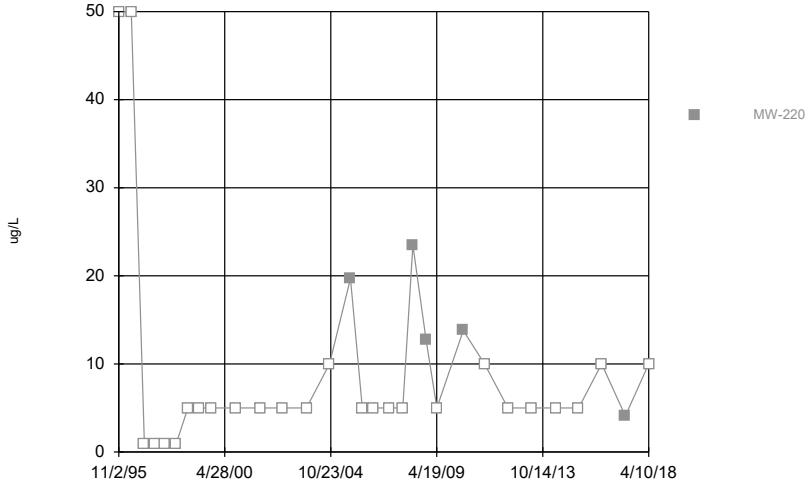
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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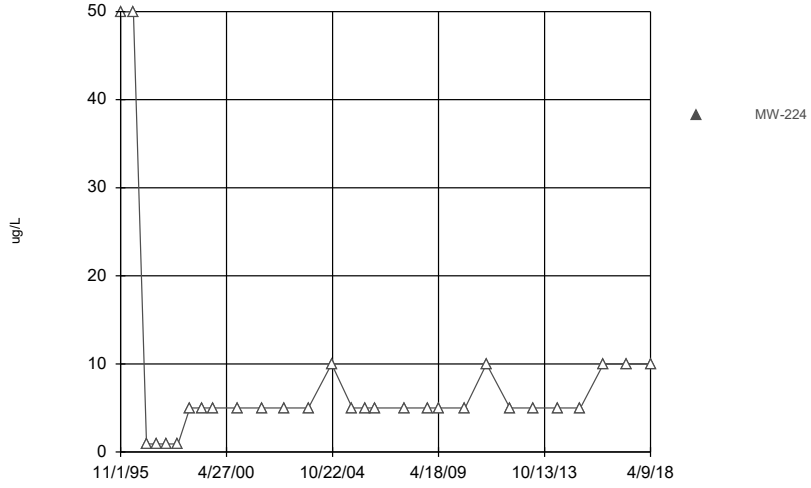
Time Series



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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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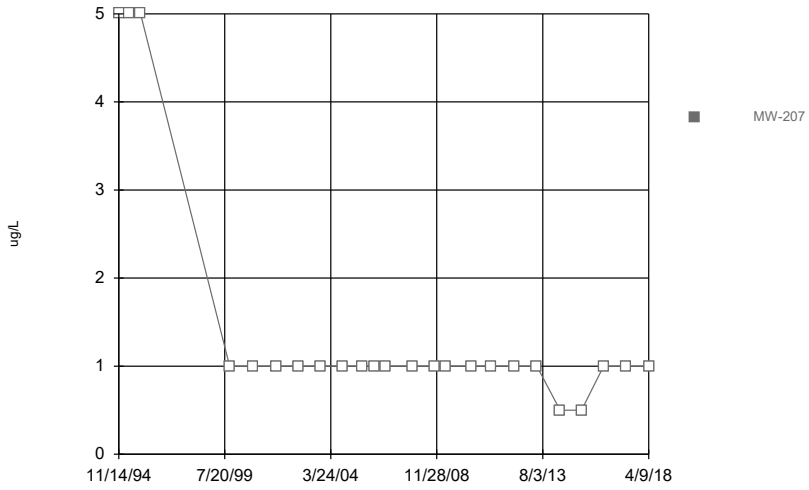
Time Series



Constituent: Benzene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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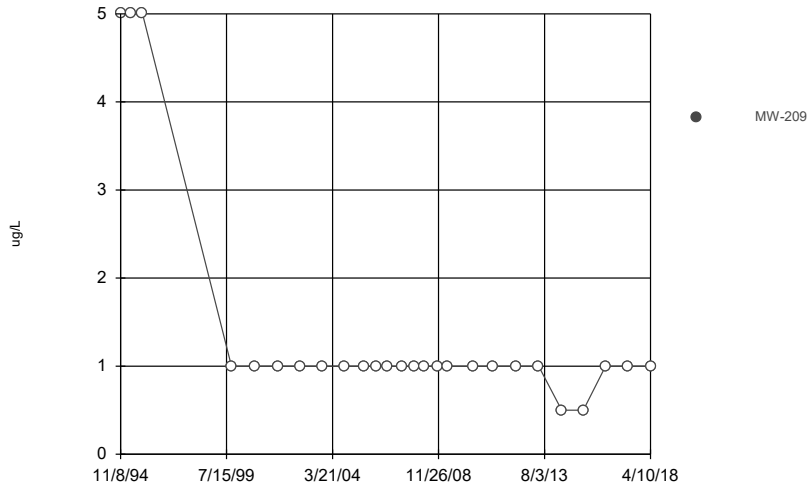

Constituent: Benzene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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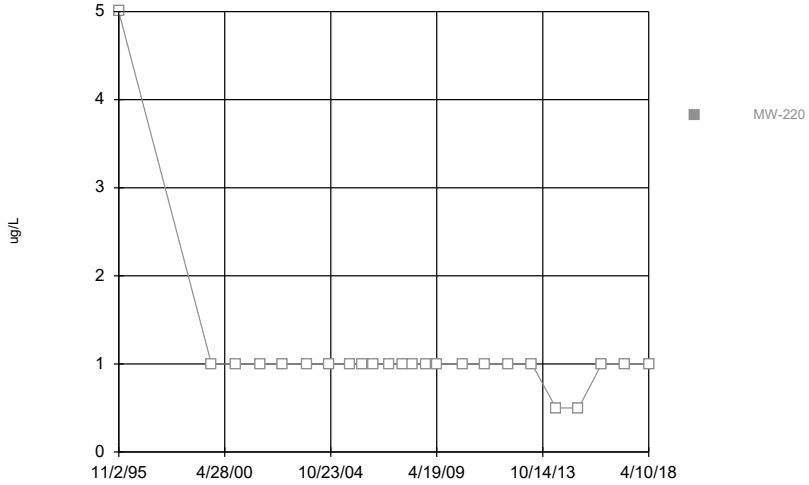

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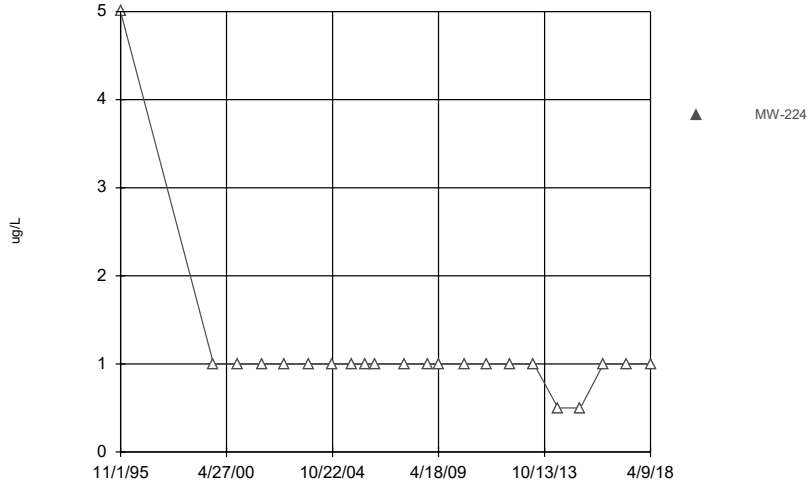

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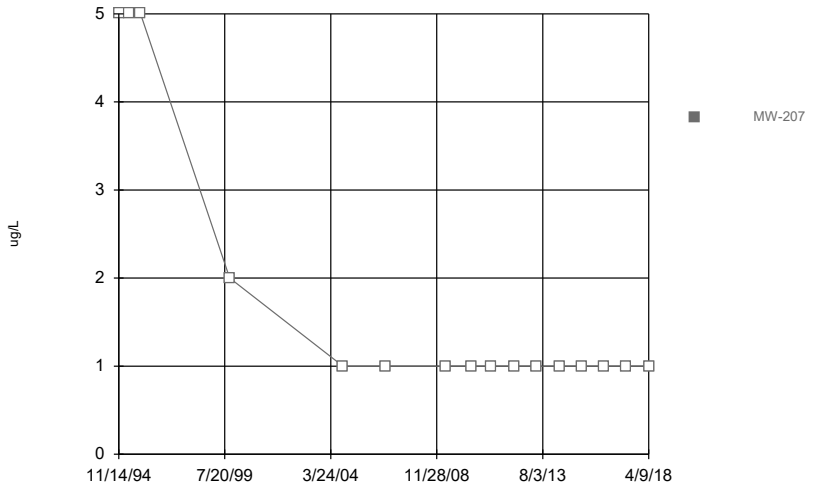

