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By PSTB at 3:11 pm, Feb 12, 2021

February 12, 2021

Ms. Renee Romero
New Mexico Environment Department
Petroleum Storage Tank Bureau
1914 West Second Street
Roswell, New Mexico 88201-1712

Re: Third Quarter Groundwater Monitoring Report
Former Y Station, 721 Commerce Way, Clovis, New Mexico
Facility #53742, Release ID #4746, WPID #4133

Dear Ms. Romero:

Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit this report documenting the third quarter groundwater monitoring activities conducted at the above-referenced site from December 27 through 29, 2020, in accordance with work plan identification (WPID) #4133. All work was completed in accordance with the requirements of Part 119 of the New Mexico Petroleum Storage Tank Regulations and DBS&A standard operating procedures.

DBS&A plans to invoice a reduced amount of \$25,062.59 for Deliverable ID #4133-4 (including New Mexico gross receipts tax). The overall number of lab samples was reduced from 28 to 25, the level of effort for Bennett pump sampling was reduced from 7 to 3 days, and HydraSleeve sampling devices were purchased for 14 additional wells.

Please contact us at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Thomas Golden, P.E.
Project Engineer

Jason Raucci, P.G.
Geologist

TG/JR/ed
Attachments

Daniel B. Stephens & Associates, Inc.

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**Third Quarter
Groundwater Monitoring Report
Former Y Station
721 Commerce Way, Clovis, New Mexico
Facility ID #53742, Release ID #4746**

Prepared for

**New Mexico Environment Department
Petroleum Storage Tank Bureau
Roswell, New Mexico**

February 12, 2021



Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109



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Third Quarter Groundwater Monitoring Report Former Y Station

**721 Commerce Way, Clovis, New Mexico
Facility ID #53742, Release ID #4746**

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this report documenting results of third quarter groundwater monitoring activities at the Former Y Station State Lead site (the site), located at 721 Commerce Way in Clovis, New Mexico (Figure 1). All field activities were performed in accordance with DBS&A standard operating procedures (SOPs) and work plan identification (WPID) #4133 (DBS&A, 2019), approved by the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) on February 19, 2020 (NMED, 2020). The report was prepared in accordance with applicable sections of Part 119 of the Petroleum Storage Tank Regulations (PSTR).

1.1 Site Background

Initial site investigation activities completed by the previous consultant in 2011 were driven by the discovery of a release during a tank pull at the Allsup's No. 320 site (Allsup's), located at the corner of Prince and 21st Streets. Subsequent investigations from 2012 to 2016 revealed a large dissolved-phase hydrocarbon plume south of the Allsup's, centered near the intersection of Prince Street and Commerce Way. Interviews with local residents and inspection of public records by the previous consultant revealed that a Shamrock-brand fueling station was formerly present on the southwest corner of this intersection, locally referred to as "the Y". Former Y Shamrock was reportedly active from the late 1950s through approximately 1981. The site is currently an optical retail center and is surrounded by a variety of other commercial land uses, such as big-box retail stores, fast food restaurants, and existing gasoline service stations. Residential neighborhoods are adjacent to the commercial corridor to the west and east.

The previous consultant oversaw installation the of 10 groundwater monitor wells (BW-1 through BW-10) in the vicinity of the Former Y station, including 3 groundwater monitor wells on the



Allsup's property (Figure 2). As of July 2016, the extent of groundwater contamination remained undefined to the south and east. Benzene was the constituent found at the highest concentrations and across the greatest areal extent. Concentrations of other contaminants of concern above applicable regulatory standards were typically localized near the center of the benzene plume.

On October 24, 2017, DBS&A submitted a proposal in response to the request for proposals (RFP) for State Lead remediation services for the site. DBS&A was deemed to be the most responsive bidder and entered into a contract with NMED executed on May 15, 2018. On May 30, 2019, DBS&A initiated an additional investigation program for installation of 9 new monitor and/or remediation wells at the site. One of the primary goals was to characterize soil and groundwater conditions directly under the site of the Former Y station.

Light nonaqueous-phase liquid (LNAPL) was first observed by DBS&A in monitor well BW-5 on March 6, 2019. The LNAPL thickness in BW-5 has been approximately 9 inches in subsequent groundwater monitoring events. Based on the observed groundwater flow direction to the south-southeast, it is reasonable to assume that LNAPL in BW-5 could have emanated from a source area associated with the Former Y station. Based on the location of BW-5 relative to the presumptive release point, a significant volume of LNAPL is believed to exist within the soil column and at the water table under North Prince Street and Commerce Way.

Data collected during installation of remediation wells RW-1 through RW-4 confirmed the conceptual site model detailed in DBS&A's proposal for State Lead remediation services. Significant contamination is present in the vadose zone adjacent to the release point; however, contamination in the smear zone for downgradient wells appeared to be less than previously believed.

Based on the 2019 investigation findings, DBS&A recommended that corrective action proceed as detailed in the DBS&A proposal for State Lead remediation services, with the remediation system prioritizing removal of source area mass (LNAPL and hydrocarbons in the vadose zone) using multi-zone remediation wells located near the known extent of LNAPL. DBS&A is currently developing a final remediation plan (FRP) for the site. DBS&A also recommended installing three new monitor wells to define the extent of contamination cross-gradient to the



east. Monitor wells MW-15, MW-16, and MW-17 were installed in May and June 2020 (DBS&A, 2020).

1.2 Scope of Work

The scope of work completed under the approved workplan consisted of conducting the third quarter groundwater sampling event. To ensure that project objectives were achieved, an authorized representative of DBS&A maintained direct supervisory control of all aspects of the project.

2. Groundwater Monitoring

DBS&A personnel conducted the third quarter groundwater monitoring event at the site on December 27 through 29, 2020. Activities conducted during the monitoring event included gauging fluid levels in all site wells and collecting groundwater samples from up to 18 site wells, provided they did not contain LNAPL. The initial work plan prioritized collecting samples using a Bennett pump, with a small component of HydraSleeve sampling. In an email exchange dated November 13, 2020, the PSTB approved DBS&A's recommended changes to the sampling plan, which switched the emphasis to HydraSleeve sampling, as discussed in section 2.3. LNAPL was recovered from any well containing LNAPL at a thickness of greater than $\frac{1}{8}$ inch (0.01 foot). The sampling protocol is provided in Appendix A. Field notes recorded during sampling activities are included in Appendix B.

2.1 Fluid Level Gauging

On December 27, 2020, DBS&A personnel used an electronic interface probe to gauge the depth to water (and LNAPL where present) in all existing monitor wells. Fluid level measurements from this and previous groundwater monitoring events are summarized in Table 1. Based on information determined from LNAPL sampling performed during the June 2019 groundwater monitoring event, gasoline was shown to be the predominant fuel present at the site. Therefore, the potentiometric surface elevation for any well containing LNAPL was corrected using a specific gravity of 0.75. Fluid level data were used to prepare a potentiometric surface elevation map (Figure 3).



2.2 LNAPL Recovery

LNAPL was present in monitor well BW-5 at a thickness of 0.14 foot on December 27, 2020. LNAPL was recovered by hand bailing for approximately 1 hour on December 29, 2020, using a new, dedicated, disposable polyethylene bailer. A total of 0.07 gallon of LNAPL was recovered, with a final LNAPL thickness of approximately 0.01 foot (Table 2). Initial LNAPL thicknesses have decreased with each LNAPL recovery event since it was first measured in March 2019 at 1.92 feet.

2.3 Groundwater Sampling

Following gauging, a total of 17 site wells were sampled from December 27 through 29, 2020. This included BW-4, BW-7, BW-7R, BW-8 through BW-10, MW-11 through MW-17, and RW-1 through RW-4.

The 17 site wells were sampled using HydraSleeve no-purge groundwater sampling systems. HydraSleeve remain closed due to water pressure until they are retrieved. The upward motion of retrieval opens the HydraSleeve's check valve, and the bag fills from the top. When the HydraSleeve sample bag is full, the check valve closes, allowing the sample to be collected from a discrete depth, reducing turbidity of the sample, and preventing water above (or below) the desired sample zone from entering the sample bag. The sample bag is pierced with a straw to transfer the sample to laboratory provided sample bottles.

DBS&A deployed the HydraSleeve sampler near the middle of the saturated screen interval for each well a minimum of 2 hours before each sample was collected, with most samplers in place overnight. In addition, samples were collected from wells BW-8 and MW-11 using HydraSleeve samplers deployed 5 feet below the static water surface following the September 2020 monitoring event. This provided comparison data regarding the length of time that HydraSleeve sampling devices were deployed prior to sampling.

In addition to using HydraSleeve samplers, wells BW-7R, BW-8, MW-11, MW-16, RW-3, and RW-4 were also purged and sampled using a DBS&A-owned Bennett pump. The Bennett pump is a piston fluid pump with two motor pistons capable of lifts of up to 1,000 feet. Nitrogen gas is



conveyed to the pump to operate the piston, which returns groundwater to the surface. The pump and associated tubing coils on and off a reel operated by a 50-ampere (amp) motor. The tubing bundle, reel, and motor are all mounted on a flatbed trailer.

During Bennett pump purging, extracted groundwater water was pumped into a calibrated, 5-gallon bucket to assess the presence of LNAPL and measure purge volume. Purge water from the Bennett pump was handled in accordance with the sampling protocol (Appendix A). Groundwater field parameters, including dissolved oxygen (DO), oxygen/reduction potential (ORP), electrical conductivity (EC), pH, and temperature, were measured in the field during purging and recorded in the field notes (Appendix B).

Groundwater samples collected from the wells were transferred directly from the HydraSleeve or Bennett pump tubing into laboratory-prepared sample containers containing the appropriate preservatives. The samples were labeled and preserved on ice in an insulated cooler for delivery to Hall Environmental Analysis Laboratory (HEAL) for analysis; samples were accompanied by full chain of custody documentation at all times. Groundwater samples were analyzed for volatile organic compounds (VOCs) using Environmental Protection Agency (EPA) method 8260B (full list) and for 1,2-dibromoethane (EDB) using EPA method 504.1. The complete laboratory analytical reports for collected groundwater samples are included in Appendix C.

2.4 Results

Results from December 2020 groundwater monitoring are discussed in the following sections.

2.4.1 Fluid Level Measurements

Fluid levels measured on December 27, 2020, are summarized in Table 1 and were used to prepare the potentiometric surface map provided as Figure 3. Groundwater is encountered under the site at depths that range from approximately 319 to 330 feet below ground surface and generally flows to the south-southeast with an approximate gradient of 0.003 foot per foot. The overall flow direction and gradient are similar to that noted during previous monitoring events. Since 2014, groundwater elevations have decreased approximately 3.5 feet, resulting in an average annual decrease of 0.5 foot per year.



2.4.2 Groundwater Analysis

Groundwater samples from the 17 monitor wells that did not contain a measurable LNAPL thickness were submitted to HEAL for analysis. The full laboratory analytical report is provided as Appendix C; results are summarized in Table 3 and on Figure 4. Benzene, 1,2-dichloroethane (EDC), and EDB isoconcentration maps were prepared to show the extent of dissolved-phase contamination associated with the site (Figures 5, 6, and 7, respectively). Graphs showing historical trends in monitor well contaminant concentrations are provided in Appendix D.

During the current monitoring event, COC concentrations were below laboratory reporting limits or applicable New Mexico Water Quality Control Commission (NMWQCC) standards in groundwater samples collected from monitor wells BW-4, BW-9, BW-10, MW-14, MW-15, and MW-17. The samples collected from BW-7, BW-7R, BW-8, MW-11, MW-12, MW-13, MW-16, and RW-1 through RW-4 contained multiple COCs at concentrations exceeding NMWQCC standards. BW-5 was initially reported by the previous consultant to contain LNAPL in February 2019, but DBS&A first measured LNAPL with an interface probe in the well in March 2019. Notable changes or trends include (Appendix D):

- BW-4: Except for EDC in June 2020, COCs have been below applicable groundwater standards since the initial DBS&A sampling event in May 2019. Benzene was detected at concentrations as high as 1,100 micrograms per liter ($\mu\text{g/L}$) in May 2015; however, samples collected by DBS&A have consistently shown benzene to be below the NMWQCC standard of 5 $\mu\text{g/L}$. Due to a relatively high soil vapor extraction radius of influence at the site, contamination may have been drawn to BW-4 during vapor sampling activities conducted by the previous consultant. DBS&A will continue to monitor trends associated with this well closely.
- BW-7: Since September 2015, concentrations of BTEX constituents have decreased from 17,750 to 793.1 $\mu\text{g/L}$, including individual decreases in benzene (9,400 to 790 $\mu\text{g/L}$), toluene (5,000 to <2.0 $\mu\text{g/L}$), ethylbenzene (750 to <2.0 $\mu\text{g/L}$), and total xylenes (2,600 to 3.1 $\mu\text{g/L}$). During the current monitoring event, benzene (790 $\mu\text{g/L}$) and EDC (370 $\mu\text{g/L}$) were detected at concentrations exceeding the respective



NMWQCC standards. Similar to BW-4, the spike in COC concentrations in 2015 and 2016 may be related to vapor sampling activities conducted by the previous consultant.

- BW-7R: COC concentrations have not varied significantly since the well was installed in 2019, but concentrations reported in recent samples collected using the HydraSleeve sampler were generally higher than previous samples collected using the Bennett pump. During the current monitoring event, benzene (610 µg/L) and EDC (88 µg/L) were detected at concentrations exceeding the respective NMWQCC standards. Recent COC concentrations are similar to well BW-7.
- BW-8: COC concentrations have not varied significantly since the well was installed in 2016, but were considerably higher in recent samples collected using HydraSleeve samplers. During the current monitoring event, benzene (15,000 µg/L), toluene (24,000 µg/L), ethylbenzene (1,400 µg/L), total xylenes (7,400 µg/L), EDB (0.20 µg/L), EDC (77 µg/L), and total naphthalenes (413 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.
- MW-11: COC concentrations have not changed significantly since the well was installed in September 2019. During the current monitoring event, benzene (4,400 µg/L), EDB (0.30 µg/L), EDC (180 µg/L), and total naphthalenes (87 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.
- MW-12: COC concentrations have not changed significantly since the well was installed in September 2019, but concentrations reported using the recent HydraSleeve sampler were generally lower than previous samples collected using the Bennett pump. During the current monitoring event, benzene (460 µg/L), EDB (0.21 µg/L), and EDC (68 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.
- MW-13: COC concentrations indicate this well is on the western edge of the dissolved-phase plume. Benzene (22 µg/L), EDB (0.079 µg/L), and EDC (26 µg/L) were detected at concentrations above the respective NMWQCC standards.



- MW-14: COC concentrations have consistently been below laboratory reporting limits since June 2020.
- MW-16: COC concentrations reported using the recent HydraSleeve sampler were generally lower than samples collected using the Bennett pump. Benzene (55 µg/L), EDB (0.25 µg/L), and EDC (30 µg/L) were detected at concentrations exceeding the respective NMWQCC standards. All other detected COC concentrations were below the respective NMWQCC standards.
- MW-15 and MW-17: COC concentrations have not been detected at concentrations above laboratory reporting limits since the wells were installed in June 2020.

Monitor wells BW-7R, BW-8, MW-11, MW-16, RW-3, and RW-4 were sampled using both HydraSleeve no-purge groundwater sampling systems and the Bennett pump, as discussed in Section 2.3. Data for all samples are included in Table 3, and comparison data are presented on Figure 8. Notable comparisons between the two sampling technologies include:

- Wells located near the perimeter of the hydrocarbon plume showed the greatest fluctuations. Concentrations of total BTEX and total naphthalenes in the HydraSleeve samples from monitor well BW-8 were four to five times higher than the concentrations from the corresponding Bennett pump sample. COC concentrations in BW-7R and RW-4 HydraSleeve samples were also higher. Total BTEX and total naphthalenes concentrations were generally higher in the Bennett pump samples from monitor wells RW-3 and MW-16.
- EDB and EDC concentrations were generally similar using the two sampling technologies for wells located close to the source area. EDB concentrations were slightly higher in downgradient wells, such as BW-7R, MW-11, and MW-16.
- HydraSleeve samples collected using sampling devices deployed during the previous monitoring event generally resulted in similar concentrations as the sampling devices deployed within 24 hours of sample collection.



DBS&A discussed the results with a representative of EON Products, Inc., the regional distributor for HydraSleeve samplers. Their general opinion is that the two samples do not represent the exact same groundwater. Purge volumes for the wells sampled with the Bennett pump range from approximately 50 to 110 gallons, and could produce lateral and vertical mixing within, and adjacent to, the well bore. Preferential flow paths in the adjacent formation, such as bedding planes or sand and gravel lenses, could result in pulling water from 2 to 10 feet from the well during volume purging. Contaminant concentrations within these flow paths may vary from the adjacent less-permeable aquifer materials. For example, COC concentrations from the BW-8 HydraSleeve sample suggest that a thin sheen of LNAPL could be present in the vicinity of this well, which is possible given the proximity to the release. The well is also close to the western-edge of the plume, and cleaner water could be drawn into the well during volume purging, diluting the in-well concentrations. DBS&A believes both sets of data are valid, help explain the extent of contamination, and will be useful for design of the remediation system.

3. Conclusions and Recommendations

Based on data collected during recent groundwater monitoring events, concentrations of dissolved-phase COCs in excess of NMWQCC standards extend more than 1,000 feet downgradient from the presumed release. COC concentrations in recently installed monitor wells MW-15 and MW-17 were below laboratory reporting limits, and define the dissolved-phase plume east of MW-12 and MW-14. The dissolved-phase plume remains undefined cross-gradient to the east of monitor well MW-16, but that will not affect the overall remediation plan for the site.

LNAPL has been consistently present in monitor well BW-5 since at least February 2019. Based on the location of BW-5 relative to the release point, measurable LNAPL is believed to exist under North Prince Street and Commerce Way. Remediation wells RW-1 through RW-4 do not currently contain a measurable thickness of LNAPL; however, more time may be needed for LNAPL to accumulate in the wells. Decreasing in-well LNAPL thickness with successive monitoring events is a positive trend for BW-5.

Based on these findings, DBS&A recommends that corrective action proceed as detailed in the DBS&A proposal for State Lead remediation services. The remediation system should prioritize



removal of source area mass (LNAPL and hydrocarbons in the vadose zone) using multi-zone remediation wells located near the known extent of LNAPL. Single-zone wells can be used for dissolved-phase plume containment. Deep vadose zone contamination was found in the multi-zone remediation wells, but not in single-zone wells south of RW-4, so well locations appear to have been chosen appropriately for the distribution of contamination.

DBS&A recommends that quarterly groundwater monitoring continue at the site to establish trends in contaminant concentrations prior to and following implementation of a corrective action system. No additional monitor wells are needed at this time.

HydraSleeve sample results continue to be promising; at this site, using this sampling method will be more cost-effective than volume-purge methods. When combined with the Bennett pump results, HydraSleeve data help define the current extent of contamination, while also providing sufficient data for remediation system design. Differences in COC concentrations do not change the overall state of compliance regarding any of the site monitor wells. Sufficient history of pumped groundwater samples exists to assess potential concentrations of extracted groundwater during corrective action. Therefore, DBS&A recommends that HydraSleeve samplers be used in future groundwater monitoring events to monitor plume stability and overall compliance. If approved, DBS&A will reduce costs for the fourth quarter sampling event to eliminate Bennett pump sampling.



Statement of Familiarity

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: 

Authorized Representative: Thomas Golden, P.E.

Affiliation: Daniel B. Stephens & Associates, Inc.