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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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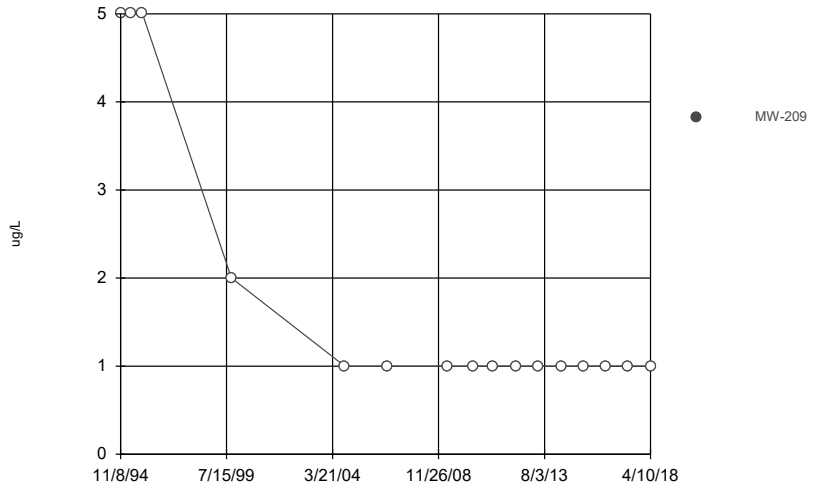

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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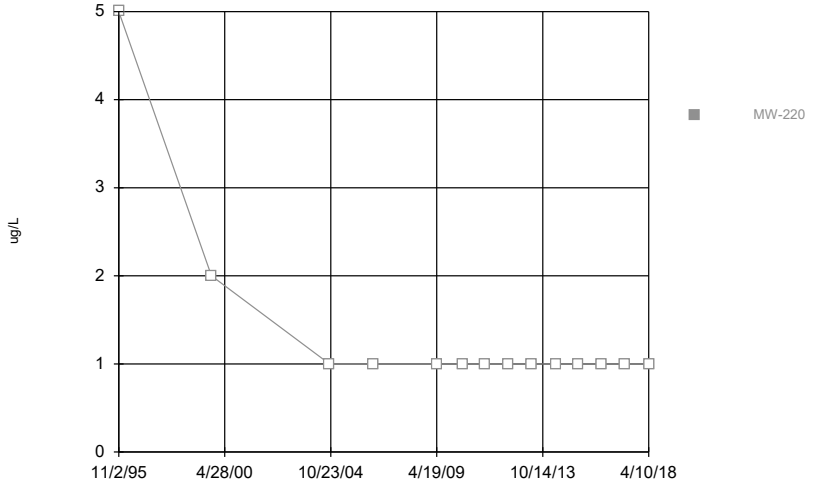

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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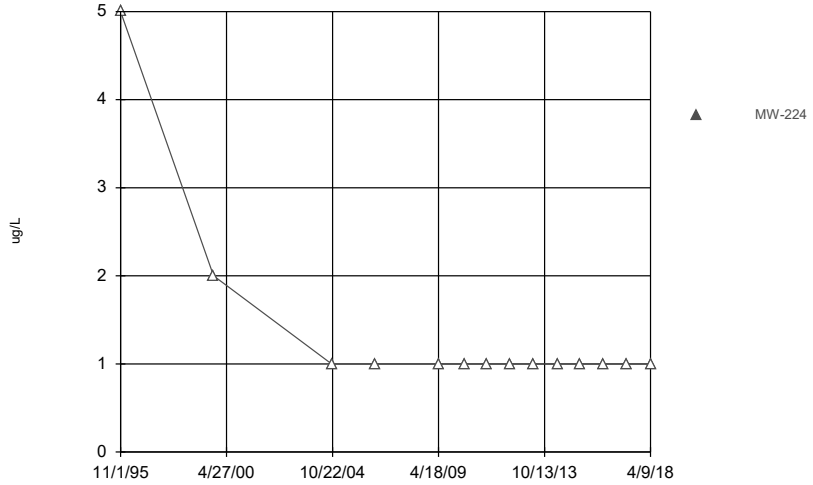

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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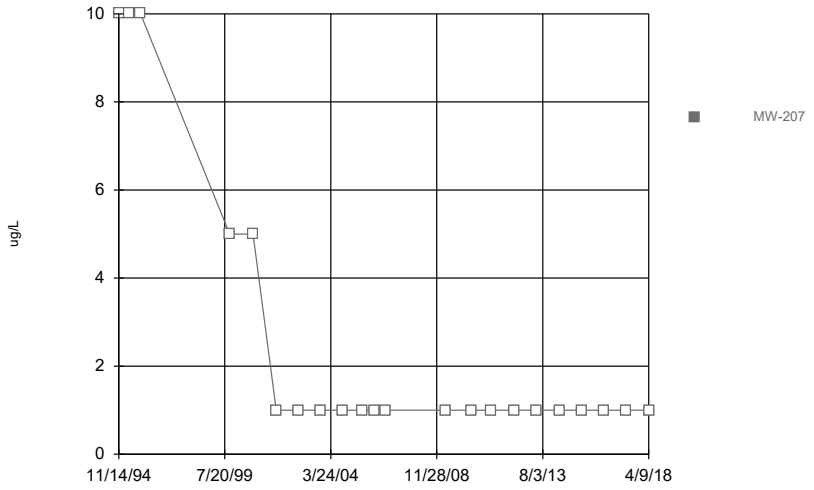

Constituent: Chloroethane Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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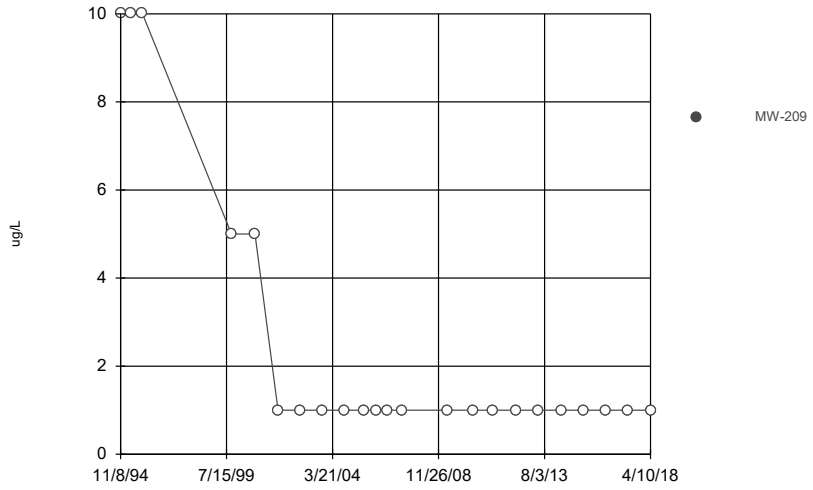
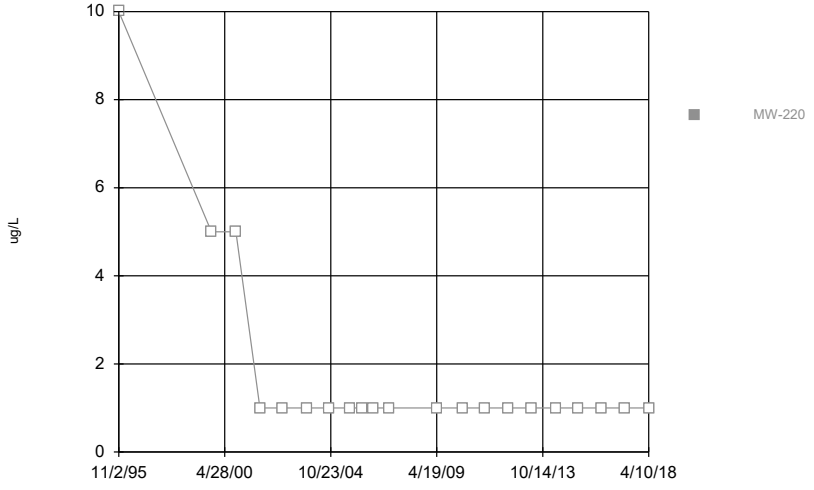
Time Series



Constituent: Chloroethane Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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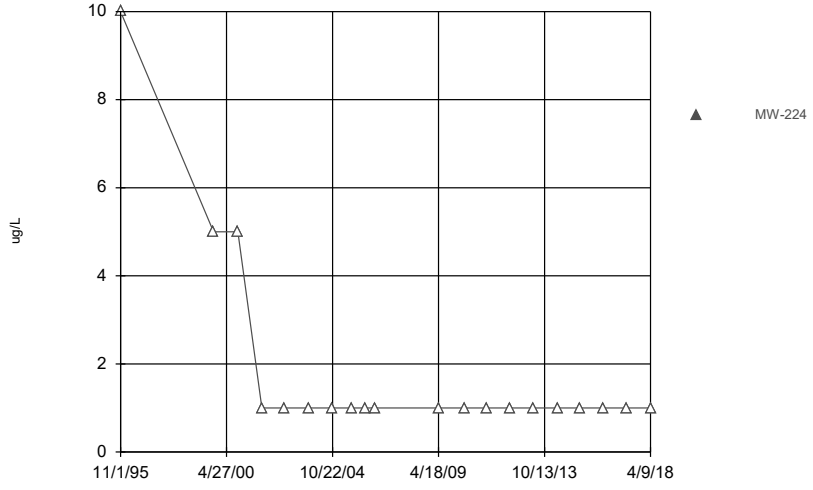

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Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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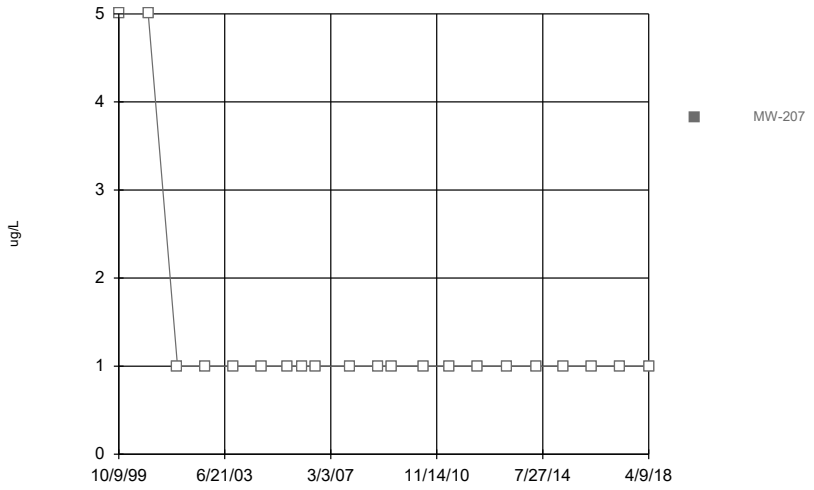

Constituent: cis-1,2-Dichloroethene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
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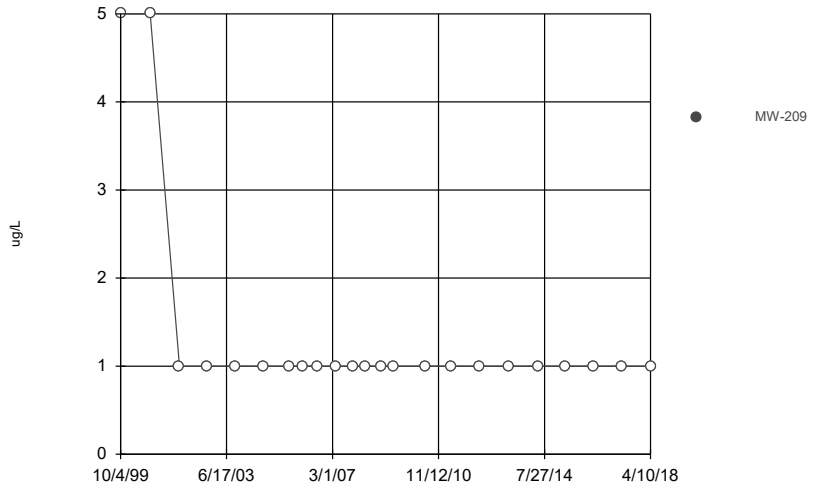
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
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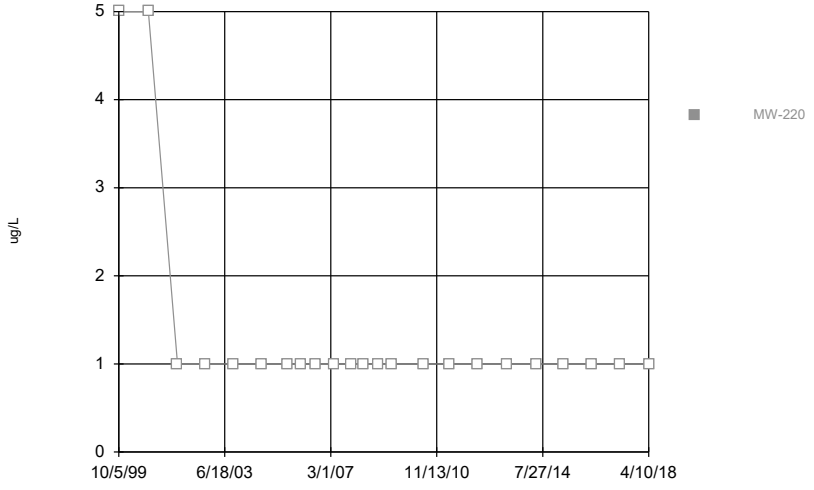

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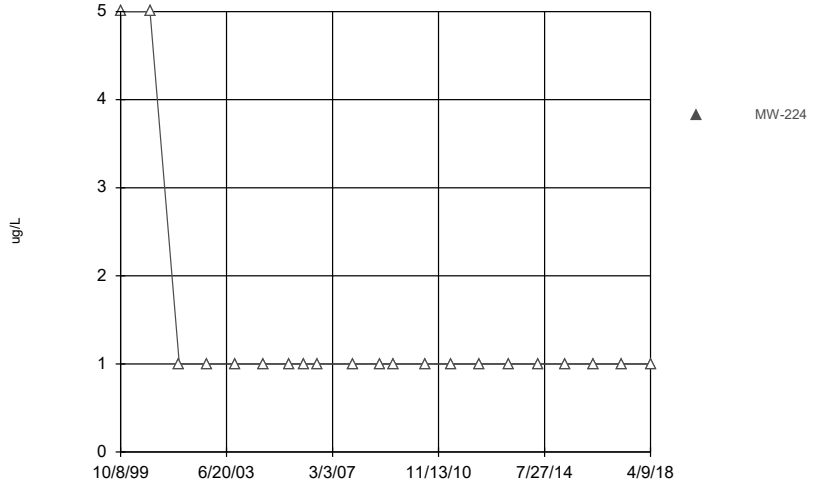

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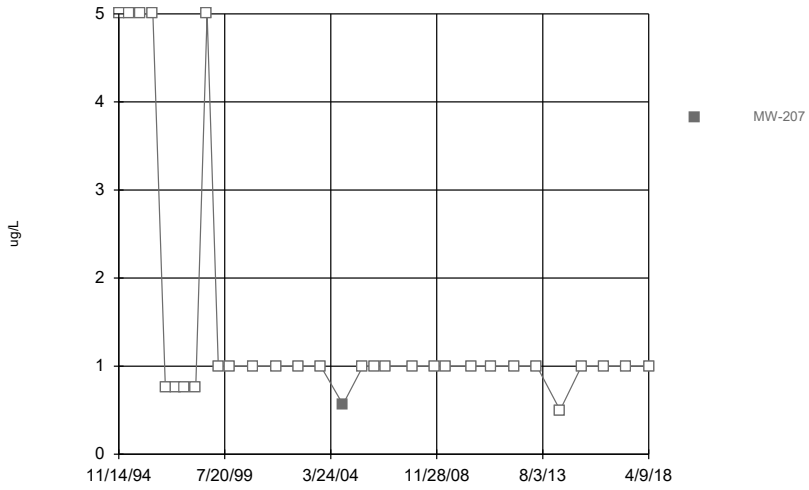
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Ethylbenzene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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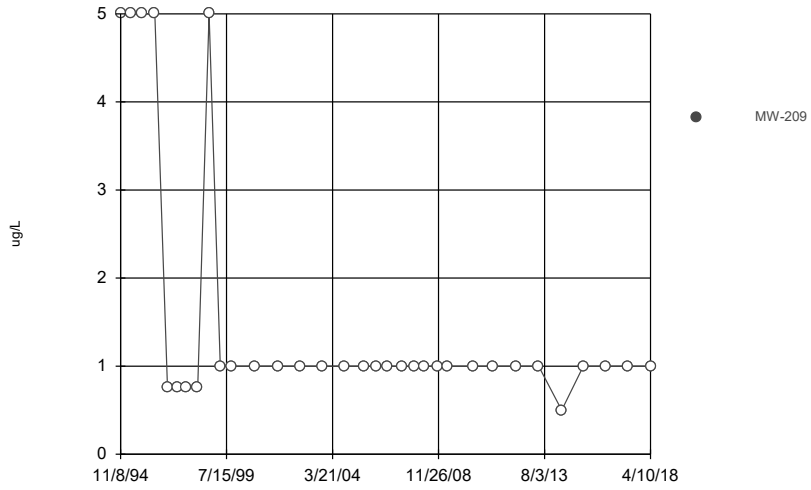
Hollow symbols indicate censored values.

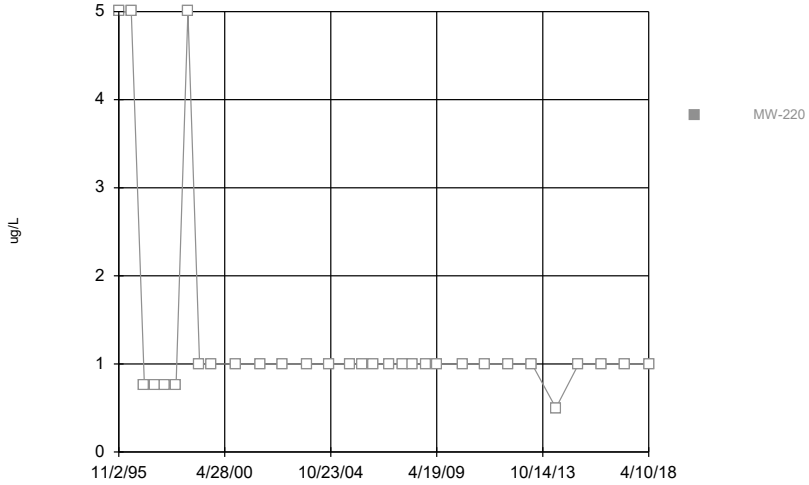
Time Series



Constituent: Ethylbenzene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



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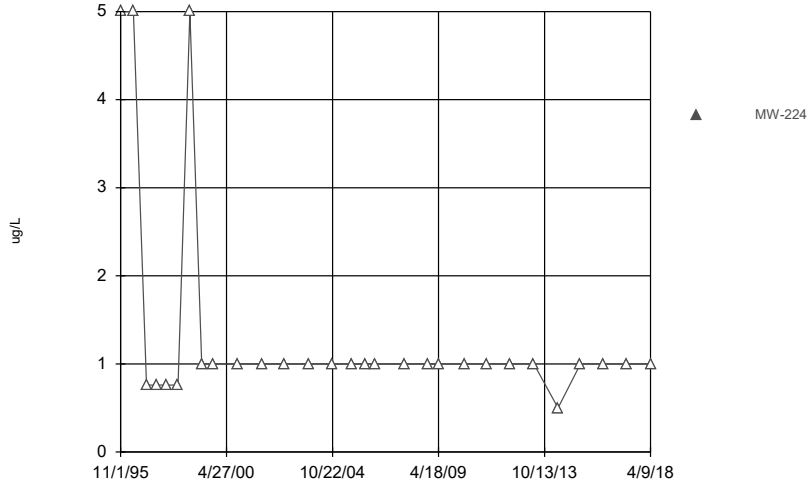
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