Title: Project Engineer

Date: February 12, 2021



References

Daniel B. Stephens & Associates, Inc. (DBS&A). 2019. *Work plan for site investigation, groundwater monitoring, and final remediation plan development, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico*. Submitted to the New Mexico Environment Department Petroleum Storage Tank Bureau. December 20, 2019.

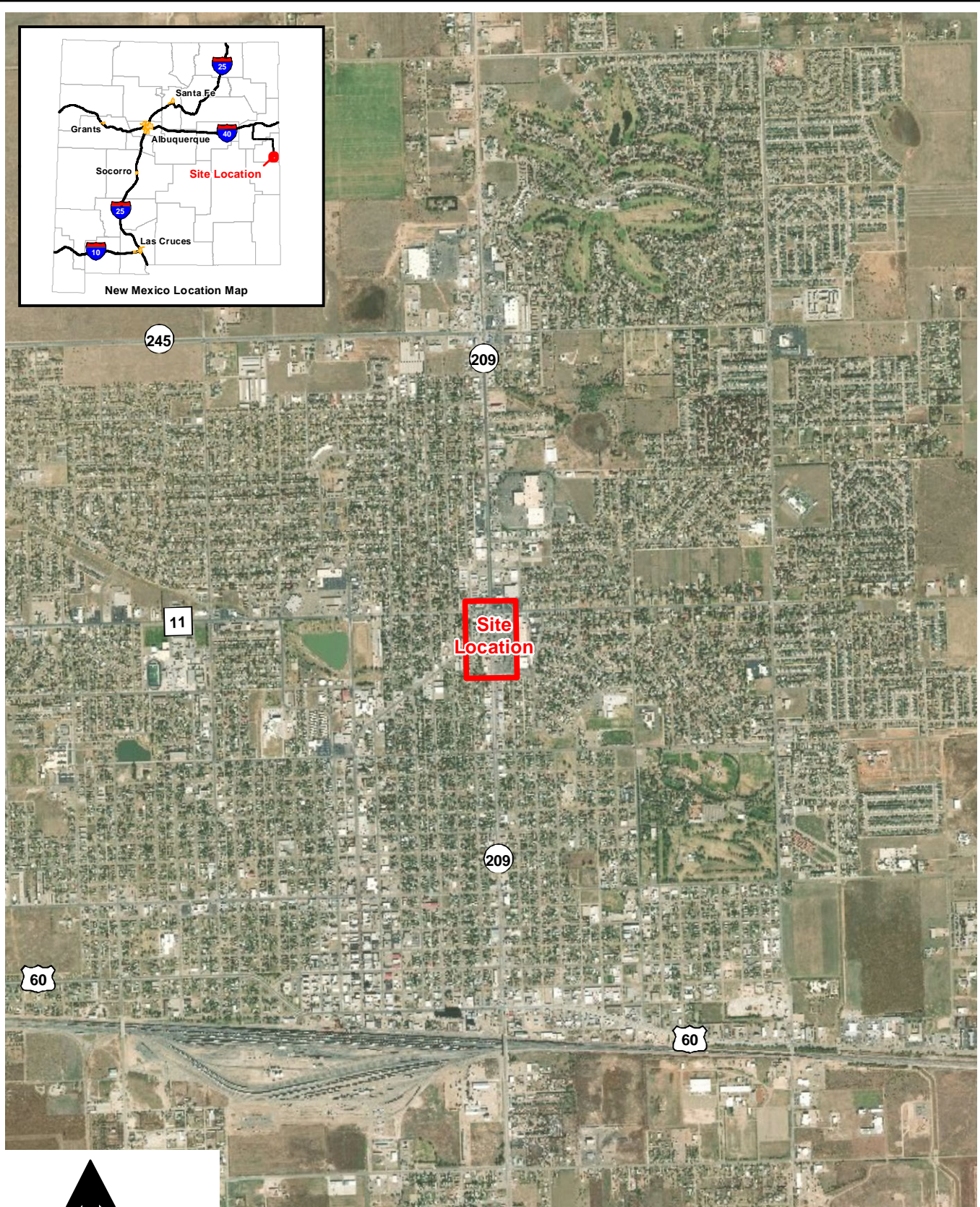
DBS&A. 2020. *Final well installation and first quarter groundwater monitoring report, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico*. Submitted to the New Mexico Environment Department Petroleum Storage Tank Bureau. July 22, 2020.

New Mexico Environment Department (NMED). 2020. Letter from Dana Bahar to Thomas Golden, Daniel B. Stephens & Associates, Inc., regarding Phase 1 fixed-price workplan approval for Former Y Station, 721 Commerce Way, Clovis, New Mexico. February 19, 2020.

Figures



New Mexico Location Map



0 0.25 0.5
Mile

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Area Map

S:\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\WXDS\F01_AREA_MAP\MXD



Daniel B. Stephens & Associates, Inc.
6/3/2019 JN DB18.1157.00

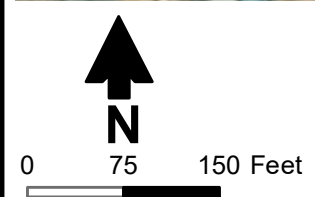
Figure 1



FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Site Map

Figure 2





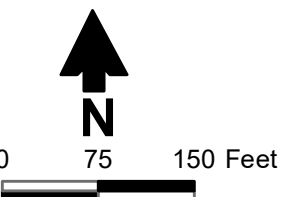
Explanation

- MW-14** Monitor well designation
- 3946.04** Potentiometric surface elevation (ft msl)
- ⊕ Single completion monitor well
- ⊙ Nested monitor well
- Potentiometric surface elevation contour (ft msl)

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
Potentiometric Surface Elevations
 December 27, 2020

Figure 3





Explanation

- ⊕ Single completion monitor well
- ⊙ Nested monitor well

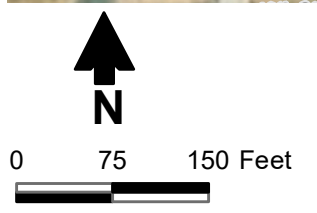
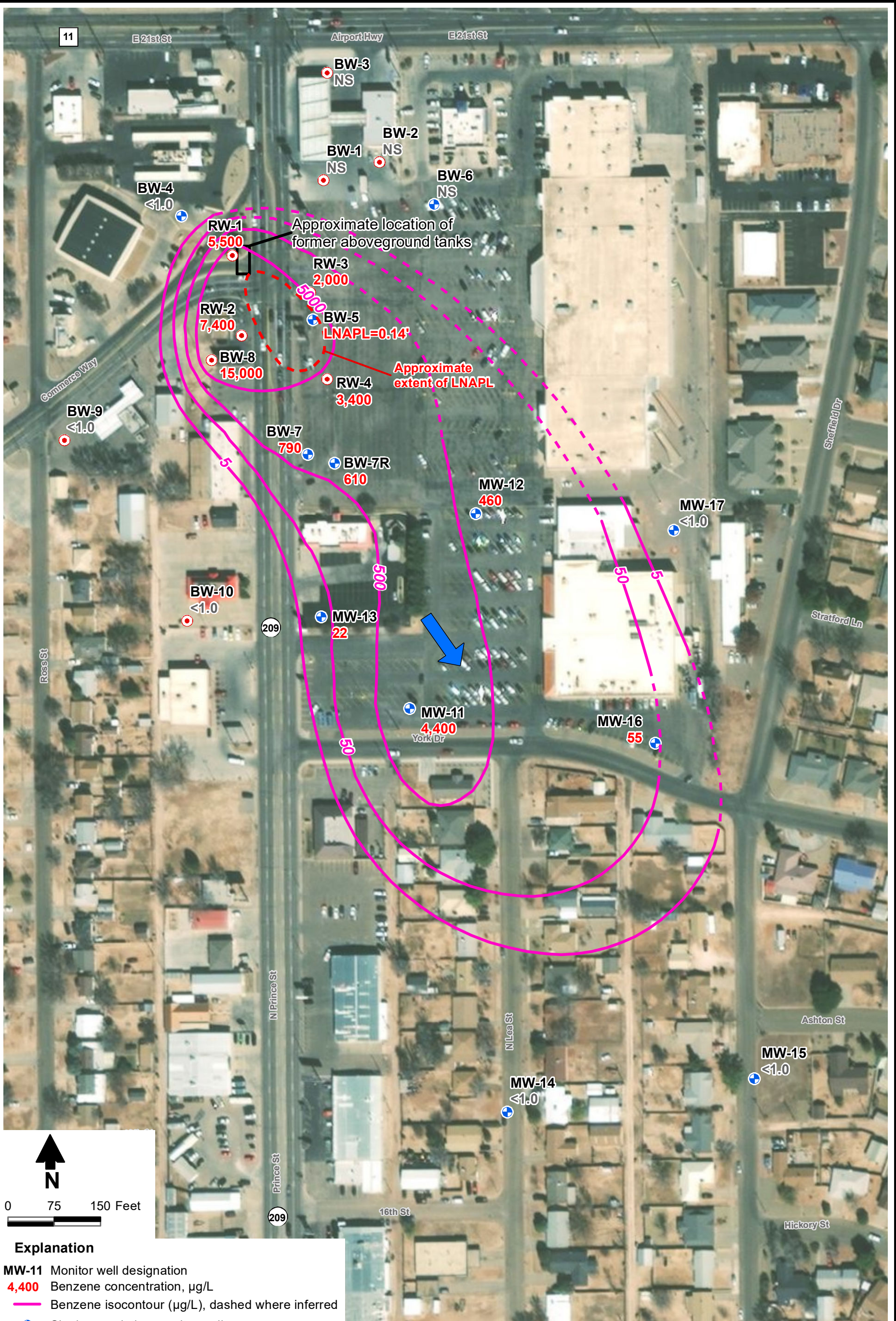
Location designation		Sample Date	
Benzene	Toluene	Ethylbenzene	Total Xylenes
BTEX	EDB	EDC	Total Naphthalenes
MTBE			

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. ^a Laboratory reporting limit is equal to or greater than the applicable standard.
 4. Samples presented on this figure were collected using HydraSleeve sampling devices.

**FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
 Distribution of Dissolved-Phase
 Contaminants - December 2020**

Figure 4





Explanation

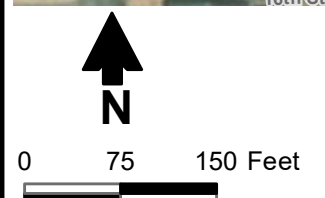
- MW-11 Monitor well designation
- 4,400 Benzene concentration, µg/L
- Benzene isoconcentration (µg/L), dashed where inferred
- ⊕ Single completion monitor well
- ⊙ Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
Benzene Isoconcentration Map
 December 2020

Figure 5





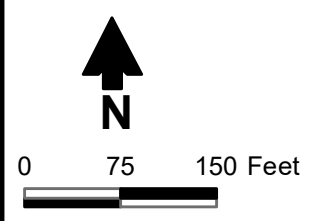
- Explanation**
- MW-11 Monitor well designation
 - 180 EDC concentration, µg/L
 - EDC isoconcentration (µg/L), dashed where inferred
 - ⊕ Single completion monitor well
 - ⊙ Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. RED indicates concentration that exceeds NMWQCC standard.
 3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
EDC Isoconcentration Map
 December 2020

Figure 6





- Explanation**
- MW-11 Monitor well designation
 - 0.30 EDB concentration, µg/L
 - EDB isoconcentration (µg/L), dashed where inferred
 - ⊕ Single completion monitor well
 - ⊙ Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. RED indicates concentration that exceeds NMWQCC standard.
 3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
EDB Isoconcentration Map
 December 2020

Figure 7



Bennett Pump Sample
BW-8 12/29/2020

4,100	5,600	450	1,800
11,950	0.11	90	146
<5.0			

HydraSleeve Samples
BW-8 12/29/2020

15,000	24,000	1,400	7,400
47,800	0.20	77	413
<20			

BW-8 (3 month bag) 12/29/2020

17,000	31,000	2,000	11,000
61,000	0.19	76	570
<20			

HydraSleeve Sample
BW-7R 12/28/2020

610	3.6	11	2.5
627.1	0.044	88	6.7
<1.0			

Bennett Pump Sample
BW-7R 12/28/2020

130	1.5	3.2	2.1
136.8	0.29	71	2.9
<1.0			

Bennett Pump Sample
RW-3 12/28/2020

3,000	2,500	200	1,200
6,900	14	94	90
<1.0			

Bennett Pump Sample
RW-4 12/28/2020

1,900	1,400	160	650
4,110	8.8	33	27
<10			

HydraSleeve Sample
RW-4 12/28/2020

3,400	1,100	220	760
5,480	10	56	35
<10			

Bennett Pump Sample
MW-11 12/29/2020

3,400	5.1	280	450
4,135.1	0.93	120	84
<1.0			

HydraSleeve Samples
MW-11 12/29/2020

4,400	2.8	310	46
4,758.8	0.30	180	87
<1.0			

MW-11 (3 month bag) 12/29/2020

3,300	2.9	150	24
3,476.9	0.11	160	45.1
<1.0			

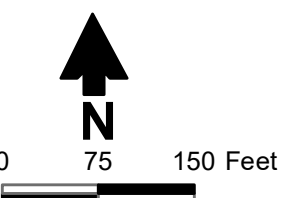
Bennett Pump Sample
MW-16 12/28/2020

1,500	7.3	49	380
1,936.3	0.52	70	18.1
<1.0			

HydraSleeve Sample
MW-16 12/28/2020

55	<1.0	2.7	29
86.7	0.25	30	<10
<1.0			

BW-5 LNAPL=0.14'



Explanation

- Single completion monitor well
- Nested monitor well

Location designation		Sample Date	
BTEX	EDB	Ethylbenzene	Total Naphthalenes
		EDC	Total Naphthalenes
		MTBE	

- Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. ^a Laboratory reporting limit is equal to or greater than the applicable standard.

**FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
 Water Quality Comparison
 Bennett Pump versus HydraSleeve**

Figure 8



Tables



**Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (ft msl)
BW-1	295-345	4279.88 ^c	04/13/12	322.49	—	0.00	3957.39
			07/27/12	322.69	—	0.00	3957.19
			09/24/12	322.75	—	0.00	3957.13
		4279.55	04/29/14	325.75	—	0.00	3953.80
			05/08/15	326.60	—	0.00	3952.95
			09/10/15	326.96	—	0.00	3952.59
			03/29/16	327.12	—	0.00	3952.43
			07/26/16	327.34	—	0.00	3952.21
			07/10/18 ^d	327.93	—	0.00	3951.62
			02/14/19 ^d	328.18	—	0.00	3951.37
			03/06/19	328.11	—	0.00	3951.44
			05/02/19 ^d	328.41	—	0.00	3951.14
			05/20/19	328.20	—	0.00	3951.35
			08/13/19	328.61	—	0.00	3950.94
			09/16/19	328.85	—	0.00	3950.70
			06/08/20	328.91	—	0.00	3950.64
			09/09/20	329.24	—	0.00	3950.31
12/27/20	329.27	—	0.00	3950.28			
BW-2	287-347	4280.53 ^c	10/26/09	323.12	—	0.00	3957.41
			09/24/12	323.21	—	0.00	3957.32
		4280.23	04/29/14	326.14	—	0.00	3954.09
			05/08/15	327.00	—	0.00	3953.23
			09/10/15	327.33	—	0.00	3952.90
			03/29/16	327.52	—	0.00	3952.71
			07/26/16	327.78	—	0.00	3952.45



**Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (ft msl)
BW-2 (cont.)	287-347 (cont.)	4280.23 (cont.)	07/10/18 ^d	328.38	—	0.00	3951.85
			02/14/19 ^d	328.60	—	0.00	3951.63
			03/06/19	328.53	—	0.00	3951.70
			05/02/19 ^d	328.97	—	0.00	3951.26
			05/20/19	328.61	—	0.00	3951.62
			08/13/19	329.03	—	0.00	3951.20
			09/17/19	328.98	—	0.00	3951.25
			06/08/20	329.34	—	0.00	3950.89
			09/09/20	329.62	—	0.00	3950.61
			12/27/20	329.75	—	0.00	3950.48
BW-3	287-347	4280.17 ^c	10/26/09	322.36	—	0.00	3957.81
			09/24/12	322.44	—	0.00	3957.73
		4279.91	04/29/14	325.38	—	0.00	3954.53
			05/08/15	326.20	—	0.00	3953.71
			09/10/15	326.56	—	0.00	3953.35
			03/29/16	326.71	—	0.00	3953.20
			07/26/16	326.94	—	0.00	3952.97
			07/10/18 ^d	327.52	—	0.00	3952.39
			02/14/19 ^d	327.76	—	0.00	3952.15
			03/06/19	327.75	—	0.00	3952.16
			05/02/19 ^d	328.00	—	0.00	3951.91
			05/20/19	327.79	—	0.00	3952.12
			08/13/19	328.19	—	0.00	3951.72
			09/16/19	328.11	—	0.00	3951.80
06/08/20	328.49	—	0.00	3951.42			



**Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (ft msl)
BW-3 (cont.)	287–347 (cont.)	4279.91 (cont.)	09/09/20	328.79	—	0.00	3951.12
			12/27/20	328.87	—	0.00	3951.04
BW-4	275–345	4280.02	04/29/14	326.04	—	0.00	3953.98
			05/08/15	326.80	—	0.00	3953.22
			09/10/15	327.23	—	0.00	3952.79
			03/29/16	327.27	—	0.00	3952.75
			07/26/16	327.52	—	0.00	3952.50
			07/10/18 ^d	327.95	—	0.00	3952.07
			02/14/19 ^d	328.29	—	0.00	3951.73
			03/06/19	328.20	—	0.00	3951.82
			05/02/19 ^d	328.59	—	0.00	3951.43
			05/20/19	328.36	—	0.00	3951.66
			08/13/19	328.74	—	0.00	3951.28
			09/17/19	328.59	—	0.00	3951.43
			06/08/20	329.04	—	0.00	3950.98
BW-5	273.5–348.5	4278.99	09/09/20	329.33	—	0.00	3950.69
			12/27/20	329.42	—	0.00	3950.60
			04/29/14	325.53	—	0.00	3953.46
			05/08/15	326.27	—	0.00	3952.72
			09/10/15	326.73	—	0.00	3952.26
			03/29/16	326.87	—	0.00	3952.12
			07/26/16	326.98	—	0.00	3952.01
			07/10/18 ^d	327.53	—	0.00	3951.46
02/14/19 ^d	329.46	NA	NA	NA			
03/06/19	329.28	327.36	1.92	3951.15			



**Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (ft msl)
BW-5 (cont.)	273.5–348.5 (cont.)	4278.99 (cont.)	05/02/19 ^d	329.70	NA	NA	NA
			05/20/19	329.35	327.58	1.77	3950.97
			08/13/19	328.89	328.20	0.69	3950.62
			09/20/19	328.94	328.18	0.76	3950.62
			06/08/20	329.65	329.07	0.58	3949.78
			09/09/20	329.34	328.92	0.42	3949.97
			12/27/20	329.20	329.06	0.14	3949.90
BW-6	275–345	4280.24	04/29/14	326.46	—	0.00	3953.78
			05/08/15	327.27	—	0.00	3952.97
			09/10/15	327.60	—	0.00	3952.64
			03/29/16	327.70	—	0.00	3952.54
			07/26/16	328.08	—	0.00	3952.16
			07/10/18 ^d	328.72	—	0.00	3951.52
			02/14/19 ^d	328.91	—	0.00	3951.33
			03/06/19	328.82	—	0.00	3951.42
			05/02/19 ^d	329.23	—	0.00	3951.01
			05/20/19	328.91	—	0.00	3951.33
			08/13/19	329.35	—	0.00	3950.89
			09/16/19	329.18	—	0.00	3951.06
			06/08/20	329.70	—	0.00	3950.54
			09/09/20	330.00	—	0.00	3950.24
12/27/20	330.07	—	0.00	3950.17			
BW-7	284–349	4277.47	04/29/14	324.63	—	0.00	3952.84
			05/08/15	325.42	—	0.00	3952.05
			09/10/15	325.84	—	0.00	3951.63



**Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (ft msl)
BW-7 (cont.)	284–349 (cont.)	4277.47 (cont.)	03/29/16	326.01	—	0.00	3951.46
			07/26/16	326.14	—	0.00	3951.33
			03/06/19	326.88	—	0.00	3950.59
			05/20/19	327.11	—	0.00	3950.36
			08/13/19	327.47	—	0.00	3950.00
			09/18/19	327.39	—	0.00	3950.08
			06/08/20	327.83	—	0.00	3949.64
			09/09/20	328.13	—	0.00	3949.34
BW-7R	286.79-357.07	4277.44	12/27/20	328.22	—	0.00	3949.25
			08/13/19	327.33	—	0.00	3950.11
			09/21/19	327.80	—	0.00	3949.64
			06/08/20	327.83	—	0.00	3949.61
			09/09/20	328.08	—	0.00	3949.36
BW-8	287–347	4278.74	12/27/20	328.19	—	0.00	3949.25
			03/29/16	326.61	—	0.00	3952.13
			07/26/16	326.75	—	0.00	3951.99
			07/10/18 ^d	327.33	—	0.00	3951.41
			02/14/19 ^d	327.73	—	0.00	3951.01
			03/06/19	327.55	—	0.00	3951.19
			05/20/19	327.72	—	0.00	3951.02
			08/13/19	328.10	—	0.00	3950.64
			09/18/19	327.99	—	0.00	3950.75
			06/08/20	328.34	—	0.00	3950.40
09/09/20	328.73	—	0.00	3950.01			
12/27/20	328.89	—	0.00	3949.85			



**Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (ft msl)
BW-9	287–347	4278.31	03/29/16	326.30	—	0.00	3952.01
			07/26/16	326.60	—	0.00	3951.71
			03/06/19	327.33	—	0.00	3950.98
			05/02/19 ^d	327.67	—	0.00	3950.64
			05/20/19	327.44	—	0.00	3950.87
			08/13/19	327.81	—	0.00	3950.50
			09/17/19	327.74	—	0.00	3950.57
			06/08/20	328.11	—	0.00	3950.20
			09/09/20	328.45	—	0.00	3949.86
			12/27/20	328.52	—	0.00	3949.79
BW-10	306–346	4275.11	03/29/16	323.92	—	0.00	3951.19
			07/26/16	324.21	—	0.00	3950.90
			03/06/19	324.96	—	0.00	3950.15
			05/20/19	324.99	—	0.00	3950.12
			08/13/19	325.44	—	0.00	3949.67
			09/17/19	325.30	—	0.00	3949.81
			06/08/20	325.77	—	0.00	3949.34
			09/09/20	326.15	—	0.00	3948.96
			12/27/20	326.23	—	0.00	3948.88
MW-11	285.5–355.5	4274.64	08/13/19	325.81	—	0.00	3948.83
			09/18/19	325.85	—	0.00	3948.79
			06/08/20	326.24	—	0.00	3948.40
			09/09/20	326.68	—	0.00	3947.96
			12/27/20	326.70	—	0.00	3947.94
MW-12	287–357	4277.60	08/13/19	328.16	—	0.00	3949.44



**Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (ft msl)
MW-12 (cont.)	287–357 (cont.)	4277.60 (cont.)	09/20/19	328.14	—	0.00	3949.46
			06/08/20	328.60	—	0.00	3949.00
			09/09/20	328.93	—	0.00	3948.67
			12/27/20	329.05	—	0.00	3948.55
MW-13	287–357	4275.82	08/13/19	326.33	—	0.00	3949.49
			09/21/19	326.44	—	0.00	3949.38
			06/08/20	326.77	—	0.00	3949.05
			09/09/20	327.08	—	0.00	3948.74
			12/27/20	327.21	—	0.00	3948.61
MW-14	280.5–350.73	4265.25	09/19/19	318.03	—	0.00	3947.22
			06/08/20	318.52	—	0.00	3946.73
			09/09/20	319.02	—	0.00	3946.23
			12/27/20	319.21	—	0.00	3946.04
MW-15	282–352.3	4268.58	06/08/20	322.86	—	0.00	3945.72
			09/09/20	323.38	—	0.00	3945.20
			12/27/20	323.63	—	0.00	3944.95
MW-16	288.61–358.88	4276.23	06/08/20	328.75	—	0.00	3947.48
			09/09/20	329.14	—	0.00	3947.09
			12/27/20	329.27	—	0.00	3946.96
MW-17	289–359	4277.42	06/08/20	329.19	—	0.00	3948.23
			09/09/20	329.58	—	0.00	3947.84
			12/27/20	329.78	—	0.00	3947.64
RW-1	265–355	4280.00	08/13/19	328.89	—	0.00	3951.11
			09/19/19	328.84	—	0.00	3951.16
			06/08/20	329.22	—	0.00	3950.78



**Table 1. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation ^a (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (ft msl)
RW-1 (cont.)	265–355 (cont.)	4280.00 (cont.)	09/09/20	329.47	—	0.00	3950.53
			12/27/20	329.63	—	0.00	3950.37
RW-2	290–360	4279.70	08/13/19	329.00	—	0.00	3950.70
			09/18/19	328.97	—	0.00	3950.73
			06/08/20	329.28	—	0.00	3950.42
			09/09/20	329.58	—	0.00	3950.12
			12/27/20	329.77	—	0.00	3949.93
RW-3	289.27–364.52	4278.78	09/20/19	327.95	—	0.00	3950.83
			06/08/20	328.25	—	0.00	3950.53
			09/09/20	328.56	—	0.00	3950.22
			12/27/20	328.68	—	0.00	3950.10
RW-4	291.15–361.51	4278.84	09/19/19	328.48	—	0.00	3950.36
			06/08/20	328.85	—	0.00	3949.99
			09/09/20	329.18	—	0.00	3949.66
			12/27/20	329.27	—	0.00	3949.57

Note: Pre-2017 data reported by Brown Environmental, Inc. (BEI, 2016).

^a Surveyed by Lydick Engineers & Surveyors, October 2019 or June 2020. For consistency, historical groundwater elevations reference current survey data.

^b Groundwater elevation (GWE) corrected for LNAPL thickness using the following equation:
GWE = TOC Elevation - (DTW - [LNAPL thickness x 0.75]).

^c Well survey data reported by BEI following well installation.

^d Data reported by Brown Environmental, Inc. (BEI, 2019).

ft bgs = Feet below ground surface

ft msl = Feet above mean sea level

ft btoc = Feet below top of casing

DTW = Depth to water

LNAPL = Light nonaqueous-phase liquid

NA = Not measured or not available



**Table 2. Summary of LNAPL Recovery From Site Wells
Former Y Station State Lead Site, Clovis, New Mexico**

Date Bailed	Depth to Water ^a (ft btoc)	Depth to LNAPL (ft btoc)	Initial LNAPL Thickness (feet)	Depth to Water ^b (ft btoc)	Total Volume of Fluids Removed (gallons)	Volume of LNAPL Removed (gallons)	Cumulative Volume of LNAPL Removed (gallons)	Final Thickness of LNAPL (feet)
Cumulative volume of LNAPL recovered by DBS&A is approximately 3.7 gallons, as tabulated below.								
BW-5								
05/23/19	329.35	327.58	1.77	328.02	7.16	1.95	1.95	0.26
09/20/19	328.94	328.18	0.76	328.37	5.35	0.95	2.90	0.01
06/08/20	329.65	329.07	0.58	329.22	4.27	0.46	3.36	0.00
09/16/20	329.34	328.92	0.42	329.03	4.05	0.26	3.62	0.00
12/29/20	329.20	329.06	0.14	329.10	4.11	0.07	3.69	0.01

^a Depth to water (DTW) before correction for LNAPL thickness.

^b DTW corrected for LNAPL thickness using the equation $DTW = DTW - (LNAPL\ thickness \times 0.75)$.

LNAPL
ft btoc

= Nonaqueous-phase liquid
= Feet below top of casing



**Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-1	04/13/12	240	61	4.5	20	325.5	1.6	<1.0 ^b	3.5	<10
	09/25/12	290	29	4.9	34	357.9	<1.0	<1.0 ^b	5.2	<10
	09/25/12 ^c	200	46	7.8	45	298.8	<1.0	<1.0 ^b	6.2	<10
	04/30/14	50	6.0	<1.0	1.6	57.6	<1.0	<1.0 ^b	1.4	<10
	05/07/15	130	5.5	<1.0	5.6	141.1	1.1	<1.0 ^b	2.6	<10
	09/11/15	13	55	<1.0	<1.5	68	<1.0	<1.0 ^b	<1.0	<10
	03/30/16	40	130	<1.0	<1.5	170	<1.0	<1.0 ^b	1.3	<10
	07/27/16	18	15	<1.0	<1.5	33	1.2	<1.0 ^b	1.9	<10
	07/10/18	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 ^b	<1.0	<10
	07/10/18 ^c	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 ^b	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	02/15/19 ^c	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	05/03/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	05/03/19 ^c	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	05/22/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10	
06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10	
BW-2	09/25/12	21	15	<1.0	6.2	42.2	<1.0	<1.0 ^b	1.0	<10
	04/29/14	<1.0	5.6	<1.0	<1.5	5.6	<1.0	<1.0 ^b	<1.0	<10
	05/07/15	<1.0	18	<1.0	<1.5	18	<1.0	<1.0 ^b	<1.0	<10
	09/10/15	7.2	21	<1.0	<1.5	28.2	<1.0	<1.0 ^b	<1.0	<10
	03/29/16	<1.0	97	<1.0	<1.5	97	<1.0	<1.0 ^b	<1.0	<10
	07/26/16	<1.0	2.5	<1.0	<1.5	2.5	<1.0	<1.0 ^b	<1.0	<10
	07/10/18	<1.0	1.7	<1.0	<1.5	1.7	<1.0	<1.0 ^b	<1.0	<10
	02/14/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10



**Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-2 (cont.)	05/02/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 ^d	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
BW-3	09/25/12	1.4	56	<1.0	6.1	63.5	<1.0	<1.0 ^b	<1.0	<10
	04/29/14	<1.0	14	<1.0	<1.5	14	<1.0	<1.0 ^b	<1.0	<10
	05/07/15	2.6	5.0	<1.0	3.5	11.1	<1.0	<1.0 ^b	<1.0	<10
	09/10/15	<1.0	46	<1.0	<1.5	46	<1.0	<1.0 ^b	<1.0	<10
	03/29/16	<1.0	180	<1.0	2.2	182.2	<1.0	<1.0 ^b	<1.0	<10
	07/26/16	<1.0	4.0	<1.0	<1.5	4.0	<1.0	<1.0 ^b	<1.0	<10
	07/10/18	<1.0	4.3	<1.0	<1.5	4.3	<1.0	<1.0 ^b	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	05/03/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	06/09/20	<1.0	1.2	<1.0	<1.5	1.2	<1.0	<0.0094 ^d	<1.0	<10
BW-4	04/30/14	<1.0	11	<1.0	<1.5	11	<1.0	<1.0 ^b	1.8	<10
	05/07/15	1,100	1,100	61	600	2,861	<1.0	<1.0 ^b	32	<10
	09/10/15	1.9	43	<1.0	<1.5	44.9	<1.0	<1.0 ^b	<1.0	<10
	03/30/16	200	200	5.1	33	438.1	<1.0	<1.0 ^b	6.9	<10
	07/27/16	140	85	1.2	15	241.2	<1.0	<1.0 ^b	6.9	<10
	05/22/19	1.8	<1.0	<1.0	<1.5	1.8	<1.0	<0.0094 ^d	2.1	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 ^d	<1.0	<10
	06/10/20	2.2	<1.0	<1.0	<1.5	2.2	<1.0	<0.0093 ^d	5.0	<10
09/11/20	1.6	<1.0	<1.0	<1.5	1.6	<1.0	<0.0094 ^d	3.3	<10	



**Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-4 (cont.)	12/28/20 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	1.1	<10
BW-5	04/29/14	2,100	1,800	200	990	5,090	<1.0	29	100	59.9
	05/08/15	3,700	2,800	300	1,700	8,500	<5.0	51	180	83
	09/11/15	2,000	1,400	220	900	4,520	<5.0	18	100	80
	09/11/15 ^c	1,900	1,300	230	960	4,390	<5.0	20	100	64
	03/30/16	5,000	4,200	500	2,000	11,700	<5.0	54	230	<500 ^b
	07/28/16	2,000	2,400	270	1,300	5,970	<10	29	110	141
	05/20/19 through 12/27/20	Well not sampled due to presence of LNAPL								
BW-6	04/29/14	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 ^b	<1.0	<10
	05/07/15	<1.0	8.4	<1.0	<1.5	8.4	<1.0	<1.0 ^b	<1.0	<10
	09/10/15	<1.0	36	<1.0	<1.5	36	<1.0	<1.0 ^b	<1.0	<10
	03/29/16	<1.0	130	<1.0	<1.5	130	<1.0	<1.0 ^b	<1.0	<10
	07/26/16	<1.0	3.8	<1.0	<1.5	3.8	<1.0	<1.0 ^b	<1.0	<10
	07/11/18	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 ^b	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	05/02/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10	
BW-7	04/30/14	990	3.4	67	260	1,320	<1.0	2.6	75	21.1
	04/30/14 ^c	1,100	4.4	74	300	1,478	<1.0	2.9	75	20.1
	05/08/15	3,200	1,200	210	920	5,530	<1.0	9.6	230	45.5
	09/11/15	9,400	5,000	750	2,600	17,750	<1.0	36	590	204



**Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-7 (cont.)	03/31/16	8,800	2,900	650	2,100	14,450	<1.0	<50 ^b	580	120
	07/28/16	8,000	1,100	630	1,200	10,930	<50	<50 ^b	500	120
	05/22/19	1,400	140	100	230	1,870	<5.0	0.24	180	22
	09/18/19	590	5.3	56	88	739.3	<2.0	0.31 ^d	120	15
	06/12/20	240	<2.0	<2.0	<3.0	240	<2.0	0.86 ^d	65	<20
	09/14/20	48	<1.0	1.4	<1.5	49.4	<1.0	0.86 ^d	78	<10
	12/28/20 ^e	790	<2.0	<2.0	3.1	793.1	<2.0	0.015 ^d	370	<20
BW-7R	09/21/19	51	9.4	1.5	9.2	71.1	<1.0	0.096 ^d	22	<10
	06/11/20	160	2.5	7.1	13	182.6	<1.0	0.36 ^d	50	4.1
	09/12/20	130	<2.0	4.3	5.6	139.9	<2.0	0.17 ^d	60	<20
	12/28/20	130	1.5	3.2	2.1	136.8	<1.0	0.29 ^d	71	2.9
	12/28/20 ^e	610	3.6	11	2.5	627.1	<1.0	0.044 ^d	88	6.7
BW-8	03/31/16	3,900	5,400	440	2,400	12,140	<1.0	95	210	<500 ^b
	03/31/16 ^c	4,300	5,900	500	2,700	13,400	<1.0	110	230	100
	07/28/16	3,600	4,800	380	2,500	11,280	<50	100	180	120
	07/28/16 ^c	3,400	4,700	380	2,500	10,980	<50	100	180	120
	05/30/19	4,600	4,200	390	1,200	10,390	<5.0	9.1 ^d	290	67
	09/18/19	5,000	4,300	420	1,400	11,120	<10	14 ^d	270	94
	06/13/20	7,000	7,900	700	2,500	18,100	<20	0.72 ^d	190	180
	09/15/20	4,800	7,500	590	2,600	15,490	<50	0.092 ^d	95	130
	12/29/20	4,100	5,600	450	1,800	11,950	<5.0	0.11 ^d	90	146
12/29/20 ^e	15,000	24,000	1,400	7,400	47,800	<20	0.20 ^d	77	413	
BW-8 (Deep HS)	06/13/20	7,000	8,400	570	2,400	18,370	<10	0.26 ^d	<10 ^b	120
	09/15/20	14,000	28,000	1,600	10,000	53,600	<50	0.70 ^d	<50 ^b	370
BW-8 (Shallow HS)	06/13/20	6,300	8,500	670	2,600	18,070	<20	0.25 ^d	<20 ^b	130



**Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-8 (Shallow HS) (cont.)	09/15/20	12,000	24,000	1,500	9,600	47,100	<50	0.88^d	63	370
	12/29/20	17,000	31,000	2,000	11,000	61,000	<20	0.19^d	76	570
BW-9	03/30/16	<1.0	190	<1.0	<1.5	190	<1.0	<1.0 ^b	<1.0	<10
	07/27/16	<1.0	6.1	<1.0	<1.5	6.1	<1.0	<1.0 ^b	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	09/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	12/27/20 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
BW-10	03/29/16	<1.0	280	<1.0	<1.5	280	<1.0	<1.0 ^b	<1.0	<10
	07/27/16	<1.0	33	<1.0	<1.5	33	<1.0	<1.0 ^b	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	09/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	12/27/20 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
MW-11	09/18/19	3,300	5.0	280	1,100	4,685	<5.0	5.0^d	130	40
	06/13/20	3,400	8.9	300	620	4,328.9	<10	2.9^d	150	39
	09/15/20	3,300	14	300	520	4,134	<20	1.2^d	130	40
	12/29/20	3,400	5.1	280	450	4,135.1	<1.0	0.93^d	120	84
	12/29/20 ^e	4,400	2.8	310	46	4,758.8	<1.0	0.30^d	180	87
MW-11 (Deep HS)	06/13/20	4,200	<10	370	150	4,720	<10	2.1^d	190	50
	09/15/20	3,100	<20	170	83	3,353	<20	0.71^d	150	36
MW-11 (Shallow HS)	06/13/20	3,900	<10	250	86	4,236	<10	1.4^d	190	28
	09/15/20	3,300	<20	230	100	3,630	<20	0.74^d	140	34



**Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
MW-11 (Shallow HS)	12/29/20	3,300	2.9	150	24	3,476.9	<1.0	0.11^d	160	45.1
MW-12	09/20/19	1,400	27	9.4	200	1,636.4	<1.0	0.78^d	72	6.0
	06/12/20	1,400	<10	10	130	1,540	<10	0.50^d	85	<100 ^b
	09/15/20	930	<5.0	<5.0	78	1,008	<5.0	0.38^d	68	<50 ^b
	12/28/20 ^e	460	<2.0	<2.0	11	471	<2.0	0.21^d	68	<20
MW-13	09/21/19	97	6.4	9.2	29	141.6	<1.0	0.037 ^d	5.1	<10
	06/12/20	79	<2.0	4.4	13	96.4	<2.0	0.035 ^d	6.6	<20
	09/12/20	94	<1.0	7.5	23	124.5	<1.0	0.039 ^d	11	<10
	12/28/20 ^e	22	<1.0	2.6	2.5	27.1	<1.0	0.079^d	26	<10
MW-14	09/19/19	4.0	15	2.8	15	36.8	<1.0	0.050^d	<1.0	<10
	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	09/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 ^d	<1.0	<10
	12/27/20 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
MW-14 (Deep HS)	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	09/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
MW-14 (Shallow HS)	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	09/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
MW-15	06/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	09/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	12/27/20 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 ^d	<1.0	<10
MW-16	06/11/20	520	8.7	42	140	710.7	<1.0	0.82^d	35	3.2
	09/11/20	920	11	34	300	1,265	<2.0	0.66^d	55	7.5
	12/28/20	1,500	7.3	49	380	1,936.3	<1.0	0.52^d	70	18.1
	12/28/20 ^e	55	<1.0	2.7	29	86.7	<1.0	0.25^d	30	<10
MW-17	06/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10



**Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico**

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
MW-17 (cont.)	09/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	12/27/20 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
RW-1	09/19/19	720	800	47	430	1,997	<1.0	6.4^d	36	10
	06/13/20	340	39	18	51	448	<5.0	0.22^d	<5.0 ^b	10
	09/15/20	650	230	49	120	1,049	<2.0	1.7^d	22	14
	12/28/20 ^e	5,500	3,300	260	2,000	11,060	<1.0	5.1^d	31	161
RW-2	09/18/19	3,500	3,300	210	1,600	8,610	<10	74^d	220	58
	06/14/20	1,800	1,100	130	470	3,500	<20	4.8^d	<20 ^b	<200 ^b
	09/15/20	2,500	2,600	180	800	6,080	<10	2.6^d	25	41
	12/27/20 ^e	7,400	6,200	380	1,800	15,780	<1.0	31^d	64	133
RW-3	09/20/19	4,100	5,100	310	2,300	11,810	<10	25^d	130	58
	06/13/20	3,800	2,300	290	2,100	8,490	<20	49^d	180	76
	09/16/20	4,000	2,900	280	1,900	9,080	<20	33^d	190	68
	12/28/20	3,000	2,500	200	1,200	6,900	<1.0	14^d	94	90
	12/28/20 ^e	2,000	530	89	690	3,309	<2.0	20^d	84	24
RW-4	09/19/19	690	730	47	340	1,807	<1.0	5.2^d	28	5.4
	06/12/20	1,500	410	110	360	2,380	<5.0	13^d	100	20
	09/12/20	1,400	600	92	300	2,392	<10	9.7^d	91	<100 ^b
	12/28/20	1,900	1,400	160	650	4,110	<10	8.8^d	33	27
	12/28/20 ^e	3,400	1,100	220	760	5,480	<10	10^d	56	35

Footnotes and acronym definitions are provided on the next page.