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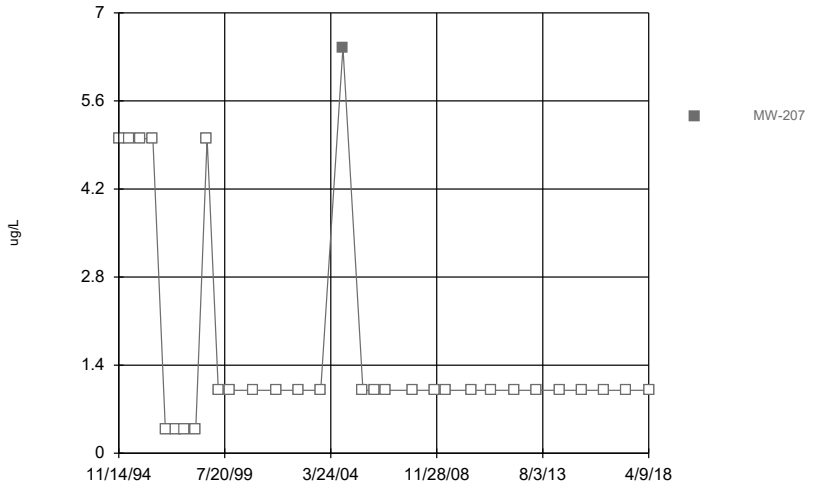
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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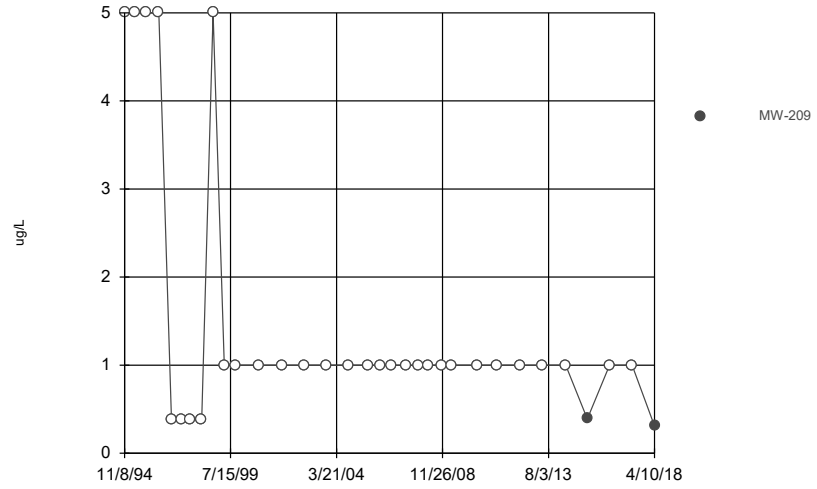
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
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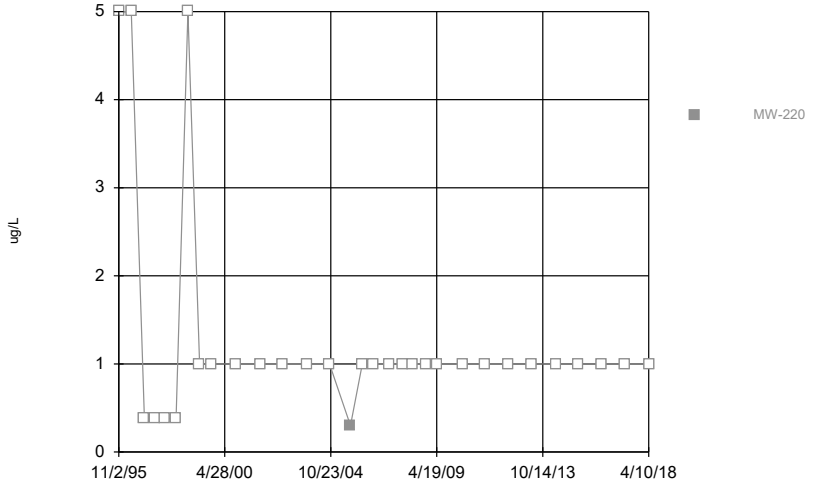
Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
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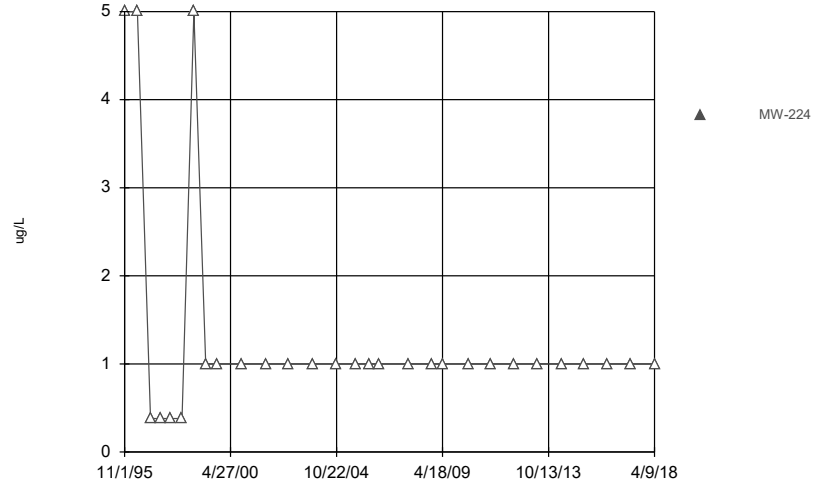

Constituent: Toluene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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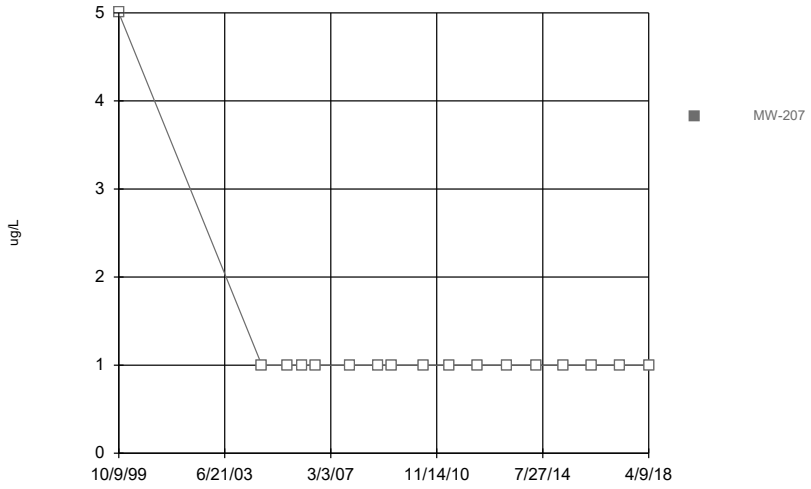
Hollow symbols indicate censored values.

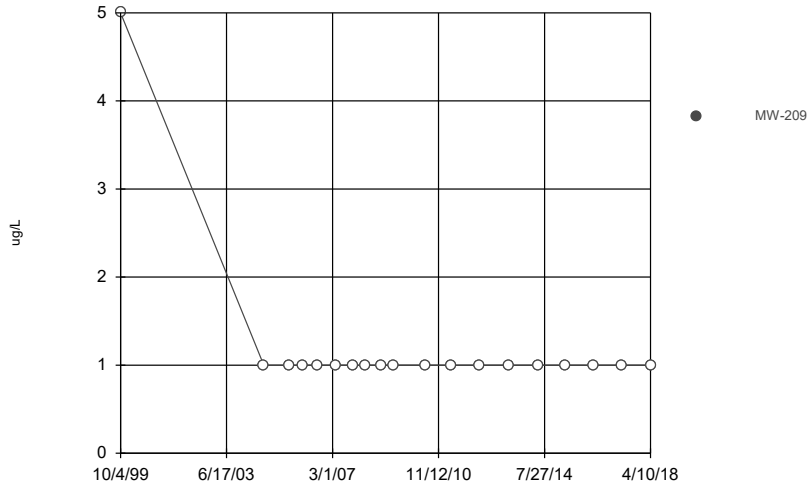
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

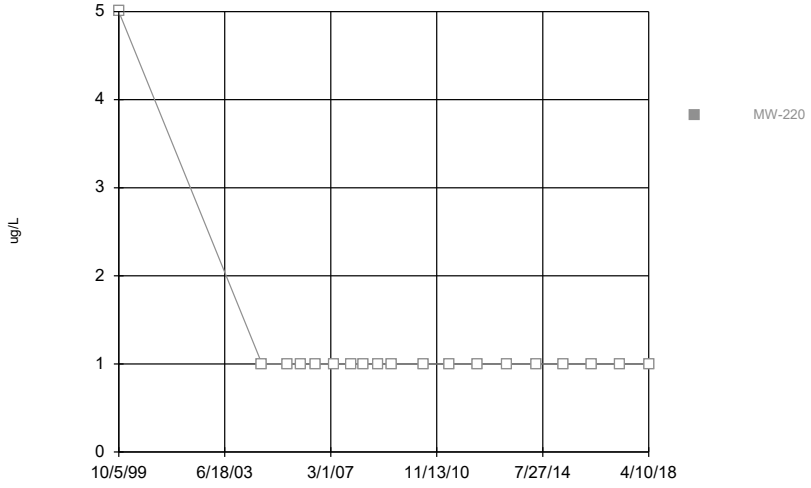
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

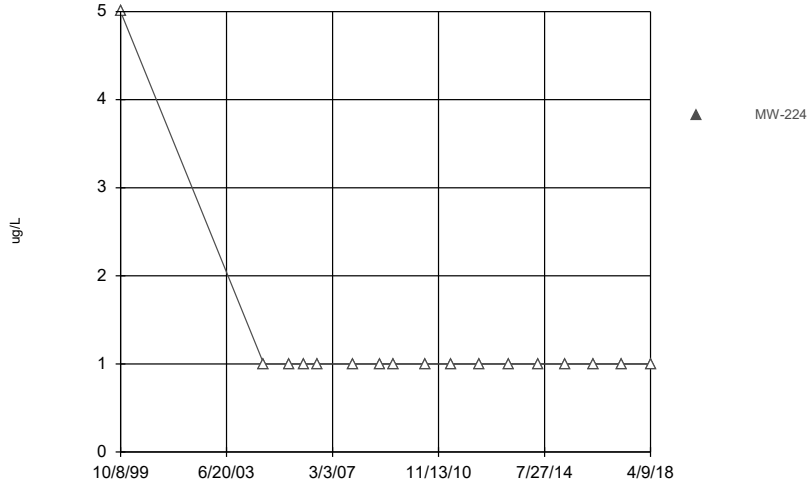
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

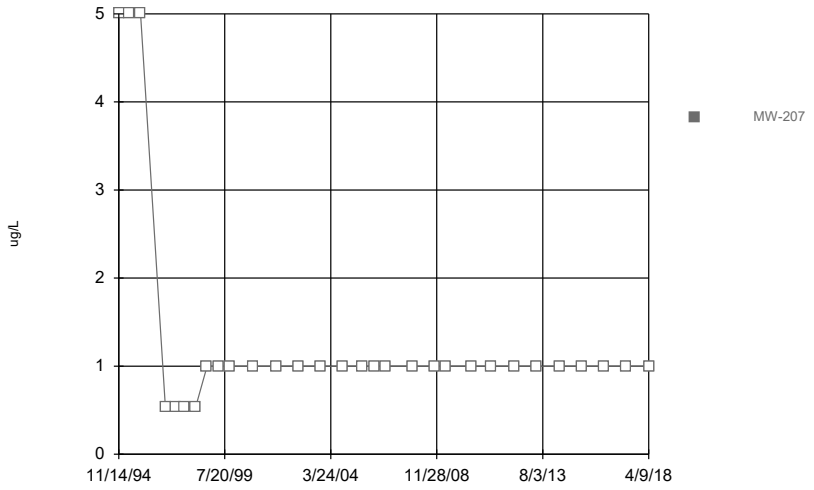
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

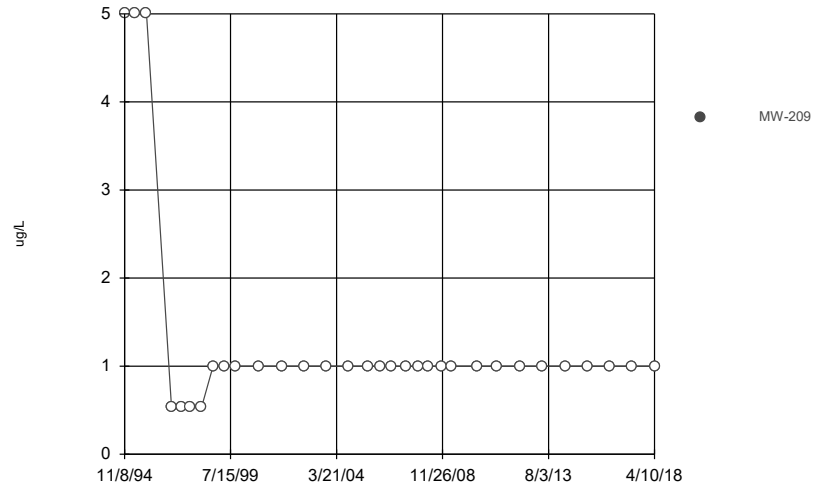
Time Series



Constituent: Trichloroethene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

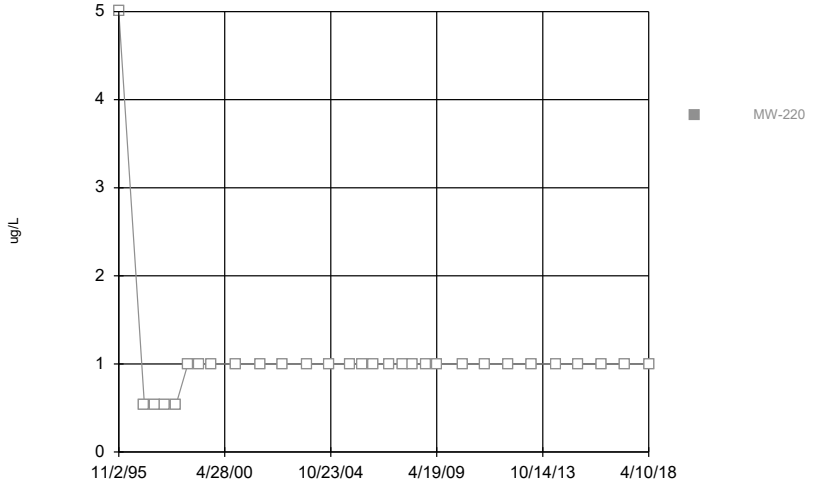
Time Series



Constituent: Trichloroethene Analysis Run 9/25/2018 12:03 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



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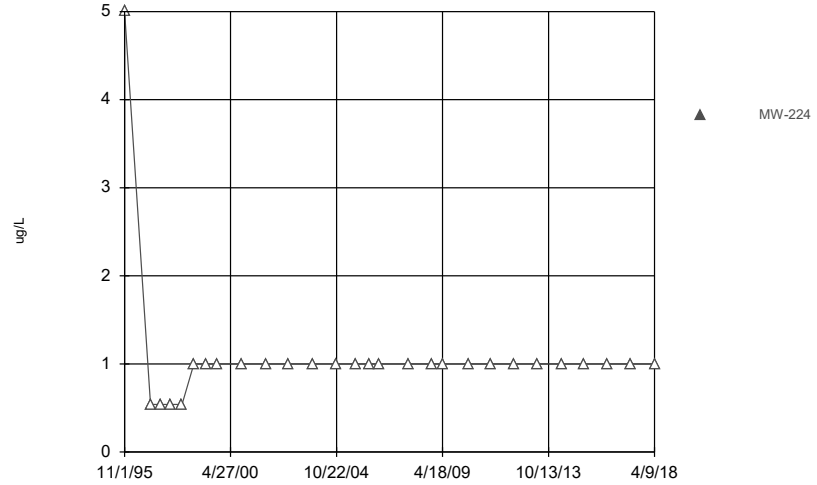
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

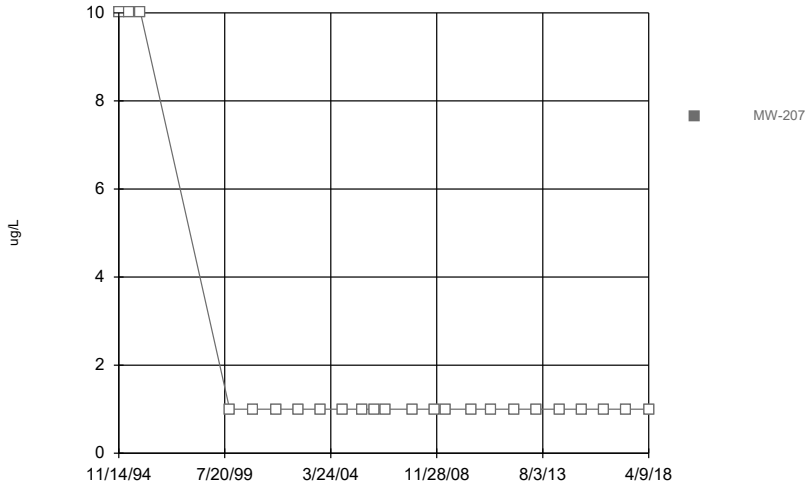
Time Series



Constituent: Trichloroethene Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