**Table 3. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico**

Bold indicates values that are equal to or exceed applicable standards.

Pre-May 2, 2019 data reported by Brown Environmental, Inc. (BEI, 2016).

^a Samples analyzed in accordance with EPA method 8260B, unless otherwise noted.

^b Laboratory reporting limit is equal or greater than the NMWQCC standard.

^c Duplicate sample

^d Samples analyzed in accordance with EPA method 504.1.

^e Sample collected using HydraSleeve sampling device.

µg/L = Micrograms per liter

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

NMWQCC = New Mexico Water Quality Control Commission

LNAPL = Light nonaqueous-phase liquid

HS = HydraSleeve sampling device

Appendix A
Sampling Protocol



Appendix A. Sampling Protocol

A.1 Fluid Level and Parameter Measurements

Prior to collection of groundwater samples, a Solinst interface probe or equivalent device will be used to determine depths to water and nonaqueous-phase liquid (NAPL), if present. Water level data will be used to construct a site potentiometric surface map. A YSI 556 Multi-Probe System (MPS) water quality meter or equivalent device will be used to measure specific conductivity, pH, temperature, dissolved oxygen (DO), and oxidation/reduction potential (ORP). Field parameters will be measured at intervals of no less than once per casing volume during purging of a well for sampling. The interface probe will be decontaminated before each measurement using a solution of deionized water and Liquinox (or equivalent) soap.

A.2 Groundwater Monitor Well Sampling

DBS&A will attempt to sample wells from the least contaminated to the most contaminated well using data from the previous sampling event. After collecting fluid levels and prior to sampling, each well will be purged. To ensure a fresh flow of groundwater into the well bore, a minimum of three casing volumes will be removed from each well. If a well is purged dry, it will be sampled when the well has recharged. Wells will be purged and sampled using a trailer-mounted Bennett pump in accordance with DBS&A standard operating procedures (SOPs). Water will be disposed on the ground within the site boundaries, preferably on an impervious surface and near the well of origin. Purge water must not contain NAPL, must not endanger public health or safety, and must not enter a surface water body or tributary, including an arroyo. Any purged fluids containing NAPL will be containerized for future disposal at a licensed facility.

Samples analyzed for volatile organic analytes (VOAs) will be collected in 40-milliliter (mL) glass bottles containing the appropriate preservative and capped with Teflon septa caps. VOA containers will be filled in a manner that prevents headspace in the vials. Samples analyzed for dissolved iron, lead, and manganese will be field-filtered with 0.45-micron disposable filters, collected in 250-mL plastic containers, and preserved with nitric acid to a pH of less than 2. Samples analyzed for nitrate and sulfate will be collected in 500-mL plastic containers containing no preservative.



Daniel B. Stephens & Associates, Inc.

Immediately after collection, the sample containers will be labeled and placed on ice in an insulated cooler for delivery to the laboratory for analyses. Groundwater samples will be accompanied by full chain of custody documentation at all times.

Appendix B
Field Notes



GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station Sampler: V. Morgan
 Project #: DB18.1157.00 Sample Date: 12-27-20
 Project Manager: T. Golden Sheet # 1 of 2

12-27-20

Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments: (well dia., sampled, condition)
BW-1	—	329.27		0742
BW-2	—	329.75		0733
BW-3	—	328.87		0725
BW-6	—	330.07		0747
MW-12	—	329.05	362.00	0757 Hydrostatic only
MW-11	—	329.78	363.70	0841 "
MW-15	—	323.63	360.00	0912 "
MW-14	—	319.21	360	0955 " @ 10:00 MW-14 HS
RW-2	—	329.77	365	1040 "
BW-4	—	329.42	349.4	11:20 "
BW-9	—	328.52	347.6	11:41 "
RW-1	—	329.63	360	12:18 "
BW-10	—	326.23	351.2	12:57 "
MW-13	—	327.21	360	13:22 "
BW-7	—	328.22	332.70	13:57 "

Comments:



Daniel B. Stephens & Associates, Inc.

GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station Sampler: V. Morgan
 Project #: NB18, 4157, 00 Sample Date: 12-27-20
 Project Manager: T. Golden Sheet # 2 of 2

12-27-20

Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments: (well dia., sampled, condition)
MW-66	—	329.27	363.20	14:23 ^{145'} BP
BW-TR	—	328.19	360.95	14:52 "
MW-11	—	326.70	360.50	16:00 "
RW-4	—	329.27	360	16:12 "
RW-3	—	328.68	360	16:55 "
BW-5	^{145'} 329.06	329 329.20	—	17:20 0.14' NAPL
BW-8	—	328.89	351.80	17:38 ^{145'} BP

Comments:



NAPL RECOVERY DATA SHEET

Project Name: Fernes Y Station Sampler: Y. Morgan
 Project #: DB18.1157.00 Date: 12-27-20 - gauge 12-29-20 recover
 Project Manager: T. Golden Time: A
 Well #: BW-5 Well Diameter: 5 (inches)
 Initial Depth to NAPL: 329.06 (feet btoc) Bailer Diameter: 1.5" / 3.0" (inches)
 Initial Depth to Water: 329.20 (feet btoc) Start Time: 1446
 Initial NAPL Thickness: 0.14 (feet) End Time: _____
 Note: baild mostly w/ 1.5" before remembering 3.0" was in track
 Bailer volume (SCH 40-PVC): 1.5" ID bailer = 0.09 gal/ft; 3.0" = 0.37 gal/ft 3.0"

1.5"

Bailer #	NAPL Thickness in Bailer (feet)	Water Thickness in Bailer (feet)	Remarks / Time
1	0	3.0	1548
2	0.03	1.5	1500
3	0.03	1.3	1504
4	0.08	1.5	1507 banded
5	0.04	1.5	1509 banded
6	0.03	2.8	1512
7	0.03	2.0	1515
8	0.03	1.7	1518 banded
9	0.03	1.5	1520
10	0.03	1.8	1524
11	0.33	18.6	
12			
13			
14			
15			

Bailer #	NAPL Thickness in Bailer (feet)	Water Thickness in Bailer (feet)	Remarks / Time
16	0.04	1.2	1527 banded
17	0.02	1.1	1532
18	0.01	1.0	1533
19	0.01	1.0	1537
20	0.01	0.6	1541
21	0.0	0.8	1544
22	0.01	0.7	1547
23			
24	0.10	7.4	
25		6.4	
26			
27			
28			
29			
30			

Totals: $0.33 \times 0.09 = 0.03$
 $0.1 \times 0.37 = 0.04$
 NAPL Thickness: _____ (feet)
 Volume of NAPL: 0.07 (gal)
 Final Depth to Water: _____ (feet btoc)
 Water Thickness: $18.6 \times 0.09 = 1.67$
 $6.4 \times 0.37 = 2.37$
 Volume of Water: 4.04 (gal)
 Final Depth to NAPL: _____ (feet btoc)

BW-7 Groundwater Sampling Data Sheet

Well identification BW-7		Date: 12-27-20/12-28-20
Sample identification BW-7 H3		Sample time: 0930 12-28-20
Project: Former Y Station Remedial Action		Project # DB18.1157.00
Field personnel: V. Morgan		Field book #:
Casing diameter/type: 5" SCH 80 PVC		Initial DTW @ T ₀ : 330.82 TD=332.7
Water Level Indicator: Non DPRT	Water quality meter: YSI Pro Plus	
Purge Volume (3CV): Water Column = 4.48 $\times 1.02$ gallons/foot = <u> </u> gal $\times 3$ CV = <u> </u> gallons		
Equip Type: Hydraserve 2.9" x 12"		
Pump placement (feet bgs): 1405 ↓		
Pump Start time: Placed on bottom ~ 332.7		Pump Stop time: Letter = 338 sitting on bottom

Sleeve supposed to have minimum 5' water column

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0930	0.50	✓	15.1	7.14	867	1.41	23.9

12-28-20

1357
1019 = 338

BW-7R Groundwater Sampling Data Sheet

Well identification	BW-7R	Date:	12-27-20 / 12-28-20
Sample identification	BW-7R ^{BP} BW-7R HS	Sample time:	14:01 } ⁶ VOA 11:57 } ⁵ VOA
Project:	Former Y Station Remedial Action	Project #	DB18.1157.00
Field personnel:	V. Morgan	Field book #:	
Casing diameter/type:	5" SCH 80 PVC	Initial DTW @ TOC:	398.19 TD: 360.95
Water Level Indicator:	Heron Diller T	Water quality meter:	VSI Pro Plus
Purge Volume (3CV) : Water Column = $\frac{32.76}{3 \times 3 \text{ CV}} \times 1.02 \text{ gallons/foot} = 33.42 \text{ gal}$ x 3 CV = 100.25 gallons			
Equip Type:	Remitt pump & Hydrastave 2.9" x 12"		
Pump placement (feet bgs):	334		
	screen placement: 344.57		
Pump Start time:	12:28 1928	Pump Stop time:	Te Her = 344'
	HS deployment time 15:05		

BW-7RHS

BP

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
11:57	0.5	-	15.8	7.16	1041	1.33	-63.5
		5 VOA					
12:30	2.0	~1.0	9.9	7.14	1038	4.92	-48.6
12:48	20.0	~1.0	17.6	7.12	1087	3.56	-98.5
13:06	40.0	~1.1	17.7	7.13	1095	3.80	-84.2
13:25	61.0	~1.1	17.6	7.12	1098	3.42	-72.0
13:43	81	~1.1	17.6	7.13	1093	3.59	-62.8
13:11:01	101	~1.1	17.6	7.14	1075	3.41	-62.6
		6 VOA			1083		

12-28-20

12-28-20

13:38 Field Blank Collected - 3 VOA

1706

BW-8 Groundwater Sampling Data Sheet

Well identification BW-8	Date: 12-27-20
Sample identification BW-8 BP, BW-8 Shallow HS, BW-8 Center HS	Sample time: BP-1330, Shallow HS-0812, Center HS-1230
Project: Former Y Station Remedial Action	Project # DB18.1157.00
Field personnel: V. Morgan	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 328.89 TD=35180
Water Level Indicator: Solinst Interface Probe	Water quality meter: VSI Proflus
Purge Volume (3CV): Water Column = 22.91 x 0.653 gallons/foot = 14.96 gal x 3 CV = 44.88 gallons	
Equip Type: Hydrosleeves - 2, Barrett Pump 503	
Pump placement (feet bgs): Center HS - 340.35, Shallow HS - 5' Below WS in Sept 2020	
Pump Start time: 1249, Deploy Center HS 0825	Pump Stop time:

Shallow HS
Center HS

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0812	< 0.5	—	12.7	7.01	1689	3.84	-161.0
Black particles in GW + on rock + s bere - especially near top (opening)							
1230	0.5	—	19.6	6.91	1652	0.47	-239.0
1250	1.0	1.1	18.2	6.95	1543	2.62	-205.9
1259	10.0	1.1	18.5	6.96	1466	3.40	-205.1
1310	22.0	1.1	18.6	7.03	1330	3.07	-193.6
1320	32.0	1.1	18.5	7.05	1316	3.36	-186.7
1330	45.0	1.1	18.5	7.07	1270	3.42	-177.7

1365
1050
315

1222
35
1247

BW-9 Groundwater Sampling Data Sheet

Well identification BW-9	Date: 12-27-20
Sample identification BW-9 HS	Sample time: 1642 5:01A
Project: Former Y Station Remedial Action	Project # DB18.1157.00
Field personnel: V. Morgan	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 328.52 TD = 347.6
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 19.08 x 0.050 gallons/foot = gal x 3 CV = gallons	
Equip Type: Hydrosbere 2.9" x 12"	
Pump placement (feet bgs): 338.06	
Pump Start time: placement 12:04	Pump Stop time: Teller 337.5

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1642	0.5	-	16.6	7.48	822	4.50	162.7

2065.5
1787.5

BW-10 Groundwater Sampling Data Sheet

Well identification BW-10	Date: 12-27-20
Sample identification BW-10 HS	Sample time: 1833
Project: Former Y Station Remedial Action	Project # DB18.1157.00
Field personnel: V. Morgan	Field book #:
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 306.23 TD = 351.2
Water Level Indicator: Heron Differ T	Water quality meter: YSI Pro Plus
Purge Volume (3CV): Water Column = <u>24.97</u> x 0.663 gallons/foot = _____ gal x 3 CV = _____ gallons.	
Equip Type: Hydrablock 2.9" x 12"	
Pump placement (feet bgs): 338.72	
Pump Start time: 13:08	Pump Stop time: 16:00 = 338.2

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1833	0.50	—	14.3	7.3 7.15	1129	4.14	27.1

MW-11 Groundwater Sampling Data Sheet

Well identification MW-11	Date: 12-29-20
Sample identification MW-11 BP, MW-11 Shallow HS MW-11 Center HS	Sample time: Shallow HS 0722 Center HS - 0905 1005 BP - 1158
Project: Former Y Station Remedial Action	Project # DB18.1157.00
Field personnel: V. Morgan	Field book #:
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 326.70 TD = 360.50
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV): Water Column = 33.80 x 1.02 gallons/foot = 34.48 gal Shallow CV = 103.43 gallons	
Equip Type: Hydro-stere upper 5" → Bennett Pump Hydro-stere middle placed today	Placed in Sept. 2020
Pump placement (feet bgs): 330 Center HS = 343.6 Shallow HS = ~321 (5' below WLS in Sept 2020)	
Pump Start time: 1005 center HS placement time - 0755	Pump Stop time: 1159

obstruction (plastic?) in well blocked first attempt a Center HS. Retrieved w/ 4X weights. Left 20 minutes in well

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
Shallow HS 0722	0.05	Not enough			Sample for GW parameters blocked		
Center HS 1005	Plastic obstruction (?) Flaking on GW - compromised sample (?)						
0905	0.5	—	15.6	7.69	821	1.10	-132.4
	Collected after 20 min equilibration						
1026	1.0	1.1	10.3	7.53	805	4.08	-136.3
1044	21.0	1.1	16.7	7.51	777	3.71	-151.3
1102	42.0	1.1	17.4	7.51	787	3.87	-147.6
1121	63	1.1	18.2	7.46	790	3.60	-143.3
1140	84	1.1	18.2	7.46	793	3.68	-142.0
1158	104	1.1	18.3	7.47	790	3.97	-139.9

Shallow HS
Center HS

1719
1391
328

1391
15.6
1406.6

1385
-15.6
1369.4

MW-13 Groundwater Sampling Data Sheet

Well identification	MW-13	Date:	12-27-20 + 12-28
Sample identification	MW-13 H5	Sample time:	0824 12-28-20
Project:	Former Y Station Remedial Action	Project #	DB18.1157.00
Field personnel:	V. Morgan	Field book #:	
Casing diameter/type:	5" SCH 80 PVC	Initial DTW @ TOC:	327.21 TD-360'
Water Level Indicator:	Iron Dipper	Water quality meter:	YSI Pro Plus
Purge Volume (3CV):	Water Column = 32.79 x 1.02 gallons/foot = _____ gal x 3 CV = _____ gallons		
Equip Type:	Hydres bore 2.9" x 12"		
Pump placement (feet bgs):	343.61		
Pump Start time:	1334	Pump Stop time:	Total = 343

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
12-28 0824	0.5	—	15.2	7.31	795	1.69	89.2

MW-16

Groundwater Sampling Data Sheet

Well identification: MW-16 MW-16	Date: 12-27-20 / 12-28-20
Sample identification: MW-16 MW-16 BP MW-16 HS	Sample time: BP: 18:55 } 5:00A HS: 17:00 } 12-28-20
Project: Former Y Station Remedial Action	Project # DB18.1157.00
Field personnel: Y. Pagan	Field book #:
Casing diameter/type: SCH 90 PVC 5"	Initial DTW @ TOC: 329.27 TD: 363.20
Water Level Indicator: Heron Dwyer T	Water quality meter: YSI Pro Plus
Purge Volume (3CV): Water Column = 339.3 x 3 CV = 103.83 gallons	x 0.653 gallons/foot = 34.61 gal x 1.00 gallons
Equip Type: Hydrosleeve & Bennett Pump	
Pump placement (feet bgs): 335 sleeve placement (ft BGS): 346.24	
Pump Start time: 17:23 sleeve placement time: 14:35	Pump Stop time: 18:56 teller = 345.7

Hydrosleeve & Bennett pump = 2 samples
→ deployed in advance to allow equilibration

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
17:00	0.50	—	15.0	7.73	569	0.49	-105.5
17:24	1.0	1.1	8.8	7.46	549	4.61	-43.0
17:42	21	1.1	16.0	7.37	584	4.12	-49.9
18:00	42	1.1	16.6	7.44	605	4.16	-62.9
18:19	63	1.1	15.8	7.47	599	4.85	-65.4
18:37	84	1.1	16.5	7.48	593	4.94	-62.6
18:55	104	1.1	16.5	7.48	582	4.99	-57.2

12/28/20
BP

RW-1 Groundwater Sampling Data Sheet

Well identification RW-1		Date: 12-28-20 + 12-28-20
Sample identification RW-1 H5		Sample time: 10:11 12-28-20
Project: Former Y Station Remedial Action		Project # DB18.1157.00
Field personnel: V. Morgan		Field book #:
Casing diameter/type: 4" SCH 80 PVC		Initial DTW @ TOC: 329.63 TD=360'
Water Level Indicator: Solinst interface probe	Water quality meter: YSI pro plus	
Purge Volume (3CV): Water Column = 30.37 x 0.653 gallons/foot = gal x 3 CV = gallons		
Equip Type: Hydrasleeve 29" x 12"		
Pump placement (feet bgs): 344.82		
Pump Start time: 10:38 <i>Placement</i>		Pump Stop time: 10:40 344.2'