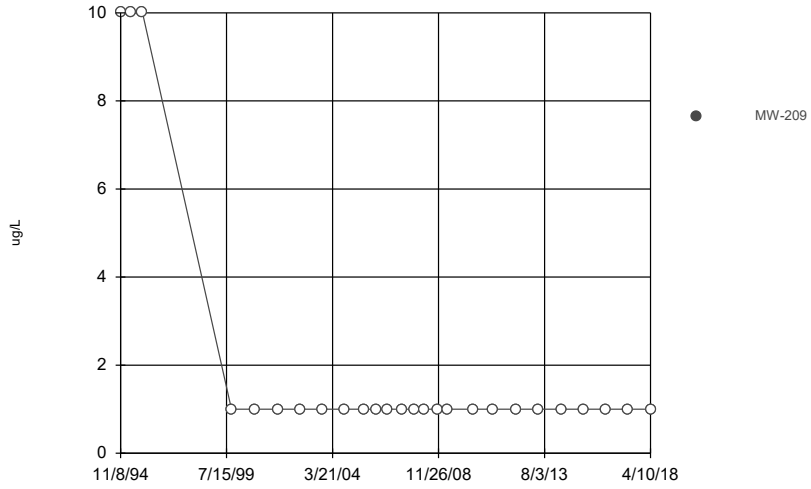
Time Series



Constituent: Vinyl chloride Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

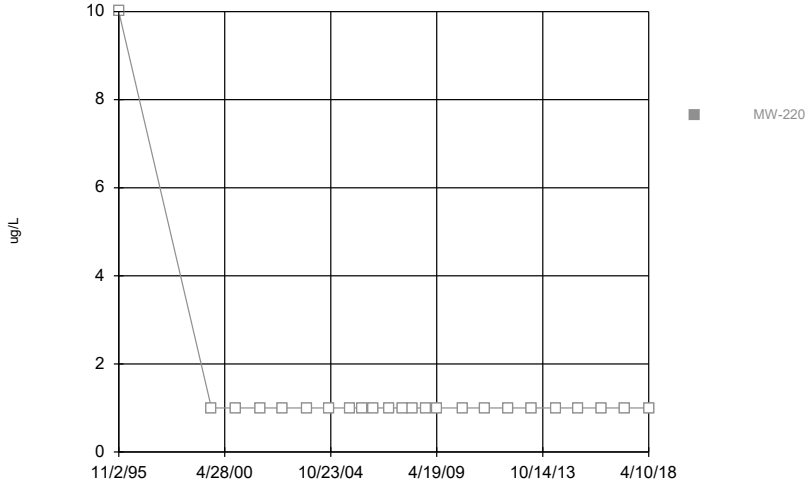
Time Series



Constituent: Vinyl chloride Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

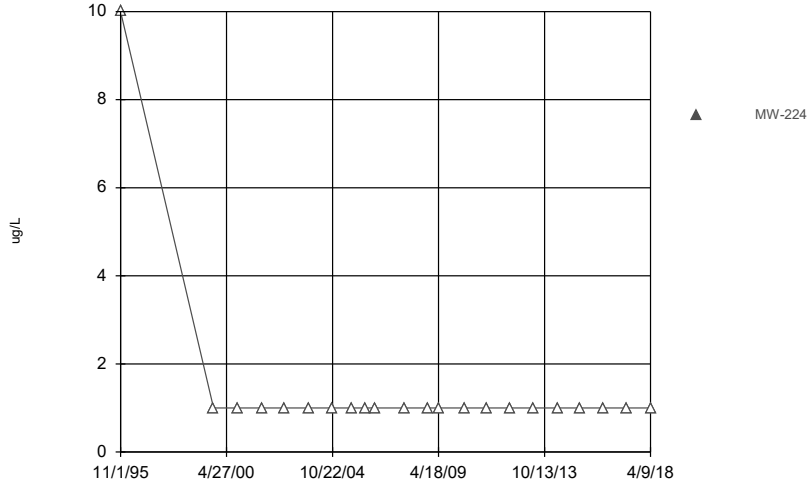
Time Series



Constituent: Vinyl chloride Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

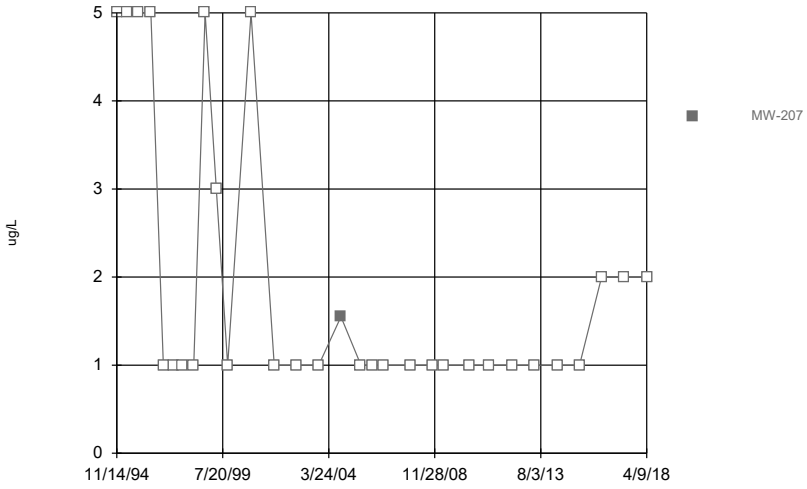
Time Series



Constituent: Vinyl chloride Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

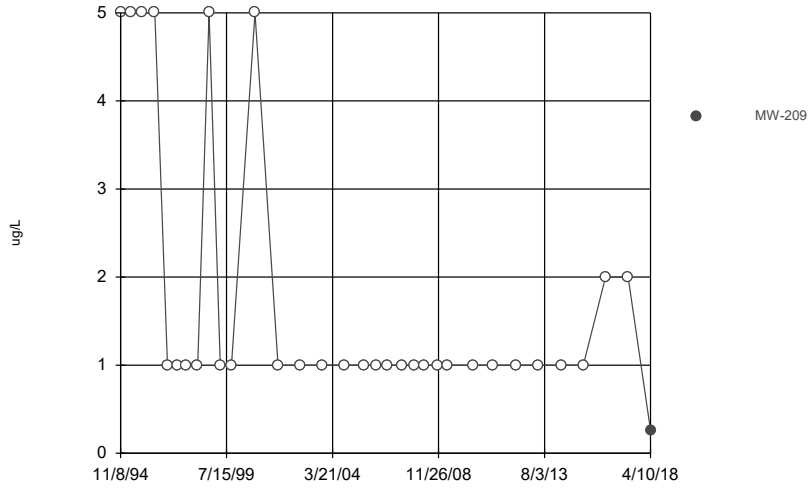
Time Series



Constituent: Xylenes [total] Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

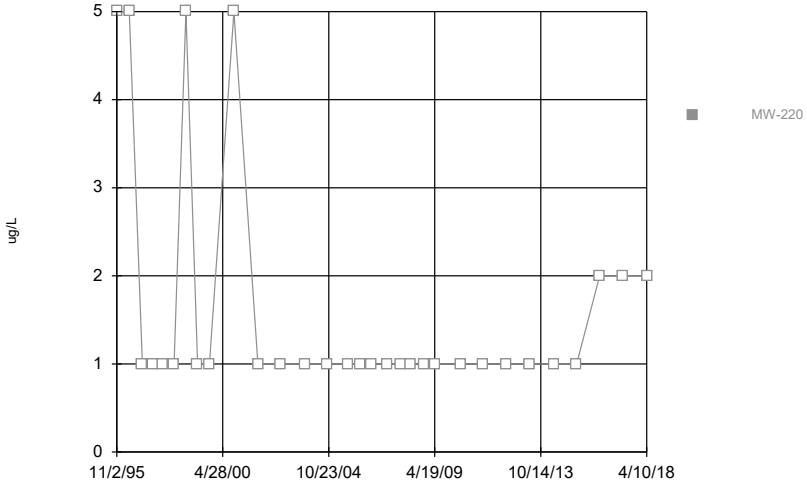
Time Series



Constituent: Xylenes [total] Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

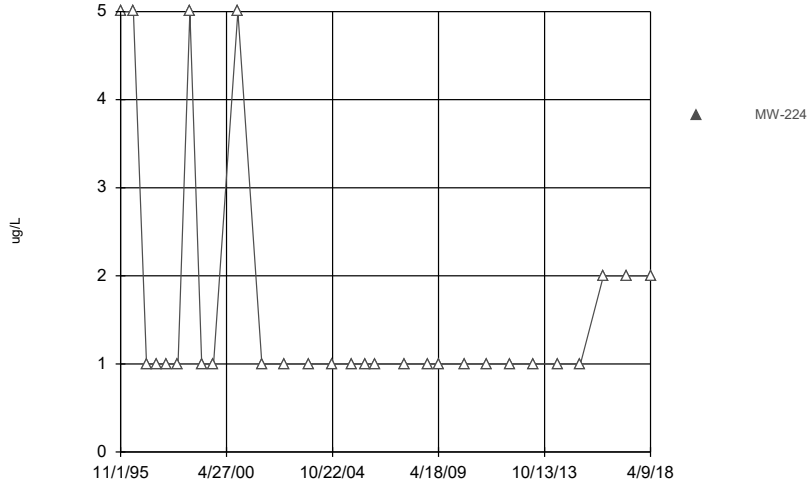
Time Series



Constituent: Xylenes [total] Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes [total] Analysis Run 9/25/2018 12:04 PM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

APPENDIX E.

TIME-SERIES PLOTS OF VOC RESULTS, S&E DITCH SURFACE WATER

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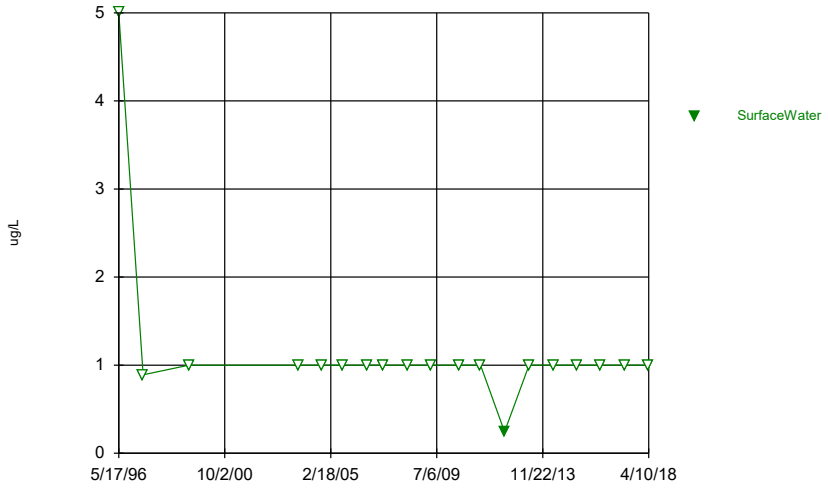
Hollow symbols indicate censored values.