12-28-20

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
10:11	0.50	—	17.4	7.04	972	1.77	-162.3
	Emulsified product, strong odor, yellow tetter						

RW-3 Groundwater Sampling Data Sheet

Well identification RW-3		Date: 12-27-20 / 12-28-20
Sample identification RW-3 HS RW-3 BP		Sample time: HS - 19:25 75 roA BP - 20:39 562820
Project: Former Y Station Remedial Action		Project # DB18.1157.00
Field personnel: V. Morgan		Field book #:
Casing diameter/type: 4" SCH 80 PVC		Initial DTW @ TOC: 328.68 TD=360
Water Level Indicator: 501734 1" mercuric probe	Water quality meter: VSZ pro Plus	
Purge Volume (3CV) : Water Column = 31.30 x 0.653 gallons/foot = 20.45 gal x 3 CV = 61.36 gallons		
Equip Type: Hydrastore 2.9" x 12" Bennett Pump		
Pump placement (feet bgs): 344.34 HS placement of pump - 334'		Pump stop time: Letter length - 343.7
Pump Start time: HS deploy = 1712 10/27 pump start time: 1942 12/28		Pump Stop time:

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
19:25	0.50	—	15.5	7.8	947	0.57	-161.2
19:43	1.0	1.1	8.3	7.27	922	4.72	-153.4
19:57	16	1.1	16.2	7.06	885	4.25	-172.7
20:11	31	1.1	16.4	7.10	855	4.26	-168.6
20:25	47	1.1	16.8	7.09	948	4.07	-165.0
20:39	62	1.1	16.7	7.10	943	3.97	-161.2

12-28-20
HS
BP

RW-4 Groundwater Sampling Data Sheet

Well identification	RW-4	Date:	12-27-20 / 12-28-20
Sample identification	RW-4 HS RW-4 BP	Sample time:	HS 14:26 } 12-28-20 BP 15:48 } 5 volts
Project:	Former Y Station Remedial Action	Project #	DB18.1157.00
Field personnel:	V. Morgan	Field book #:	
Casing diameter/type:	4" SCH 80 PVC	Initial DTW @ TOC:	329.27 TB = 360'
Water Level Indicator:	Solinst interface probe	Water quality meter:	
Purge Volume (3CV):	Water Column = 30.73 x 3 CV = 60.2		x 0.653 gallons/foot = 20.07 gal gallons
Equip. Type:	Hydrastave 2.9" x 12" Barnett pump		
Pump placement (feet bgs):	335 stave placement (ft bgs): 344.64		
Pump Start time:	14:52 stave deploy time: 16:25	Pump Stop time:	15:49 Total: 344

HS
BP

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
14:26	0.50	—	14.2	7.26	995	1.16	-251.6
		5 volts	Emulsified product, Petr. odor				
14:53	1.0	1.1	14.0	7.22	963	2.91	-223.2
15:02	10.0	1.1	16.5	7.22	961	2.42	-225.3
15:11	20	1.1	12.6	7.21	963	2.48	-229.4
15:20	30	1.1	17.6	7.20	962	2.79	-219.6
15:29	40	1.1	12.6	7.21	941	2.06	-219.9
15:39	51	1.1	17.4	7.26	910	2.90	-209.6
15:48	61	1.1	17.5	7.27	884	3.39	-183.1
			Dark gray, strong petroleum odor				

Fornet Y Station
V. Morgan

12-26-20

- Load gear & sample kit etc in silver city
- To ABO Lab. Fill water tank on trailer, load trailer & gear
- Move to Clovis hotel
- Prep paperwork:
10 hrs total

Fornet Y Station

12-27-20

V. Morgan

Hwy 61st, Low 33rd

Mostly sunny, 10-15 mph wind

- 0600 - Calibrate pH Meter @ hotel
- 0700 - Ice onsite / Tailgate safety
- 0715 - Start Gauging all wells
- 0807 - set Hydrosleeve @ MW-12
Before starts busy
- 0902 - set Hydrosleeve @ MW-17
- 0935 - Place Hydrosleeve @ MW-15
- 1000 collect MW-14^H From upper Hydrosleeve. Disposed of sample from lower sleeve. Left left & clips in well for future use.
- 11:00 place sleeve @ RW-2
- 11:28 Deploy sleeve @ BW-4
- 12:04 " " @ BW-9
- 12:38 " " @ RW-1
- 13:08 " " @ BW-10
- 13:34 " " @ MW-13
- 14:05 " " @ BW-7
set on bottom due to shallow WC.
- 14:35 Deploy H. Sleeve @ RW-16
- 15:05 " " @ BW-7R

Foster V Station

12-27-20
(cont.)

V. Morgan

- 1520 - collect MW-17 HS - 5VOA
- ~~1605~~ 1544 - collect MW-15 HS - 5VOA
- 1625 - Deploy H. Speer e RW-4
- 1642 - collect BW-9 HS 5VOA
- 1712 - Deploy HS e RW-3
- 1753 - collect RW-2 HS 5VOA
- out of sequence because business is closed on Sundays.
- 1833 - collect BW-10 HS
- 1900 - leave site

~~Y. Morgan~~

Foster V Station

12-27-20

V. Morgan

- Low 28° High 49°, Mostly Cloudy
5-10 mph wind
- 0700 Arrive on site, Tailgate Safety
 - Calibrate pH meter
 - 0730 - collect MW-12 HS - 5VOA
 - 0824 - collect MW-13 HS - 5VOA
 - 0930 - " BW-7 HS - 5VOA
 - 1011 - " RW-1 HS 5VOA
 - 1037 - " BW-4 HS 5VOA
 - To CESCO for N cylinders - All HS-only wells complete
 - #6/mo to Tank cylinder
 - 1157 collect BW-7K HS 5VOA
 - 1401 collect BW-7R BP 6VOA
 - 1338 collect "Field Blank" - 3VOA
 - Lab did provide Trip Blank as requested
 - 1426 → collect RW-4 HS 5VOA
 - 1548 collect RW-4 BP 5VOA
 - 1620 to CESCO for 2 more cylinders
 - 1700 MW-16 HS collected - 5VOA
 - 1855 collect MW-16 BP - 5VOA
 - MW-16 sampled out of preferred order because Albertson's requested PM sampling.

Fomer Y Station

12-28-20

(Cont.)

1925 - Collect RW-3 ITS SVOA

2031 - Collect RW-3 BP SVOA

- Decor^e well
- purge water from tubing to avoid freezing overnight
- 2135 - Leave site

Joe Meyer

Plu 6 cylinders today
used 5 " "

Fomer Y Station. V. Bergen 12-29-20

Lo 28 High 57, cloudy, very foggy

in a.m., Lt rain a.m.

- 0645 check out of hotel
- Ice, Calibrate meter
- 0727 Collect MW-11 Shallow HS
- 0755 Deploy MW-11 Center HS
- 0812 Collect BW-8 Shallow HS
- 0825 Deploy BW-8 center HS
- 0836 Leave to Cesco for 3 more N cylinders
- 925 Center HS & MW-11 has no water. Recall plastic from nearby recycle bin blew into well possibly in past event. Re-deploy Center HS w/ 4 weights on it. wait 20 mins for equilibration - collect sample - seems like quality sample
- 1005 - Collect MW-11 Center HS SVOA
- 1158 - Collect MW-11 BP SVOA
- 1230 - Collect BW-8 Center HS SVOA
- 1330 - Collect BW-8 BP SVOA
- Initial decor of Bennett Pump & tubing inside/out w/ heavy Soap & Potable water

Former Y Station V. Morgan 12-29-20
(Cont.)

- Chains of custody
- Pack cooler - 26 samples (incl. blank)
- To UPS store - overnight cooler to HEAL
- 1445 return to site
- 1530 Finish NAPL bail down on BW-5
- Use N cylinder to clear ^{very} soapy water from inside tubing after > 2 hours of soaking.
- Remove cap from pump & soak in soapy water
- Stow gear - Trash to dumpster
- 1630 return N cylinders to CESL
- Call w/ T. Golden.
- Return to hotel in Kermit, TX
- 2000 - Stow Bennett pump

~~YORG~~

Former Y Station V. Morgan 1-3-01
in Sever River, NM -
Decan pump thoroughly:

- onsite 12-29-20 partial 10 gallons potable w/ 2% solution Liguinox.
- wait 2 hrs, purge tubing w/ N
- 1-3-01 use portable heater to heat Decan/soapy (2% Liguinox) solution from 8.0°C to 45°C - slow process ~ 1°/minute for each 5-gallon bucket - 10 gallons total
- Pump 10 warm soapy gallons slowly only 40 psi
- Pump 5 warm gallons (1% solution) slowly & allow to soak
- Pump 25 gallons potable rinse - cold
- " 5 " " " Hot
- " 5 " DI Rinse Hot
- " 5 " " " "
- To car wash to rinse trailer & hose reel & tubing
- Return and Pump 5 more gals DI
- 1600 - Collect Equipment Blank - 3/VA
vzb

Former Y Station

1-3-21
(cont)

- store all gear
- use N to purge tubing
of all fluids
- 1630 - Leave site - trailer
e 7Rivers. Gear inside locked hut.

~~John Meyer~~



GROUNDWATER METER CALIBRATION SHEET

Project Name: Former V Station Sampler: V. Morgan
 Project #: _____ Date: 12-27-20
 Project Manager: T. Golden

<u>pH</u>	<u>Temp (°C)</u>	<u>Comments</u>
(4) —	—	
(7) 7.04	15.4	
(10) —	—	
<u>SpCon (µs/cm)</u>	<u>Temp (°C)</u>	<u>Comments</u>
(1413) 13 ⁴⁰ → 1413	16.3	
<u>ORP (mv)</u>	<u>Temp (°C)</u>	<u>Comments</u>
209.1 → 220	15.4	
<u>Dissolved O₂</u>	<u>Temp (°C)</u>	<u>Comments</u>
(%) 79.6	18.7	New Sensor & Cap installed @ hotel
(mg/L) 5.25	19.2	
<u>Pressure</u>	<u>Temp (°C)</u>	<u>Comments</u>
(mmHg) 645.2	19.2	

Comments: Calibrated in hotel room. New DO sensor
installed to replace broken one.



GROUNDWATER METER CALIBRATION SHEET

Project Name: Fornal V station Sampler: V. Morgan
 Project #: DB18.1157.00 Date: 12-28-20
 Project Manager: T. Golden

<u>pH</u>	<u>Temp (°C)</u>	<u>Comments</u>
(4)		
(7) 7.03	4.7	
(10)		
<u>SpCon (µs/cm)</u>	<u>Temp (°C)</u>	<u>Comments</u>
(1413) 1420 → 1413	4.4	
<u>ORP (mv)</u>	<u>Temp (°C)</u>	<u>Comments</u>
221.0	4.2°	
<u>Dissolved O₂</u>	<u>Temp (°C)</u>	<u>Comments</u>
(%) 84.1 → 86.2	4.4	
(mg/L) 10.02	2.2	
<u>Pressure</u>	<u>Temp (°C)</u>	<u>Comments</u>
(mmHg) 655.0	4.3	

Comments:

Appendix C
Laboratory Report



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

January 11, 2021

Tom Golden

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX:

RE: Former Y Station

OrderNo.: 2012C83

Dear Tom Golden:

Hall Environmental Analysis Laboratory received 26 sample(s) on 12/30/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-4 HS

Project: Former Y Station

Collection Date: 12/28/2020 10:37:00 AM

Lab ID: 2012C83-001

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0095		µg/L	1	1/6/2021 9:31:43 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Toluene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Ethylbenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2-Dichloroethane (EDC)	1.1	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Naphthalene	ND	2.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
2-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Acetone	ND	10		µg/L	1	12/31/2020 4:09:11 AM	R74342
Bromobenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Bromodichloromethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Bromoform	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Bromomethane	ND	3.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
2-Butanone	ND	10		µg/L	1	12/31/2020 4:09:11 AM	R74342
Carbon disulfide	ND	10		µg/L	1	12/31/2020 4:09:11 AM	R74342
Carbon Tetrachloride	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Chlorobenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Chloroethane	ND	2.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Chloroform	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Chloromethane	ND	3.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
2-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
4-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
cis-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Dibromochloromethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Dibromomethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,1-Dichloroethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-4 HS

Project: Former Y Station

Collection Date: 12/28/2020 10:37:00 AM

Lab ID: 2012C83-001

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,3-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
2,2-Dichloropropane	ND	2.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,1-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Hexachlorobutadiene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
2-Hexanone	ND	10		µg/L	1	12/31/2020 4:09:11 AM	R74342
Isopropylbenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
4-Isopropyltoluene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
4-Methyl-2-pentanone	ND	10		µg/L	1	12/31/2020 4:09:11 AM	R74342
Methylene Chloride	ND	3.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
n-Butylbenzene	ND	3.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
n-Propylbenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
sec-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Styrene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
tert-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
trans-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Trichlorofluoromethane	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Vinyl chloride	ND	1.0		µg/L	1	12/31/2020 4:09:11 AM	R74342
Xylenes, Total	ND	1.5		µg/L	1	12/31/2020 4:09:11 AM	R74342
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%Rec	1	12/31/2020 4:09:11 AM	R74342
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	12/31/2020 4:09:11 AM	R74342
Surr: Dibromofluoromethane	96.3	70-130		%Rec	1	12/31/2020 4:09:11 AM	R74342
Surr: Toluene-d8	93.9	70-130		%Rec	1	12/31/2020 4:09:11 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7 HS

Project: Former Y Station

Collection Date: 12/28/2020 9:30:00 AM

Lab ID: 2012C83-002

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	0.015	0.0094		µg/L	1	1/6/2021 9:46:33 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	790	20		µg/L	20	12/31/2020 4:37:39 AM	R74342
Toluene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Ethylbenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,2,4-Trimethylbenzene	4.4	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,3,5-Trimethylbenzene	3.0	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,2-Dichloroethane (EDC)	370	20		µg/L	20	12/31/2020 4:37:39 AM	R74342
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Naphthalene	ND	4.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1-Methylnaphthalene	ND	8.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
2-Methylnaphthalene	ND	8.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Acetone	ND	20		µg/L	2	12/31/2020 5:06:05 AM	R74342
Bromobenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Bromodichloromethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Bromoform	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Bromomethane	ND	6.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
2-Butanone	ND	20		µg/L	2	12/31/2020 5:06:05 AM	R74342
Carbon disulfide	ND	20		µg/L	2	12/31/2020 5:06:05 AM	R74342
Carbon Tetrachloride	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Chlorobenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Chloroethane	ND	4.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Chloroform	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Chloromethane	ND	6.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
2-Chlorotoluene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
4-Chlorotoluene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
cis-1,2-DCE	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Dibromochloromethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Dibromomethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,2-Dichlorobenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,3-Dichlorobenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,4-Dichlorobenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Dichlorodifluoromethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,1-Dichloroethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7 HS

Project: Former Y Station

Collection Date: 12/28/2020 9:30:00 AM

Lab ID: 2012C83-002

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,2-Dichloropropane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,3-Dichloropropane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
2,2-Dichloropropane	ND	4.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,1-Dichloropropene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Hexachlorobutadiene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
2-Hexanone	ND	20		µg/L	2	12/31/2020 5:06:05 AM	R74342
Isopropylbenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
4-Isopropyltoluene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
4-Methyl-2-pentanone	24	20		µg/L	2	12/31/2020 5:06:05 AM	R74342
Methylene Chloride	ND	6.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
n-Butylbenzene	ND	6.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
n-Propylbenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
sec-Butylbenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Styrene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
tert-Butylbenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
trans-1,2-DCE	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,1,1-Trichloroethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,1,2-Trichloroethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Trichloroethene (TCE)	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Trichlorofluoromethane	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
1,2,3-Trichloropropane	ND	4.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Vinyl chloride	ND	2.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Xylenes, Total	3.1	3.0		µg/L	2	12/31/2020 5:06:05 AM	R74342
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%Rec	2	12/31/2020 5:06:05 AM	R74342
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	2	12/31/2020 5:06:05 AM	R74342
Surr: Dibromofluoromethane	96.9	70-130		%Rec	2	12/31/2020 5:06:05 AM	R74342
Surr: Toluene-d8	91.3	70-130		%Rec	2	12/31/2020 5:06:05 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-9 HS

Project: Former Y Station

Collection Date: 12/27/2020 4:42:00 PM

Lab ID: 2012C83-003

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0094		µg/L	1	1/6/2021 10:01:31 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Toluene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Ethylbenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Naphthalene	ND	2.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
2-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Acetone	ND	10		µg/L	1	12/31/2020 5:34:31 AM	R74342
Bromobenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Bromodichloromethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Bromoform	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Bromomethane	ND	3.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
2-Butanone	ND	10		µg/L	1	12/31/2020 5:34:31 AM	R74342
Carbon disulfide	ND	10		µg/L	1	12/31/2020 5:34:31 AM	R74342
Carbon Tetrachloride	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Chlorobenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Chloroethane	ND	2.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Chloroform	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Chloromethane	ND	3.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
2-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
4-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
cis-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Dibromochloromethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Dibromomethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,1-Dichloroethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-9 HS

Project: Former Y Station

Collection Date: 12/27/2020 4:42:00 PM

Lab ID: 2012C83-003

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,3-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
2,2-Dichloropropane	ND	2.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,1-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Hexachlorobutadiene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
2-Hexanone	ND	10		µg/L	1	12/31/2020 5:34:31 AM	R74342
Isopropylbenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
4-Isopropyltoluene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
4-Methyl-2-pentanone	ND	10		µg/L	1	12/31/2020 5:34:31 AM	R74342
Methylene Chloride	ND	3.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
n-Butylbenzene	ND	3.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
n-Propylbenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
sec-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Styrene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
tert-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
trans-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Trichlorofluoromethane	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Vinyl chloride	ND	1.0		µg/L	1	12/31/2020 5:34:31 AM	R74342
Xylenes, Total	ND	1.5		µg/L	1	12/31/2020 5:34:31 AM	R74342
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	1	12/31/2020 5:34:31 AM	R74342
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/31/2020 5:34:31 AM	R74342
Surr: Dibromofluoromethane	97.7	70-130		%Rec	1	12/31/2020 5:34:31 AM	R74342
Surr: Toluene-d8	90.8	70-130		%Rec	1	12/31/2020 5:34:31 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-10 HS

Project: Former Y Station

Collection Date: 12/27/2020 6:33:00 PM

Lab ID: 2012C83-004

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0094		µg/L	1	1/6/2021 10:16:28 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Toluene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Ethylbenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Naphthalene	ND	2.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
2-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Acetone	ND	10		µg/L	1	12/31/2020 6:03:16 AM	R74342
Bromobenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Bromodichloromethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Bromoform	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Bromomethane	ND	3.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
2-Butanone	ND	10		µg/L	1	12/31/2020 6:03:16 AM	R74342
Carbon disulfide	ND	10		µg/L	1	12/31/2020 6:03:16 AM	R74342
Carbon Tetrachloride	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Chlorobenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Chloroethane	ND	2.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Chloroform	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Chloromethane	ND	3.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
2-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
4-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
cis-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Dibromochloromethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Dibromomethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,1-Dichloroethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-10 HS

Project: Former Y Station

Collection Date: 12/27/2020 6:33:00 PM

Lab ID: 2012C83-004

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,3-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
2,2-Dichloropropane	ND	2.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,1-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Hexachlorobutadiene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
2-Hexanone	ND	10		µg/L	1	12/31/2020 6:03:16 AM	R74342
Isopropylbenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
4-Isopropyltoluene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
4-Methyl-2-pentanone	ND	10		µg/L	1	12/31/2020 6:03:16 AM	R74342
Methylene Chloride	ND	3.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
n-Butylbenzene	ND	3.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
n-Propylbenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
sec-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Styrene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
tert-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
trans-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Trichlorofluoromethane	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Vinyl chloride	ND	1.0		µg/L	1	12/31/2020 6:03:16 AM	R74342
Xylenes, Total	ND	1.5		µg/L	1	12/31/2020 6:03:16 AM	R74342
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%Rec	1	12/31/2020 6:03:16 AM	R74342
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	12/31/2020 6:03:16 AM	R74342
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	12/31/2020 6:03:16 AM	R74342
Surr: Toluene-d8	94.3	70-130		%Rec	1	12/31/2020 6:03:16 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-12 HS

Project: Former Y Station

Collection Date: 12/28/2020 7:30:00 AM

Lab ID: 2012C83-005

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	0.21	0.019		µg/L	2	1/6/2021 10:31:22 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	460	10		µg/L	10	12/31/2020 6:31:49 AM	R74342
Toluene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Ethylbenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2,4-Trimethylbenzene	5.6	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,3,5-Trimethylbenzene	6.1	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2-Dichloroethane (EDC)	68	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Naphthalene	ND	4.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1-Methylnaphthalene	ND	8.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
2-Methylnaphthalene	ND	8.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Acetone	ND	20		µg/L	2	1/1/2021 10:37:09 AM	C74352
Bromobenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Bromodichloromethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Bromoform	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Bromomethane	ND	6.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
2-Butanone	ND	20		µg/L	2	1/1/2021 10:37:09 AM	C74352
Carbon disulfide	ND	20		µg/L	2	1/1/2021 10:37:09 AM	C74352
Carbon Tetrachloride	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Chlorobenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Chloroethane	ND	4.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Chloroform	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Chloromethane	ND	6.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
2-Chlorotoluene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
4-Chlorotoluene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
cis-1,2-DCE	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Dibromochloromethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Dibromomethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2-Dichlorobenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,3-Dichlorobenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,4-Dichlorobenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Dichlorodifluoromethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,1-Dichloroethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-12 HS

Project: Former Y Station

Collection Date: 12/28/2020 7:30:00 AM

Lab ID: 2012C83-005

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2-Dichloropropane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,3-Dichloropropane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
2,2-Dichloropropane	ND	4.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,1-Dichloropropene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Hexachlorobutadiene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
2-Hexanone	ND	20		µg/L	2	1/1/2021 10:37:09 AM	C74352
Isopropylbenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
4-Isopropyltoluene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
4-Methyl-2-pentanone	ND	20		µg/L	2	1/1/2021 10:37:09 AM	C74352
Methylene Chloride	ND	6.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
n-Butylbenzene	ND	6.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
n-Propylbenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
sec-Butylbenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Styrene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
tert-Butylbenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
trans-1,2-DCE	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,1,1-Trichloroethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,1,2-Trichloroethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Trichloroethene (TCE)	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Trichlorofluoromethane	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
1,2,3-Trichloropropane	ND	4.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Vinyl chloride	ND	2.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Xylenes, Total	11	3.0		µg/L	2	1/1/2021 10:37:09 AM	C74352
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	2	1/1/2021 10:37:09 AM	C74352
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	2	1/1/2021 10:37:09 AM	C74352
Surr: Dibromofluoromethane	96.7	70-130		%Rec	2	1/1/2021 10:37:09 AM	C74352
Surr: Toluene-d8	93.4	70-130		%Rec	2	1/1/2021 10:37:09 AM	C74352

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-13 HS

Project: Former Y Station

Collection Date: 12/28/2020 8:24:00 AM

Lab ID: 2012C83-006

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	0.079	0.0094		µg/L	1	1/6/2021 10:46:18 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	22	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Toluene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Ethylbenzene	2.6	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2,4-Trimethylbenzene	1.7	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2-Dichloroethane (EDC)	26	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Naphthalene	ND	2.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
2-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Acetone	ND	10		µg/L	1	12/31/2020 7:00:14 AM	R74342
Bromobenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Bromodichloromethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Bromoform	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Bromomethane	ND	3.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
2-Butanone	ND	10		µg/L	1	12/31/2020 7:00:14 AM	R74342
Carbon disulfide	ND	10		µg/L	1	12/31/2020 7:00:14 AM	R74342
Carbon Tetrachloride	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Chlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Chloroethane	ND	2.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Chloroform	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Chloromethane	ND	3.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
2-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
4-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
cis-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Dibromochloromethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Dibromomethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,1-Dichloroethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-13 HS

Project: Former Y Station

Collection Date: 12/28/2020 8:24:00 AM

Lab ID: 2012C83-006

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,3-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
2,2-Dichloropropane	ND	2.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,1-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Hexachlorobutadiene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
2-Hexanone	ND	10		µg/L	1	12/31/2020 7:00:14 AM	R74342
Isopropylbenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
4-Isopropyltoluene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
4-Methyl-2-pentanone	ND	10		µg/L	1	12/31/2020 7:00:14 AM	R74342
Methylene Chloride	ND	3.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
n-Butylbenzene	ND	3.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
n-Propylbenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
sec-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Styrene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
tert-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
trans-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Trichlorofluoromethane	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Vinyl chloride	ND	1.0		µg/L	1	12/31/2020 7:00:14 AM	R74342
Xylenes, Total	2.5	1.5		µg/L	1	12/31/2020 7:00:14 AM	R74342
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%Rec	1	12/31/2020 7:00:14 AM	R74342
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	12/31/2020 7:00:14 AM	R74342
Surr: Dibromofluoromethane	95.3	70-130		%Rec	1	12/31/2020 7:00:14 AM	R74342
Surr: Toluene-d8	92.4	70-130		%Rec	1	12/31/2020 7:00:14 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-14 HS

Project: Former Y Station

Collection Date: 12/27/2020 10:00:00 AM

Lab ID: 2012C83-007

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0094		µg/L	1	1/6/2021 11:01:10 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Toluene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Ethylbenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Naphthalene	ND	2.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
2-Methylnaphthalene	ND	4.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Acetone	ND	10		µg/L	1	12/31/2020 7:28:38 AM	R74342
Bromobenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Bromodichloromethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Bromoform	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Bromomethane	ND	3.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
2-Butanone	ND	10		µg/L	1	12/31/2020 7:28:38 AM	R74342
Carbon disulfide	ND	10		µg/L	1	12/31/2020 7:28:38 AM	R74342
Carbon Tetrachloride	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Chlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Chloroethane	ND	2.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Chloroform	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Chloromethane	ND	3.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
2-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
4-Chlorotoluene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
cis-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Dibromochloromethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Dibromomethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,1-Dichloroethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-14 HS

Project: Former Y Station

Collection Date: 12/27/2020 10:00:00 AM

Lab ID: 2012C83-007

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,3-Dichloropropane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
2,2-Dichloropropane	ND	2.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,1-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Hexachlorobutadiene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
2-Hexanone	ND	10		µg/L	1	12/31/2020 7:28:38 AM	R74342
Isopropylbenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
4-Isopropyltoluene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
4-Methyl-2-pentanone	ND	10		µg/L	1	12/31/2020 7:28:38 AM	R74342
Methylene Chloride	ND	3.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
n-Butylbenzene	ND	3.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
n-Propylbenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
sec-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Styrene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
tert-Butylbenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
trans-1,2-DCE	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Trichlorofluoromethane	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Vinyl chloride	ND	1.0		µg/L	1	12/31/2020 7:28:38 AM	R74342
Xylenes, Total	ND	1.5		µg/L	1	12/31/2020 7:28:38 AM	R74342
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%Rec	1	12/31/2020 7:28:38 AM	R74342
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	12/31/2020 7:28:38 AM	R74342
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	12/31/2020 7:28:38 AM	R74342
Surr: Toluene-d8	91.2	70-130		%Rec	1	12/31/2020 7:28:38 AM	R74342

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-15 HS

Project: Former Y Station

Collection Date: 12/27/2020 3:44:00 PM

Lab ID: 2012C83-008

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0096		µg/L	1	1/6/2021 11:16:11 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Toluene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Ethylbenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Naphthalene	ND	2.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
2-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Acetone	ND	10		µg/L	1	1/3/2021 3:53:55 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
2-Butanone	ND	10		µg/L	1	1/3/2021 3:53:55 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 3:53:55 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-15 HS

Project: Former Y Station

Collection Date: 12/27/2020 3:44:00 PM

Lab ID: 2012C83-008

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
2-Hexanone	ND	10		µg/L	1	1/3/2021 3:53:55 AM	R74355
Isopropylbenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
4-Isopropyltoluene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
4-Methyl-2-pentanone	ND	10		µg/L	1	1/3/2021 3:53:55 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
n-Propylbenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
sec-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 3:53:55 AM	R74355
Xylenes, Total	ND	1.5		µg/L	1	1/3/2021 3:53:55 AM	R74355
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	1/3/2021 3:53:55 AM	R74355
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	1/3/2021 3:53:55 AM	R74355
Surr: Dibromofluoromethane	106	70-130		%Rec	1	1/3/2021 3:53:55 AM	R74355
Surr: Toluene-d8	104	70-130		%Rec	1	1/3/2021 3:53:55 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-17 HS

Project: Former Y Station

Collection Date: 12/27/2020 3:20:00 PM

Lab ID: 2012C83-009

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0094		µg/L	1	1/6/2021 11:31:06 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Toluene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Ethylbenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Naphthalene	ND	2.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
2-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Acetone	ND	10		µg/L	1	1/3/2021 4:22:22 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
2-Butanone	ND	10		µg/L	1	1/3/2021 4:22:22 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 4:22:22 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-17 HS

Project: Former Y Station

Collection Date: 12/27/2020 3:20:00 PM

Lab ID: 2012C83-009

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
2-Hexanone	ND	10		µg/L	1	1/3/2021 4:22:22 AM	R74355
Isopropylbenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
4-Isopropyltoluene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
4-Methyl-2-pentanone	ND	10		µg/L	1	1/3/2021 4:22:22 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
n-Propylbenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
sec-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 4:22:22 AM	R74355
Xylenes, Total	ND	1.5		µg/L	1	1/3/2021 4:22:22 AM	R74355
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	1/3/2021 4:22:22 AM	R74355
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	1/3/2021 4:22:22 AM	R74355
Surr: Dibromofluoromethane	107	70-130		%Rec	1	1/3/2021 4:22:22 AM	R74355
Surr: Toluene-d8	102	70-130		%Rec	1	1/3/2021 4:22:22 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-1 HS

Project: Former Y Station

Collection Date: 12/28/2020 10:11:00 AM

Lab ID: 2012C83-010

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	5.1	0.47		µg/L	50	1/6/2021 11:46:03 AM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	5500	100		µg/L	100	1/3/2021 5:57:19 PM	R74358
Toluene	3300	100		µg/L	100	1/3/2021 5:57:19 PM	R74358
Ethylbenzene	260	100		µg/L	100	1/3/2021 5:57:19 PM	R74358
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2,4-Trimethylbenzene	340	100		µg/L	100	1/3/2021 5:57:19 PM	R74358
1,3,5-Trimethylbenzene	92	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2-Dichloroethane (EDC)	31	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2-Dibromoethane (EDB)	5.0	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Naphthalene	99	2.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1-Methylnaphthalene	19	4.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
2-Methylnaphthalene	43	4.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Acetone	ND	10		µg/L	1	1/3/2021 4:50:51 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
2-Butanone	ND	10		µg/L	1	1/3/2021 4:50:51 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 4:50:51 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-1 HS

Project: Former Y Station

Collection Date: 12/28/2020 10:11:00 AM

Lab ID: 2012C83-010

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
2-Hexanone	ND	10		µg/L	1	1/3/2021 4:50:51 AM	R74355
Isopropylbenzene	14	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
4-Isopropyltoluene	1.5	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
4-Methyl-2-pentanone	16	10		µg/L	1	1/3/2021 4:50:51 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
n-Propylbenzene	11	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
sec-Butylbenzene	1.5	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 4:50:51 AM	R74355
Xylenes, Total	2000	150		µg/L	100	1/3/2021 5:57:19 PM	R74358
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	1/3/2021 4:50:51 AM	R74355
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/3/2021 4:50:51 AM	R74355
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/3/2021 4:50:51 AM	R74355
Surr: Toluene-d8	104	70-130		%Rec	1	1/3/2021 4:50:51 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-2 HS

Project: Former Y Station

Collection Date: 12/27/2020 5:53:00 PM

Lab ID: 2012C83-011

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	31	4.7		µg/L	500	1/6/2021 12:15:56 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	7400	100		µg/L	100	1/3/2021 6:25:59 PM	R74358
Toluene	6200	100		µg/L	100	1/3/2021 6:25:59 PM	R74358
Ethylbenzene	380	100		µg/L	100	1/3/2021 6:25:59 PM	R74358
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2,4-Trimethylbenzene	340	100		µg/L	100	1/3/2021 6:25:59 PM	R74358
1,3,5-Trimethylbenzene	78	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2-Dichloroethane (EDC)	64	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2-Dibromoethane (EDB)	30	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Naphthalene	87	2.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1-Methylnaphthalene	14	4.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
2-Methylnaphthalene	32	4.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Acetone	68	10		µg/L	1	1/3/2021 5:19:25 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
2-Butanone	49	10		µg/L	1	1/3/2021 5:19:25 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 5:19:25 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-2 HS

Project: Former Y Station

Collection Date: 12/27/2020 5:53:00 PM

Lab ID: 2012C83-011

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
2-Hexanone	41	10		µg/L	1	1/3/2021 5:19:25 AM	R74355
Isopropylbenzene	16	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
4-Isopropyltoluene	1.6	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
4-Methyl-2-pentanone	70	10		µg/L	1	1/3/2021 5:19:25 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
n-Butylbenzene	3.5	3.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
n-Propylbenzene	31	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
sec-Butylbenzene	1.7	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 5:19:25 AM	R74355
Xylenes, Total	1800	150		µg/L	100	1/3/2021 6:25:59 PM	R74358
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/3/2021 5:19:25 AM	R74355
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/3/2021 5:19:25 AM	R74355
Surr: Dibromofluoromethane	98.8	70-130		%Rec	1	1/3/2021 5:19:25 AM	R74355
Surr: Toluene-d8	103	70-130		%Rec	1	1/3/2021 5:19:25 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7R HS

Project: Former Y Station

Collection Date: 12/28/2020 11:57:00 AM

Lab ID: 2012C83-012

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	0.044	0.0093		µg/L	1	1/6/2021 12:30:54 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	610	20		µg/L	20	1/3/2021 6:54:38 PM	R74358
Toluene	3.6	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Ethylbenzene	11	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,2,4-Trimethylbenzene	7.2	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,3,5-Trimethylbenzene	2.4	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,2-Dichloroethane (EDC)	88	20		µg/L	20	1/3/2021 6:54:38 PM	R74358
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Naphthalene	6.7	2.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
2-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Acetone	ND	10		µg/L	1	1/3/2021 5:47:55 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
2-Butanone	ND	10		µg/L	1	1/3/2021 5:47:55 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 5:47:55 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7R HS

Project: Former Y Station

Collection Date: 12/28/2020 11:57:00 AM

Lab ID: 2012C83-012

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
2-Hexanone	ND	10		µg/L	1	1/3/2021 5:47:55 AM	R74355
Isopropylbenzene	1.8	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
4-Isopropyltoluene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
4-Methyl-2-pentanone	ND	10		µg/L	1	1/3/2021 5:47:55 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
n-Propylbenzene	1.7	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
sec-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 5:47:55 AM	R74355
Xylenes, Total	2.5	1.5		µg/L	1	1/3/2021 5:47:55 AM	R74355
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	1/3/2021 5:47:55 AM	R74355
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/3/2021 5:47:55 AM	R74355
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/3/2021 5:47:55 AM	R74355
Surr: Toluene-d8	103	70-130		%Rec	1	1/3/2021 5:47:55 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7R BP

Project: Former Y Station

Collection Date: 12/28/2020 2:01:00 PM

Lab ID: 2012C83-013

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	0.29	0.019		µg/L	2	1/6/2021 12:45:46 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	130	10		µg/L	10	1/3/2021 7:23:19 PM	R74358
Toluene	1.5	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Ethylbenzene	3.2	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2,4-Trimethylbenzene	1.7	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,3,5-Trimethylbenzene	1.3	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2-Dichloroethane (EDC)	71	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Naphthalene	2.9	2.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
2-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Acetone	ND	10		µg/L	1	1/3/2021 6:16:23 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
2-Butanone	ND	10		µg/L	1	1/3/2021 6:16:23 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 6:16:23 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,1-Dichloroethane	1.0	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7R BP

Project: Former Y Station

Collection Date: 12/28/2020 2:01:00 PM

Lab ID: 2012C83-013

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
2-Hexanone	ND	10		µg/L	1	1/3/2021 6:16:23 AM	R74355
Isopropylbenzene	1.7	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
4-Isopropyltoluene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
4-Methyl-2-pentanone	ND	10		µg/L	1	1/3/2021 6:16:23 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
n-Propylbenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
sec-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 6:16:23 AM	R74355
Xylenes, Total	2.1	1.5		µg/L	1	1/3/2021 6:16:23 AM	R74355
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/3/2021 6:16:23 AM	R74355
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/3/2021 6:16:23 AM	R74355
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/3/2021 6:16:23 AM	R74355
Surr: Toluene-d8	102	70-130		%Rec	1	1/3/2021 6:16:23 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-16 HS

Project: Former Y Station

Collection Date: 12/28/2020 5:00:00 PM

Lab ID: 2012C83-014

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	0.25	0.019		µg/L	2	1/6/2021 1:30:44 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	55	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Toluene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Ethylbenzene	2.7	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2,4-Trimethylbenzene	3.1	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,3,5-Trimethylbenzene	1.5	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2-Dichloroethane (EDC)	30	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Naphthalene	ND	2.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
2-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Acetone	ND	10		µg/L	1	1/3/2021 6:44:56 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
2-Butanone	ND	10		µg/L	1	1/3/2021 6:44:56 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 6:44:56 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-16 HS

Project: Former Y Station

Collection Date: 12/28/2020 5:00:00 PM

Lab ID: 2012C83-014

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
2-Hexanone	ND	10		µg/L	1	1/3/2021 6:44:56 AM	R74355
Isopropylbenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
4-Isopropyltoluene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
4-Methyl-2-pentanone	ND	10		µg/L	1	1/3/2021 6:44:56 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
n-Propylbenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
sec-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 6:44:56 AM	R74355
Xylenes, Total	29	1.5		µg/L	1	1/3/2021 6:44:56 AM	R74355
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	1/3/2021 6:44:56 AM	R74355
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	1/3/2021 6:44:56 AM	R74355
Surr: Dibromofluoromethane	101	70-130		%Rec	1	1/3/2021 6:44:56 AM	R74355
Surr: Toluene-d8	102	70-130		%Rec	1	1/3/2021 6:44:56 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-16 BP

Project: Former Y Station

Collection Date: 12/28/2020 6:55:00 PM

Lab ID: 2012C83-015

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	0.52	0.047		µg/L	5	1/6/2021 1:45:42 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	1500	50		µg/L	50	1/3/2021 7:51:55 PM	R74358
Toluene	7.3	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Ethylbenzene	49	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2,4-Trimethylbenzene	69	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,3,5-Trimethylbenzene	20	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2-Dichloroethane (EDC)	70	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Naphthalene	13	2.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1-Methylnaphthalene	ND	4.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
2-Methylnaphthalene	5.1	4.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Acetone	ND	10		µg/L	1	1/3/2021 7:13:23 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
2-Butanone	ND	10		µg/L	1	1/3/2021 7:13:23 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 7:13:23 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-16 BP