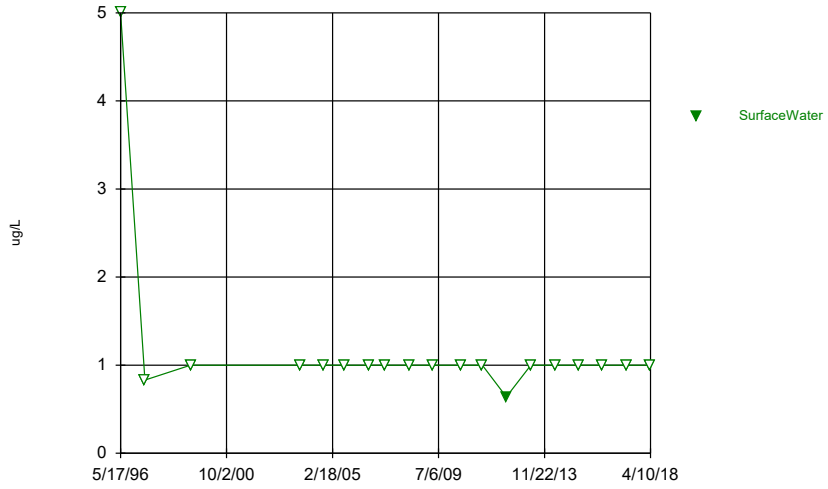
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 9/25/2018 12:17 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

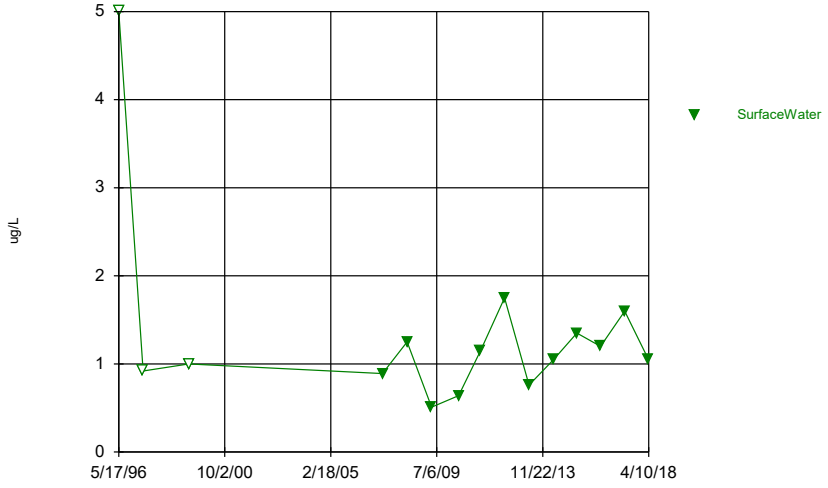
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 9/25/2018 12:17 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

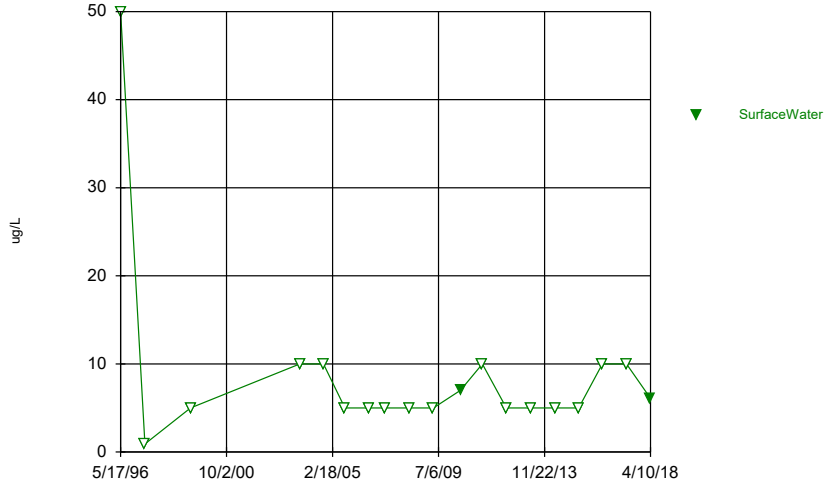
Time Series



Constituent: 1,2-Dichloroethene [total] Analysis Run 9/25/2018 12:17 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

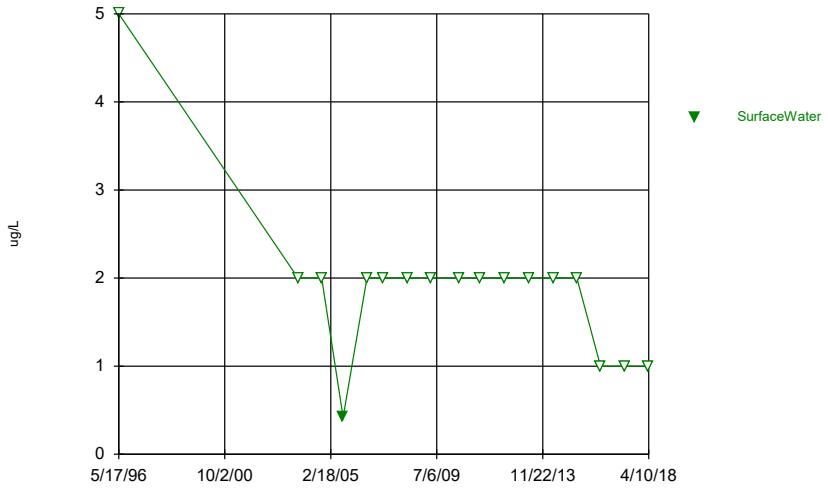
Time Series



Constituent: Acetone Analysis Run 9/25/2018 12:17 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

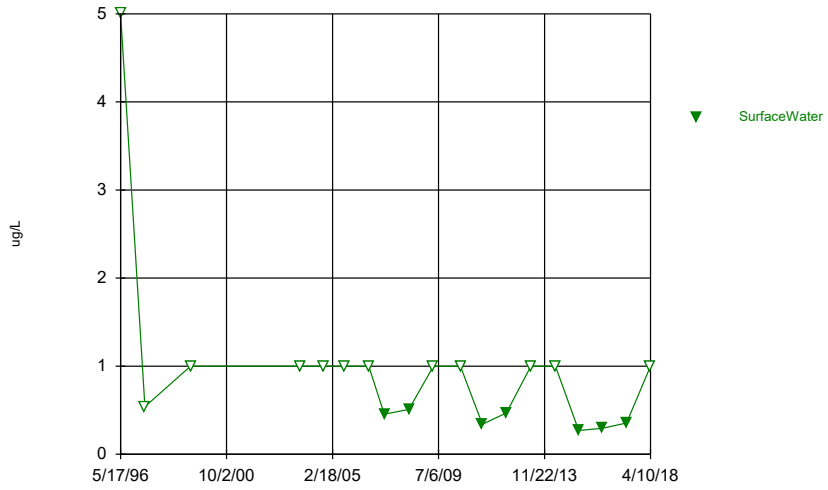
Time Series



Constituent: Carbon disulfide Analysis Run 9/25/2018 12:17 PM View: Surface Water VOCs
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.09 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Trichloroethene Analysis Run 9/25/2018 12:17 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	4/13/2016	4/13/2017	4/9/2018
1,1,1-Trichloroethane	195	134	122	57.9	57.1 / 54.3	33	19.5	27 / ND(20)	ND(130)	11 / 11	9.4
1,1-Dichloroethane	1200	1320	1600	1060	1610 / 1300	1340	1330	1550 / 1560	1200	1100 / 1200	1100
1,2-Dichloroethane	265	291	219	157	210 / 214	137	72.8	77.3 / 81.5	54 J	55 / 50	ND(170)
Acetone	ND(500)	ND(250)	ND(50)	ND(100)	ND(25)/ND(50)	ND(50)	ND(50)	ND(100)/ND(100)	ND(1300)	ND(63)/ND(63)	5.0 J
Benzene	76.2	97.8	110	82.3	89.1 / 89.5	90.9	94.9	103 / 108	84 J	76 / 73	87 J
Chlorobenzene	53.4	63.5	68.1	54.2	51.9 / 51.0	55.1	58.3	62.3 / 60.3	46 J	42 / 40	ND(170)
Chloroethane	ND(50)	ND(50)	ND(10)	5.0 J	ND(5.0)/ND(10)	ND(10)	10.8	20.4 / 18.1 J	ND(130)	56 / 56	92 J
cis-1,2-Dichloroethene	281	369	434	270	208 / 211	104	43.7	45.1 / 54.8	41 J	11 / 11	15
Ethylbenzene	830	1230	1240	989	907 / 944	1030	1150	1220 / 1230	1000	990 / 970	990
Toluene	8710	5370	5190	4040	1510 / 1340	2690	3440	3960 / 3940	3700	1800 / 1800	3700
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)	ND(130)	ND(6.3)/ND(6.3)	2.7
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)	ND(130)	ND(6.3)/ND(6.3)	1.6
Vinyl chloride	ND(50)	121	119	76.3	142 / 143	97.8	46.8	55.4 / 60.1	ND(130)	17 / 19	21
Xylenes [total]	2760	4120	4090	3220	3320 / 2990	3390	3640	4140 / 4200	3200	3200 / 3300	820