Project: Former Y Station

Collection Date: 12/28/2020 6:55:00 PM

Lab ID: 2012C83-015

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
2-Hexanone	ND	10		µg/L	1	1/3/2021 7:13:23 AM	R74355
Isopropylbenzene	5.2	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
4-Isopropyltoluene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
4-Methyl-2-pentanone	ND	10		µg/L	1	1/3/2021 7:13:23 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
n-Propylbenzene	7.4	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
sec-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 7:13:23 AM	R74355
Xylenes, Total	380	75		µg/L	50	1/3/2021 7:51:55 PM	R74358
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	1/3/2021 7:13:23 AM	R74355
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	1/3/2021 7:13:23 AM	R74355
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/3/2021 7:13:23 AM	R74355
Surr: Toluene-d8	105	70-130		%Rec	1	1/3/2021 7:13:23 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-3 HS

Project: Former Y Station

Collection Date: 12/28/2020 7:25:00 PM

Lab ID: 2012C83-016

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	20	1.9		µg/L	200	1/6/2021 3:30:13 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	2000	50		µg/L	50	1/3/2021 8:20:29 PM	R74358
Toluene	530	50		µg/L	50	1/3/2021 8:20:29 PM	R74358
Ethylbenzene	89	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Methyl tert-butyl ether (MTBE)	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2,4-Trimethylbenzene	140	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,3,5-Trimethylbenzene	36	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2-Dichloroethane (EDC)	84	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2-Dibromoethane (EDB)	21	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Naphthalene	24	4.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1-Methylnaphthalene	ND	8.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
2-Methylnaphthalene	ND	8.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Acetone	ND	20	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Bromobenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Bromodichloromethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Bromoform	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Bromomethane	ND	6.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
2-Butanone	ND	20	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Carbon disulfide	ND	20	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Carbon Tetrachloride	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Chlorobenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Chloroethane	ND	4.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Chloroform	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Chloromethane	ND	6.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
2-Chlorotoluene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
4-Chlorotoluene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
cis-1,2-DCE	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
cis-1,3-Dichloropropene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2-Dibromo-3-chloropropane	ND	4.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Dibromochloromethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Dibromomethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2-Dichlorobenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,3-Dichlorobenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,4-Dichlorobenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Dichlorodifluoromethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,1-Dichloroethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-3 HS

Project: Former Y Station

Collection Date: 12/28/2020 7:25:00 PM

Lab ID: 2012C83-016

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2-Dichloropropane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,3-Dichloropropane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
2,2-Dichloropropane	ND	4.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,1-Dichloropropene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Hexachlorobutadiene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
2-Hexanone	ND	20	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Isopropylbenzene	6.2	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
4-Isopropyltoluene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
4-Methyl-2-pentanone	ND	20	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Methylene Chloride	ND	6.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
n-Butylbenzene	ND	6.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
n-Propylbenzene	8.1	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
sec-Butylbenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Styrene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
tert-Butylbenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,1,1,2-Tetrachloroethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,1,2,2-Tetrachloroethane	ND	4.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Tetrachloroethene (PCE)	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
trans-1,2-DCE	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
trans-1,3-Dichloropropene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2,3-Trichlorobenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2,4-Trichlorobenzene	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,1,1-Trichloroethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,1,2-Trichloroethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Trichloroethene (TCE)	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Trichlorofluoromethane	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
1,2,3-Trichloropropane	ND	4.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Vinyl chloride	ND	2.0	D	µg/L	2	1/3/2021 7:41:55 AM	R74355
Xylenes, Total	690	75		µg/L	50	1/3/2021 8:20:29 PM	R74358
Surr: 1,2-Dichloroethane-d4	104	70-130	D	%Rec	2	1/3/2021 7:41:55 AM	R74355
Surr: 4-Bromofluorobenzene	98.8	70-130	D	%Rec	2	1/3/2021 7:41:55 AM	R74355
Surr: Dibromofluoromethane	101	70-130	D	%Rec	2	1/3/2021 7:41:55 AM	R74355
Surr: Toluene-d8	99.2	70-130	D	%Rec	2	1/3/2021 7:41:55 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-3 BP

Project: Former Y Station

Collection Date: 12/28/2020 8:39:00 PM

Lab ID: 2012C83-017

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	14	0.93		µg/L	100	1/6/2021 2:15:50 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	3000	50		µg/L	50	1/3/2021 8:49:06 PM	R74358
Toluene	2500	50		µg/L	50	1/3/2021 8:49:06 PM	R74358
Ethylbenzene	200	50		µg/L	50	1/3/2021 8:49:06 PM	R74358
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,2,4-Trimethylbenzene	240	50		µg/L	50	1/3/2021 8:49:06 PM	R74358
1,3,5-Trimethylbenzene	64	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,2-Dichloroethane (EDC)	94	50		µg/L	50	1/3/2021 8:49:06 PM	R74358
1,2-Dibromoethane (EDB)	16	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Naphthalene	60	2.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1-Methylnaphthalene	10	4.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
2-Methylnaphthalene	20	4.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Acetone	26	10		µg/L	1	1/3/2021 8:10:39 AM	R74355
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Bromoform	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Bromomethane	ND	3.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
2-Butanone	37	10		µg/L	1	1/3/2021 8:10:39 AM	R74355
Carbon disulfide	ND	10		µg/L	1	1/3/2021 8:10:39 AM	R74355
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Chloroethane	ND	2.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Chloroform	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Chloromethane	ND	3.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-3 BP

Project: Former Y Station

Collection Date: 12/28/2020 8:39:00 PM

Lab ID: 2012C83-017

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
2-Hexanone	47	10		µg/L	1	1/3/2021 8:10:39 AM	R74355
Isopropylbenzene	15	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
4-Isopropyltoluene	1.1	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
4-Methyl-2-pentanone	24	10		µg/L	1	1/3/2021 8:10:39 AM	R74355
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
n-Butylbenzene	3.0	3.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
n-Propylbenzene	29	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
sec-Butylbenzene	1.7	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Styrene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 8:10:39 AM	R74355
Xylenes, Total	1200	75		µg/L	50	1/3/2021 8:49:06 PM	R74358
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	1/3/2021 8:10:39 AM	R74355
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/3/2021 8:10:39 AM	R74355
Surr: Dibromofluoromethane	102	70-130		%Rec	1	1/3/2021 8:10:39 AM	R74355
Surr: Toluene-d8	103	70-130		%Rec	1	1/3/2021 8:10:39 AM	R74355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-4 HS

Project: Former Y Station

Collection Date: 12/28/2020 2:26:00 PM

Lab ID: 2012C83-018

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	10	0.94		µg/L	100	1/6/2021 2:29:58 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	3400	100		µg/L	100	1/3/2021 5:28:34 PM	R74358
Toluene	1100	100		µg/L	100	1/3/2021 5:28:34 PM	R74358
Ethylbenzene	220	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2,4-Trimethylbenzene	130	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,3,5-Trimethylbenzene	29	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2-Dichloroethane (EDC)	56	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Naphthalene	35	20		µg/L	10	1/3/2021 12:13:05 PM	R74358
1-Methylnaphthalene	ND	40		µg/L	10	1/3/2021 12:13:05 PM	R74358
2-Methylnaphthalene	ND	40		µg/L	10	1/3/2021 12:13:05 PM	R74358
Acetone	100	100		µg/L	10	1/3/2021 12:13:05 PM	R74358
Bromobenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Bromodichloromethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Bromoform	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Bromomethane	ND	30		µg/L	10	1/3/2021 12:13:05 PM	R74358
2-Butanone	ND	100		µg/L	10	1/3/2021 12:13:05 PM	R74358
Carbon disulfide	ND	100		µg/L	10	1/3/2021 12:13:05 PM	R74358
Carbon Tetrachloride	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Chlorobenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Chloroethane	ND	20		µg/L	10	1/3/2021 12:13:05 PM	R74358
Chloroform	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Chloromethane	ND	30		µg/L	10	1/3/2021 12:13:05 PM	R74358
2-Chlorotoluene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
4-Chlorotoluene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
cis-1,2-DCE	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
cis-1,3-Dichloropropene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	1/3/2021 12:13:05 PM	R74358
Dibromochloromethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Dibromomethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2-Dichlorobenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,3-Dichlorobenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,4-Dichlorobenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Dichlorodifluoromethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,1-Dichloroethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-4 HS

Project: Former Y Station

Collection Date: 12/28/2020 2:26:00 PM

Lab ID: 2012C83-018

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2-Dichloropropane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,3-Dichloropropane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
2,2-Dichloropropane	ND	20		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,1-Dichloropropene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Hexachlorobutadiene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
2-Hexanone	ND	100		µg/L	10	1/3/2021 12:13:05 PM	R74358
Isopropylbenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
4-Isopropyltoluene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
4-Methyl-2-pentanone	ND	100		µg/L	10	1/3/2021 12:13:05 PM	R74358
Methylene Chloride	ND	30		µg/L	10	1/3/2021 12:13:05 PM	R74358
n-Butylbenzene	ND	30		µg/L	10	1/3/2021 12:13:05 PM	R74358
n-Propylbenzene	16	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
sec-Butylbenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Styrene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
tert-Butylbenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	1/3/2021 12:13:05 PM	R74358
Tetrachloroethene (PCE)	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
trans-1,2-DCE	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
trans-1,3-Dichloropropene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2,3-Trichlorobenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2,4-Trichlorobenzene	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,1,1-Trichloroethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,1,2-Trichloroethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Trichloroethene (TCE)	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Trichlorofluoromethane	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
1,2,3-Trichloropropane	ND	20		µg/L	10	1/3/2021 12:13:05 PM	R74358
Vinyl chloride	ND	10		µg/L	10	1/3/2021 12:13:05 PM	R74358
Xylenes, Total	760	15		µg/L	10	1/3/2021 12:13:05 PM	R74358
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	10	1/3/2021 12:13:05 PM	R74358
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	10	1/3/2021 12:13:05 PM	R74358
Surr: Dibromofluoromethane	99.4	70-130		%Rec	10	1/3/2021 12:13:05 PM	R74358
Surr: Toluene-d8	100	70-130		%Rec	10	1/3/2021 12:13:05 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-4 BP

Project: Former Y Station

Collection Date: 12/28/2020 3:48:00 PM

Lab ID: 2012C83-019

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	8.8	0.95		µg/L	100	1/6/2021 3:00:03 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	1900	100		µg/L	100	1/3/2021 9:17:44 PM	R74358
Toluene	1400	100		µg/L	100	1/3/2021 9:17:44 PM	R74358
Ethylbenzene	160	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2,4-Trimethylbenzene	100	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,3,5-Trimethylbenzene	24	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2-Dichloroethane (EDC)	33	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2-Dibromoethane (EDB)	12	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Naphthalene	27	20		µg/L	10	1/3/2021 12:41:41 PM	R74358
1-Methylnaphthalene	ND	40		µg/L	10	1/3/2021 12:41:41 PM	R74358
2-Methylnaphthalene	ND	40		µg/L	10	1/3/2021 12:41:41 PM	R74358
Acetone	ND	100		µg/L	10	1/3/2021 12:41:41 PM	R74358
Bromobenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Bromodichloromethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Bromoform	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Bromomethane	ND	30		µg/L	10	1/3/2021 12:41:41 PM	R74358
2-Butanone	ND	100		µg/L	10	1/3/2021 12:41:41 PM	R74358
Carbon disulfide	ND	100		µg/L	10	1/3/2021 12:41:41 PM	R74358
Carbon Tetrachloride	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Chlorobenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Chloroethane	ND	20		µg/L	10	1/3/2021 12:41:41 PM	R74358
Chloroform	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Chloromethane	ND	30		µg/L	10	1/3/2021 12:41:41 PM	R74358
2-Chlorotoluene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
4-Chlorotoluene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
cis-1,2-DCE	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
cis-1,3-Dichloropropene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	1/3/2021 12:41:41 PM	R74358
Dibromochloromethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Dibromomethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2-Dichlorobenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,3-Dichlorobenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,4-Dichlorobenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Dichlorodifluoromethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,1-Dichloroethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-4 BP

Project: Former Y Station

Collection Date: 12/28/2020 3:48:00 PM

Lab ID: 2012C83-019

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2-Dichloropropane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,3-Dichloropropane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
2,2-Dichloropropane	ND	20		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,1-Dichloropropene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Hexachlorobutadiene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
2-Hexanone	ND	100		µg/L	10	1/3/2021 12:41:41 PM	R74358
Isopropylbenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
4-Isopropyltoluene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
4-Methyl-2-pentanone	ND	100		µg/L	10	1/3/2021 12:41:41 PM	R74358
Methylene Chloride	ND	30		µg/L	10	1/3/2021 12:41:41 PM	R74358
n-Butylbenzene	ND	30		µg/L	10	1/3/2021 12:41:41 PM	R74358
n-Propylbenzene	13	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
sec-Butylbenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Styrene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
tert-Butylbenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	1/3/2021 12:41:41 PM	R74358
Tetrachloroethene (PCE)	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
trans-1,2-DCE	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
trans-1,3-Dichloropropene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2,3-Trichlorobenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2,4-Trichlorobenzene	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,1,1-Trichloroethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,1,2-Trichloroethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Trichloroethene (TCE)	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Trichlorofluoromethane	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
1,2,3-Trichloropropane	ND	20		µg/L	10	1/3/2021 12:41:41 PM	R74358
Vinyl chloride	ND	10		µg/L	10	1/3/2021 12:41:41 PM	R74358
Xylenes, Total	650	15		µg/L	10	1/3/2021 12:41:41 PM	R74358
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	10	1/3/2021 12:41:41 PM	R74358
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	10	1/3/2021 12:41:41 PM	R74358
Surr: Dibromofluoromethane	102	70-130		%Rec	10	1/3/2021 12:41:41 PM	R74358
Surr: Toluene-d8	106	70-130		%Rec	10	1/3/2021 12:41:41 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-8 Shallow HS

Project: Former Y Station

Collection Date: 12/29/2020 8:12:00 AM

Lab ID: 2012C83-020

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	0.19	0.094		µg/L	10	1/6/2021 3:15:11 PM	57331
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	17000	500		µg/L	500	1/3/2021 9:46:16 PM	R74358
Toluene	31000	500		µg/L	500	1/3/2021 9:46:16 PM	R74358
Ethylbenzene	2000	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2,4-Trimethylbenzene	1300	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,3,5-Trimethylbenzene	310	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2-Dichloroethane (EDC)	76	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Naphthalene	440	40		µg/L	20	1/3/2021 1:10:17 PM	R74358
1-Methylnaphthalene	ND	80		µg/L	20	1/3/2021 1:10:17 PM	R74358
2-Methylnaphthalene	130	80		µg/L	20	1/3/2021 1:10:17 PM	R74358
Acetone	1100	200		µg/L	20	1/3/2021 1:10:17 PM	R74358
Bromobenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Bromodichloromethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Bromoform	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Bromomethane	ND	60		µg/L	20	1/3/2021 1:10:17 PM	R74358
2-Butanone	1500	200		µg/L	20	1/3/2021 1:10:17 PM	R74358
Carbon disulfide	ND	200		µg/L	20	1/3/2021 1:10:17 PM	R74358
Carbon Tetrachloride	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Chlorobenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Chloroethane	ND	40		µg/L	20	1/3/2021 1:10:17 PM	R74358
Chloroform	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Chloromethane	ND	60		µg/L	20	1/3/2021 1:10:17 PM	R74358
2-Chlorotoluene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
4-Chlorotoluene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
cis-1,2-DCE	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
cis-1,3-Dichloropropene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	1/3/2021 1:10:17 PM	R74358
Dibromochloromethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Dibromomethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2-Dichlorobenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,3-Dichlorobenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,4-Dichlorobenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Dichlorodifluoromethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,1-Dichloroethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-8 Shallow HS

Project: Former Y Station

Collection Date: 12/29/2020 8:12:00 AM

Lab ID: 2012C83-020

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2-Dichloropropane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,3-Dichloropropane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
2,2-Dichloropropane	ND	40		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,1-Dichloropropene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Hexachlorobutadiene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
2-Hexanone	1000	200		µg/L	20	1/3/2021 1:10:17 PM	R74358
Isopropylbenzene	77	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
4-Isopropyltoluene	110	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
4-Methyl-2-pentanone	310	200		µg/L	20	1/3/2021 1:10:17 PM	R74358
Methylene Chloride	ND	60		µg/L	20	1/3/2021 1:10:17 PM	R74358
n-Butylbenzene	ND	60		µg/L	20	1/3/2021 1:10:17 PM	R74358
n-Propylbenzene	200	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
sec-Butylbenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Styrene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
tert-Butylbenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	1/3/2021 1:10:17 PM	R74358
Tetrachloroethene (PCE)	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
trans-1,2-DCE	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
trans-1,3-Dichloropropene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2,3-Trichlorobenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2,4-Trichlorobenzene	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,1,1-Trichloroethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,1,2-Trichloroethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Trichloroethene (TCE)	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Trichlorofluoromethane	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
1,2,3-Trichloropropane	ND	40		µg/L	20	1/3/2021 1:10:17 PM	R74358
Vinyl chloride	ND	20		µg/L	20	1/3/2021 1:10:17 PM	R74358
Xylenes, Total	11000	750		µg/L	500	1/3/2021 9:46:16 PM	R74358
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	20	1/3/2021 1:10:17 PM	R74358
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	20	1/3/2021 1:10:17 PM	R74358
Surr: Dibromofluoromethane	101	70-130		%Rec	20	1/3/2021 1:10:17 PM	R74358
Surr: Toluene-d8	102	70-130		%Rec	20	1/3/2021 1:10:17 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-8 Center HS

Project: Former Y Station

Collection Date: 12/29/2020 12:30:00 PM

Lab ID: 2012C83-021

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	0.20	0.094		µg/L	10	1/7/2021 8:46:53 AM	57340
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	15000	500		µg/L	500	1/3/2021 10:14:53 PM	R74358
Toluene	24000	500		µg/L	500	1/3/2021 10:14:53 PM	R74358
Ethylbenzene	1400	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2,4-Trimethylbenzene	840	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,3,5-Trimethylbenzene	210	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2-Dichloroethane (EDC)	77	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Naphthalene	320	40		µg/L	20	1/3/2021 1:38:53 PM	R74358
1-Methylnaphthalene	ND	80		µg/L	20	1/3/2021 1:38:53 PM	R74358
2-Methylnaphthalene	93	80		µg/L	20	1/3/2021 1:38:53 PM	R74358
Acetone	950	200		µg/L	20	1/3/2021 1:38:53 PM	R74358
Bromobenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Bromodichloromethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Bromoform	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Bromomethane	ND	60		µg/L	20	1/3/2021 1:38:53 PM	R74358
2-Butanone	1300	200		µg/L	20	1/3/2021 1:38:53 PM	R74358
Carbon disulfide	ND	200		µg/L	20	1/3/2021 1:38:53 PM	R74358
Carbon Tetrachloride	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Chlorobenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Chloroethane	ND	40		µg/L	20	1/3/2021 1:38:53 PM	R74358
Chloroform	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Chloromethane	ND	60		µg/L	20	1/3/2021 1:38:53 PM	R74358
2-Chlorotoluene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
4-Chlorotoluene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
cis-1,2-DCE	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
cis-1,3-Dichloropropene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	1/3/2021 1:38:53 PM	R74358
Dibromochloromethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Dibromomethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2-Dichlorobenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,3-Dichlorobenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,4-Dichlorobenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Dichlorodifluoromethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,1-Dichloroethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-8 Center HS