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	4/13/2016	4/12/2017	4/9/2018
1,1,1-Trichloroethane	3.0	8.8	6.7	5.3 / 6	6.1	5.0 / 5.3	4.8	4.4	ND(10)/ND(10)	3.0 / 3.5	2.4 J / 2.4 J
1,1-Dichloroethane	50.7	213	244	200 / 234	329	299 / 309	315	359	310 / 280	260 / 270	270 / 270
1,2-Dichloroethane	59.4	68.9	67.7	59 / 62	68.5	67.1 / 67.6	75.1	70	61 / 60	59 / 51	49 / 49
Acetone	5.4 J	3.8 J	4.1 J	ND(10)/ND(10)	ND(5.0)	ND(5.0)/ND(5.0)	ND(5.0)	ND(5.0)	ND(100)/ND(100)	ND(10)/ND(10)	ND(25)/ND(10)
Benzene	10.7	77.2	86.9	91.7 / 98.6	120	126 / 126	136	137	130 / 120	110 / 110	110 / 110
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	ND(10)/ND(10)	ND(1.0)/ND(1.0)	ND(2.5)/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)	ND(1.0)	ND(10)/ND(10)	ND(1.0)/ND(1.0)	ND(2.5)/ND(1.0)
cis-1,2-Dichloroethene	52.8	128	155	144 / 156	199	201 / 208	210	237	250 / 220	180 / 190	200 / 200
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	ND(10)/ND(10)	0.30 J / 0.28 J	ND(2.5)/ND(1.0)
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	ND(10)/ND(10)	0.74 J / 0.72 J	0.66 J / 0.59 J
trans-1,2-Dichloroethene	2.0	4.2	5.0	3.9 / 4.5	5.8	5.9 / 6.0	5.4	6.5	6.0 J / 5.6 J	5.9 / 6.0	4.7 / 4.8
Trichloroethene	10.8	30.1	30.8	25.7 / 28.8	31	27.8 / 27.8	27.8	32.1	28 / 27	29 / 31	22 / 20
Vinyl chloride	5.5	53.2	76.8	61.2 / 69.5	119	115 / 117	130	114	110 / 95	82 / 86	85 / 100
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	ND(20)/ND(20)	ND(2.0)/ND(2.0)	ND(5.0)/ND(2.0)

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	4/13/2016	4/13/2017	4/10/2018
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)	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)	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)	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)	ND(10)	ND(10)	ND(10)
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)	ND(1.0)	ND(1.0)	ND(1.0)
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)	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)	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)	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)	ND(1.0)	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)	ND(1.0)	0.50 J
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)	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)	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)	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(2.0)	ND(2.0)	0.41 J

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	4/13/2016	4/13/2017	4/10/2018
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)	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)	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)	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)	ND(10)	ND(10)	ND(10)
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)	ND(1.0)	ND(1.0)	ND(1.0)
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)	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)	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)	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)	ND(1.0)	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)	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)	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)	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)	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(2.0)	ND(2.0)	ND(2.0)

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	4/12/2016	4/12/2017	4/9/2018
1,1,1-Trichloroethane	5.6	2.3	2	1.1	1.6	ND(1.0)	1.4	ND(1.0)/ND(1.0)	ND(2.0)	0.67 J	1.1 J
1,1-Dichloroethane	47.1	31.4	33.7	21.1	32.2	32.9	29.2	34.5 / 34.6	17	19	28
1,2-Dichloroethane	144	69.1	75.1	44.5	73.7	96.4	112	131 / 133	57	73	120
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)	ND(20)	ND(25)	ND(25)
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)	ND(2.0)	ND(2.5)	ND(2.5)
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)	ND(2.0)	ND(2.5)	ND(2.5)
Chloroethane	1.6	1.4	1.4	0.88 J	1.2	1.7	1.7	1.6 / 1.5	0.7 J	ND(2.5)	ND(2.5)
cis-1,2-Dichloroethene	8.2	6.3	7.5	4.9	6.3	7.1	6.1	7.2 / 7.3	4	4.4	6.4
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)	ND(2.0)	ND(2.5)	ND(2.5)
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)	ND(2.0)	ND(2.5)	ND(2.5)
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)	ND(2.0)	ND(2.5)	ND(2.5)
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)	ND(2.0)	ND(2.5)	ND(2.5)
Vinyl chloride	8.6	5.2	7	3.3	6.2	6.5	6	8.4 / 8.9	3.2	4.9	7.6
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	ND(4.0)	ND(5.0)	ND(5.0)

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	4/13/2016	4/13/2017	4/10/2018
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)	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)	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)	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)	1.9 J	2.7 J	ND (10)
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)	ND(1.0)	ND(1.0)	ND(1.0)
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)	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)	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)	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)	ND(1.0)	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)	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)	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)	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)	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(2.0)	ND(2.0)	ND(2.0)

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	4/13/2016	4/13/2017	4/10/2018
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)	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	0.74 J	0.64 J	0.43 J / 0.40 J
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)	ND(1.0)	ND(1.0)	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)	ND(10)	ND(10)	ND(10)/ND(10)
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)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
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)	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)	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	1.7	1.6	0.72 J / 0.74 J
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)	ND(1.0)	ND(1.0)	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)	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)	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)	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)	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)	ND(2.0)	ND(2.0)	ND(2.0)/ND(2.0)

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	4/12/2016	4/12/2017	4/9/2018
1,1,1-Trichloroethane	54.3	45.5	37.7	28.1	24.4	28	17.6	20.1	14	14	15
1,1-Dichloroethane	73.7	76.2	79.3	63.4	63.3	77.7	54.4	57.7	48	54	70
1,2-Dichloroethane	1.8	1.6	1.3	1.2	1.3	1.5	1.1	1.1	0.98 J	1.2 J	1.0
Acetone	ND(10)	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(17)	ND(25)	ND(10)
Benzene	0.55 J	0.7 J	0.71 J	0.61 J	0.55J	0.7J	ND(0.5)	0.33 J	ND(1.7)	ND(2.5)	0.48 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)	ND(1.7)	ND(2.5)	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(1.7)	ND(2.5)	ND(1.0)
cis-1,2-Dichloroethene	62.3	55.5	59.2	50.7	44.2	57.5	33.3	32.1	28	27	49
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(1.7)	ND(2.5)	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(1.7)	ND(2.5)	ND(1.0)
trans-1,2-Dichloroethene	2	2.4	2.4	1.9	1.6	2.1	0.88 J	1.1	0.74 J	0.91 J	1.3
Trichloroethene	186	122	101	95.9	75.6	88.9	36.9	45.9	44	42	88
Vinyl chloride	2.2	5	5.2	6.1	4.1	6.2	2.8	3.6	2.1	4	6.6
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(3.3)	ND(5.0)	ND(5.0)

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	4/12/2018
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 APPLICABLE

0 50 100
GRAPHIC SCALE IN FEET

SUMMIT NATIONAL SUPERFUND SITE
PORTAGE COUNTY, OHIO

COMPILED BY: MAM	PLATE TITLE: WATER QUALITY DATA RESULTS, WATER TABLE UNIT, 2004 & 2009-2018
DRAWN BY: MAM	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE, DEERFIELD, OHIO
CHECKED BY: ADG	PREPARED BY: EAGON & ASSOCIATES, INC.
APPROVED BY: MTG	PLATE NUMBER: 1
DATE: 10/05/18	

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EAGON & ASSOCIATES, INC.

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	4/12/2016	4/12/2017	4/9/2018
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)/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)	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)	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(10)	ND(5.0)	ND(5.0)/ND(5.0)	ND(10)/ND(10)	ND(5.0)	ND(5.0)/ND(5.0)	ND(5.0)	ND(5.0)	ND(10)	ND(10)	ND(10)
Benzene	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)	ND(0.5)	ND(0.5)	ND(1.0)	ND(1.0)	ND(1.0)
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)/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)/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)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	0.56 J/0.57 J	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(0.5)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	6.7/6.2	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)	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)/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)/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)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylenes [total]	1.6/1.5	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)	ND(2.0)	ND(2.0)	ND(2.0)

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	4/13/2016	4/13/2017	4/10/2018
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)	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)	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)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)	13.8	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)	4.1 J	ND (10)
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)	ND(1.0)	ND(1.0)	ND(1.0)
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)	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)	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)	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)	ND(1.0)	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)	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)	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)	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)	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(2.0)	ND(2.0)	ND(2.0)

MW-209	10/4/2004	4/20/2009	6/2/2010	4/29/2011	4/24/2012	4/30/2013	5/6/2014	4/21/2015	4/13/2016	4/13/2017	4/10/2018
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)/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)	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)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	3.2 J	14.4	9.6/9.1	ND(10)	ND(5.0)/ND(5.0)	12.8	9.3/10	5.1	5.1 J	5.6 J	4.4 J
Benzene	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(0.5)/ND(0.5)	ND(0.5)	ND(1.0)	ND(1.0)	ND(1.0)
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)/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)/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)	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(1.0)	ND(1.0)	ND(0.5)/ND(0.5)	ND(1.0)	ND(1.0)	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)/ND(1.0)	0.39 J	ND(1.0)	ND(1.0)	0.31 J
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)/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)/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)/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)/ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	0.26 J

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	4/12/2016	4/12/2017	4/9/2018
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) / 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)	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)	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)	ND(10) / ND(10)	ND(10)	ND(10)
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)	ND(1.0) / ND(1.0)	ND(1.0)	ND(1.0)
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) / 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) / 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)	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)	ND(1.0) / ND(1.0)	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) / 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) / 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) / 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) / 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(2.0) / ND(2.0)	ND(2.0)	ND(2.0)

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	4/12/2018
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 APPLICABLE

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
PORTAGE COUNTY, OHIO

COMPILED BY: MAM	PLATE TITLE: WATER QUALITY DATA RESULTS, UPPER INTERMEDIATE UNIT, 2004 & 2009-2018
DRAWN BY: MAM	PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE *DEERFIELD, OHIO*
CHECKED BY: ADG	PREPARED BY: EAGON & ASSOCIATES, INC.
APPROVED BY: MTG	PLATE NUMBER: 2
DATE: 10/05/18	

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