Project: Former Y Station

Collection Date: 12/29/2020 12:30:00 PM

Lab ID: 2012C83-021

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2-Dichloropropane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,3-Dichloropropane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
2,2-Dichloropropane	ND	40		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,1-Dichloropropene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Hexachlorobutadiene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
2-Hexanone	910	200		µg/L	20	1/3/2021 1:38:53 PM	R74358
Isopropylbenzene	51	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
4-Isopropyltoluene	76	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
4-Methyl-2-pentanone	290	200		µg/L	20	1/3/2021 1:38:53 PM	R74358
Methylene Chloride	ND	60		µg/L	20	1/3/2021 1:38:53 PM	R74358
n-Butylbenzene	ND	60		µg/L	20	1/3/2021 1:38:53 PM	R74358
n-Propylbenzene	130	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
sec-Butylbenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Styrene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
tert-Butylbenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	1/3/2021 1:38:53 PM	R74358
Tetrachloroethene (PCE)	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
trans-1,2-DCE	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
trans-1,3-Dichloropropene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2,3-Trichlorobenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2,4-Trichlorobenzene	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,1,1-Trichloroethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,1,2-Trichloroethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Trichloroethene (TCE)	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Trichlorofluoromethane	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
1,2,3-Trichloropropane	ND	40		µg/L	20	1/3/2021 1:38:53 PM	R74358
Vinyl chloride	ND	20		µg/L	20	1/3/2021 1:38:53 PM	R74358
Xylenes, Total	7400	750		µg/L	500	1/3/2021 10:14:53 PM	R74358
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	20	1/3/2021 1:38:53 PM	R74358
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	20	1/3/2021 1:38:53 PM	R74358
Surr: Dibromofluoromethane	104	70-130		%Rec	20	1/3/2021 1:38:53 PM	R74358
Surr: Toluene-d8	102	70-130		%Rec	20	1/3/2021 1:38:53 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-8 BP

Project: Former Y Station

Collection Date: 12/29/2020 1:30:00 PM

Lab ID: 2012C83-022

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	0.11	0.0095		µg/L	1	1/6/2021 5:45:37 PM	57340
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	4100	200		µg/L	200	1/4/2021 1:06:17 AM	R74358
Toluene	5600	200		µg/L	200	1/4/2021 1:06:17 AM	R74358
Ethylbenzene	450	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2,4-Trimethylbenzene	270	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,3,5-Trimethylbenzene	74	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2-Dichloroethane (EDC)	90	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Naphthalene	110	10		µg/L	5	1/3/2021 2:07:30 PM	R74358
1-Methylnaphthalene	ND	20		µg/L	5	1/3/2021 2:07:30 PM	R74358
2-Methylnaphthalene	36	20		µg/L	5	1/3/2021 2:07:30 PM	R74358
Acetone	260	50		µg/L	5	1/3/2021 2:07:30 PM	R74358
Bromobenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Bromodichloromethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Bromoform	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Bromomethane	ND	15		µg/L	5	1/3/2021 2:07:30 PM	R74358
2-Butanone	330	50		µg/L	5	1/3/2021 2:07:30 PM	R74358
Carbon disulfide	ND	50		µg/L	5	1/3/2021 2:07:30 PM	R74358
Carbon Tetrachloride	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Chlorobenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Chloroethane	ND	10		µg/L	5	1/3/2021 2:07:30 PM	R74358
Chloroform	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Chloromethane	ND	15		µg/L	5	1/3/2021 2:07:30 PM	R74358
2-Chlorotoluene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
4-Chlorotoluene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
cis-1,2-DCE	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	1/3/2021 2:07:30 PM	R74358
Dibromochloromethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Dibromomethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2-Dichlorobenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,3-Dichlorobenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,4-Dichlorobenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Dichlorodifluoromethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,1-Dichloroethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-8 BP

Project: Former Y Station

Collection Date: 12/29/2020 1:30:00 PM

Lab ID: 2012C83-022

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2-Dichloropropane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,3-Dichloropropane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
2,2-Dichloropropane	ND	10		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,1-Dichloropropene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Hexachlorobutadiene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
2-Hexanone	170	50		µg/L	5	1/3/2021 2:07:30 PM	R74358
Isopropylbenzene	21	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
4-Isopropyltoluene	24	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
4-Methyl-2-pentanone	59	50		µg/L	5	1/3/2021 2:07:30 PM	R74358
Methylene Chloride	ND	15		µg/L	5	1/3/2021 2:07:30 PM	R74358
n-Butylbenzene	ND	15		µg/L	5	1/3/2021 2:07:30 PM	R74358
n-Propylbenzene	52	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
sec-Butylbenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Styrene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
tert-Butylbenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	1/3/2021 2:07:30 PM	R74358
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
trans-1,2-DCE	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,1,1-Trichloroethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,1,2-Trichloroethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Trichloroethene (TCE)	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Trichlorofluoromethane	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
1,2,3-Trichloropropane	ND	10		µg/L	5	1/3/2021 2:07:30 PM	R74358
Vinyl chloride	ND	5.0		µg/L	5	1/3/2021 2:07:30 PM	R74358
Xylenes, Total	1800	300		µg/L	200	1/4/2021 1:06:17 AM	R74358
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	5	1/3/2021 2:07:30 PM	R74358
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	1/3/2021 2:07:30 PM	R74358
Surr: Dibromofluoromethane	98.8	70-130		%Rec	5	1/3/2021 2:07:30 PM	R74358
Surr: Toluene-d8	101	70-130		%Rec	5	1/3/2021 2:07:30 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-11 Shallow HS

Project: Former Y Station

Collection Date: 12/29/2020 7:22:00 AM

Lab ID: 2012C83-023

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	0.11	0.093		µg/L	10	1/7/2021 9:01:45 AM	57340
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	3300	50		µg/L	50	1/4/2021 12:09:06 AM	R74358
Toluene	2.9	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Ethylbenzene	150	50		µg/L	50	1/4/2021 12:09:06 AM	R74358
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,2,4-Trimethylbenzene	90	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,3,5-Trimethylbenzene	27	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,2-Dichloroethane (EDC)	160	50		µg/L	50	1/4/2021 12:09:06 AM	R74358
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Naphthalene	31	2.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1-Methylnaphthalene	4.7	4.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
2-Methylnaphthalene	9.4	4.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Acetone	ND	10		µg/L	1	1/3/2021 2:36:09 PM	R74358
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Bromoform	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Bromomethane	ND	3.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
2-Butanone	ND	10		µg/L	1	1/3/2021 2:36:09 PM	R74358
Carbon disulfide	ND	10		µg/L	1	1/3/2021 2:36:09 PM	R74358
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Chloroethane	ND	2.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Chloroform	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Chloromethane	ND	3.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-11 Shallow HS

Project: Former Y Station

Collection Date: 12/29/2020 7:22:00 AM

Lab ID: 2012C83-023

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
2-Hexanone	ND	10		µg/L	1	1/3/2021 2:36:09 PM	R74358
Isopropylbenzene	5.8	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
4-Isopropyltoluene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
4-Methyl-2-pentanone	35	10		µg/L	1	1/3/2021 2:36:09 PM	R74358
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
n-Propylbenzene	12	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
sec-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Styrene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 2:36:09 PM	R74358
Xylenes, Total	24	1.5		µg/L	1	1/3/2021 2:36:09 PM	R74358
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/3/2021 2:36:09 PM	R74358
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	1/3/2021 2:36:09 PM	R74358
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/3/2021 2:36:09 PM	R74358
Surr: Toluene-d8	104	70-130		%Rec	1	1/3/2021 2:36:09 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-11 Center HS

Project: Former Y Station

Collection Date: 12/29/2020 10:05:00 AM

Lab ID: 2012C83-024

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	0.30	0.094		µg/L	10	1/7/2021 9:16:40 AM	57340
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	4400	50		µg/L	50	1/4/2021 12:37:39 AM	R74358
Toluene	2.8	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Ethylbenzene	310	50		µg/L	50	1/4/2021 12:37:39 AM	R74358
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,2,4-Trimethylbenzene	220	50		µg/L	50	1/4/2021 12:37:39 AM	R74358
1,3,5-Trimethylbenzene	56	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,2-Dichloroethane (EDC)	180	50		µg/L	50	1/4/2021 12:37:39 AM	R74358
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Naphthalene	53	2.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1-Methylnaphthalene	11	4.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
2-Methylnaphthalene	23	4.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Acetone	ND	10		µg/L	1	1/3/2021 3:04:50 PM	R74358
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Bromoform	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Bromomethane	ND	3.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
2-Butanone	ND	10		µg/L	1	1/3/2021 3:04:50 PM	R74358
Carbon disulfide	ND	10		µg/L	1	1/3/2021 3:04:50 PM	R74358
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Chloroethane	ND	2.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Chloroform	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Chloromethane	ND	3.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
	D Sample Diluted Due to Matrix
	H Holding times for preparation or analysis exceeded
	ND Not Detected at the Reporting Limit
	PQL Practical Quantitative Limit
	S % Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-11 Center HS

Project: Former Y Station

Collection Date: 12/29/2020 10:05:00 AM

Lab ID: 2012C83-024

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
2-Hexanone	ND	10		µg/L	1	1/3/2021 3:04:50 PM	R74358
Isopropylbenzene	13	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
4-Isopropyltoluene	1.0	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
4-Methyl-2-pentanone	42	10		µg/L	1	1/3/2021 3:04:50 PM	R74358
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
n-Propylbenzene	28	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
sec-Butylbenzene	1.2	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Styrene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 3:04:50 PM	R74358
Xylenes, Total	46	1.5		µg/L	1	1/3/2021 3:04:50 PM	R74358
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	1/3/2021 3:04:50 PM	R74358
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/3/2021 3:04:50 PM	R74358
Surr: Dibromofluoromethane	102	70-130		%Rec	1	1/3/2021 3:04:50 PM	R74358
Surr: Toluene-d8	101	70-130		%Rec	1	1/3/2021 3:04:50 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-11 BP

Project: Former Y Station

Collection Date: 12/29/2020 11:58:00 AM

Lab ID: 2012C83-025

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	0.93	0.19		µg/L	20	1/7/2021 9:31:35 AM	57340
NOTES:							
No trip blank was included with work order							
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	3400	50		µg/L	50	1/4/2021 1:34:58 AM	R74358
Toluene	5.1	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Ethylbenzene	280	50		µg/L	50	1/4/2021 1:34:58 AM	R74358
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,2,4-Trimethylbenzene	200	50		µg/L	50	1/4/2021 1:34:58 AM	R74358
1,3,5-Trimethylbenzene	54	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,2-Dichloroethane (EDC)	120	50		µg/L	50	1/4/2021 1:34:58 AM	R74358
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Naphthalene	51	2.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1-Methylnaphthalene	10	4.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
2-Methylnaphthalene	23	4.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Acetone	11	10		µg/L	1	1/3/2021 3:33:32 PM	R74358
Bromobenzene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Bromodichloromethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Bromoform	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Bromomethane	ND	3.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
2-Butanone	ND	10		µg/L	1	1/3/2021 3:33:32 PM	R74358
Carbon disulfide	ND	10		µg/L	1	1/3/2021 3:33:32 PM	R74358
Carbon Tetrachloride	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Chlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Chloroethane	ND	2.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Chloroform	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Chloromethane	ND	3.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
2-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
4-Chlorotoluene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
cis-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Dibromochloromethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Dibromomethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,1-Dichloroethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-11 BP

Project: Former Y Station

Collection Date: 12/29/2020 11:58:00 AM

Lab ID: 2012C83-025

Matrix: GROUNDWA

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloroethene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,2-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,3-Dichloropropane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
2,2-Dichloropropane	ND	2.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,1-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Hexachlorobutadiene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
2-Hexanone	ND	10		µg/L	1	1/3/2021 3:33:32 PM	R74358
Isopropylbenzene	13	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
4-Isopropyltoluene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
4-Methyl-2-pentanone	32	10		µg/L	1	1/3/2021 3:33:32 PM	R74358
Methylene Chloride	ND	3.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
n-Butylbenzene	ND	3.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
n-Propylbenzene	30	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
sec-Butylbenzene	1.1	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Styrene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
tert-Butylbenzene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
trans-1,2-DCE	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Trichlorofluoromethane	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Vinyl chloride	ND	1.0		µg/L	1	1/3/2021 3:33:32 PM	R74358
Xylenes, Total	450	75		µg/L	50	1/4/2021 1:34:58 AM	R74358
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/3/2021 3:33:32 PM	R74358
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	1/3/2021 3:33:32 PM	R74358
Surr: Dibromofluoromethane	102	70-130		%Rec	1	1/3/2021 3:33:32 PM	R74358
Surr: Toluene-d8	101	70-130		%Rec	1	1/3/2021 3:33:32 PM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Field Blank

Project: Former Y Station

Collection Date: 12/28/2020 1:38:00 PM

Lab ID: 2012C83-026

Matrix: AQUEOUS

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Toluene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Ethylbenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Naphthalene	ND	2.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1-Methylnaphthalene	ND	4.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
2-Methylnaphthalene	ND	4.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Acetone	ND	10		µg/L	1	1/4/2021 2:03:26 AM	R74358
Bromobenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Bromodichloromethane	2.6	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Bromoform	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Bromomethane	ND	3.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
2-Butanone	ND	10		µg/L	1	1/4/2021 2:03:26 AM	R74358
Carbon disulfide	ND	10		µg/L	1	1/4/2021 2:03:26 AM	R74358
Carbon Tetrachloride	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Chlorobenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Chloroethane	ND	2.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Chloroform	13	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Chloromethane	ND	3.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
2-Chlorotoluene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
4-Chlorotoluene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
cis-1,2-DCE	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Dibromochloromethane	1.5	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Dibromomethane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,1-Dichloroethane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,1-Dichloroethene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2-Dichloropropane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,3-Dichloropropane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
2,2-Dichloropropane	ND	2.0		µg/L	1	1/4/2021 2:03:26 AM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2012C83

Date Reported: 1/11/2021

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Field Blank

Project: Former Y Station

Collection Date: 12/28/2020 1:38:00 PM

Lab ID: 2012C83-026

Matrix: AQUEOUS

Received Date: 12/30/2020 7:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloropropene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Hexachlorobutadiene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
2-Hexanone	ND	10		µg/L	1	1/4/2021 2:03:26 AM	R74358
Isopropylbenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
4-Isopropyltoluene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
4-Methyl-2-pentanone	ND	10		µg/L	1	1/4/2021 2:03:26 AM	R74358
Methylene Chloride	ND	3.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
n-Butylbenzene	ND	3.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
n-Propylbenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
sec-Butylbenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Styrene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
tert-Butylbenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
trans-1,2-DCE	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Trichlorofluoromethane	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Vinyl chloride	ND	1.0		µg/L	1	1/4/2021 2:03:26 AM	R74358
Xylenes, Total	ND	1.5		µg/L	1	1/4/2021 2:03:26 AM	R74358
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/4/2021 2:03:26 AM	R74358
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/4/2021 2:03:26 AM	R74358
Surr: Dibromofluoromethane	101	70-130		%Rec	1	1/4/2021 2:03:26 AM	R74358
Surr: Toluene-d8	101	70-130		%Rec	1	1/4/2021 2:03:26 AM	R74358

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station

Sample ID: MB-57331	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 57331	RunNo: 74406								
Prep Date: 1/5/2021	Analysis Date: 1/5/2021	SeqNo: 2627077	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: MB-57331	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 57331	RunNo: 74406								
Prep Date: 1/5/2021	Analysis Date: 1/5/2021	SeqNo: 2627078	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-57331	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 57331	RunNo: 74406								
Prep Date: 1/5/2021	Analysis Date: 1/5/2021	SeqNo: 2627079	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.084	0.010	0.1000	0	83.9	70	130			

Sample ID: 2012C83-013BMS	SampType: MS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: BW-7R BP	Batch ID: 57331	RunNo: 74436								
Prep Date: 1/5/2021	Analysis Date: 1/6/2021	SeqNo: 2627999	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.32	0.019	0.09409	0.2911	34.4	65	135			S

Sample ID: 2012C83-013BMSD	SampType: MSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: BW-7R BP	Batch ID: 57331	RunNo: 74436								
Prep Date: 1/5/2021	Analysis Date: 1/6/2021	SeqNo: 2628000	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.38	0.019	0.09511	0.2911	88.8	65	135	14.9	20	

Sample ID: MB-57340	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 57340	RunNo: 74439								
Prep Date: 1/6/2021	Analysis Date: 1/6/2021	SeqNo: 2628027	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: LCS-57340	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 57340	RunNo: 74439								
Prep Date: 1/6/2021	Analysis Date: 1/6/2021	SeqNo: 2628028	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	116	70	130			

Sample ID: MB-57340	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 57340	RunNo: 74439								
Prep Date: 1/6/2021	Analysis Date: 1/6/2021	SeqNo: 2628029	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

NOTES:

No trip blank was included with work order

No trip blank was included with work order

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: 100ng lcs SampType: LCS TestCode: EPA Method 8260B: VOLATILES Client ID: LCSW Batch ID: R74342 RunNo: 74342 Prep Date: Analysis Date: 12/30/2020 SeqNo: 2624588 Units: µg/L										
Benzene	23	1.0	20.00	0	114	70	130			
Toluene	20	1.0	20.00	0	99.6	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.4	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.0	70	130			
Surr: Dibromofluoromethane	8.7		10.00		87.0	70	130			
Surr: Toluene-d8	8.9		10.00		89.2	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: PBW Batch ID: R74342 RunNo: 74342 Prep Date: Analysis Date: 12/30/2020 SeqNo: 2624589 Units: µg/L										
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R74342	RunNo: 74342								
Prep Date:	Analysis Date: 12/30/2020	SeqNo: 2624589	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R74342		RunNo: 74342							
Prep Date:	Analysis Date: 12/30/2020		SeqNo: 2624589		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.1	70	130			
Surr: Toluene-d8	9.3		10.00		93.0	70	130			

Sample ID: mb2	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: C74352		RunNo: 74352							
Prep Date:	Analysis Date: 1/1/2021		SeqNo: 2624843		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb2	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: C74352		RunNo: 74352							
Prep Date:	Analysis Date: 1/1/2021		SeqNo: 2624843				Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.4	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb2	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: C74352		RunNo: 74352							
Prep Date:	Analysis Date: 1/1/2021		SeqNo: 2624843		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.2		10.00		92.2	70	130			

Sample ID: 100ng lcs2	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: C74352		RunNo: 74352							
Prep Date:	Analysis Date: 1/1/2021		SeqNo: 2624844		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	20	1.0	20.00	0	99.1	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	100	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.1	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	8.9		10.00		88.6	70	130			
Surr: Toluene-d8	9.0		10.00		90.1	70	130			

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R74355		RunNo: 74355							
Prep Date:	Analysis Date: 1/2/2021		SeqNo: 2624948		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R74355	RunNo: 74355								
Prep Date:	Analysis Date: 1/2/2021	SeqNo: 2624948	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R74355		RunNo: 74355							
Prep Date:	Analysis Date: 1/2/2021		SeqNo: 2624948				Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.4	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.3		10.00		92.6	70	130			

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R74355		RunNo: 74355							
Prep Date:	Analysis Date: 1/2/2021		SeqNo: 2624949				Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	70	130			
Toluene	20	1.0	20.00	0	98.6	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	98.3	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		99.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.0	70	130			
Surr: Toluene-d8	9.0		10.00		90.4	70	130			

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R74358		RunNo: 74358							
Prep Date:	Analysis Date: 1/3/2021		SeqNo: 2625111				Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	88.7	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	89.8	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R74358	RunNo: 74358								
Prep Date:	Analysis Date: 1/3/2021	SeqNo: 2625111 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.4		10.00		94.2	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R74358	RunNo: 74358								
Prep Date:	Analysis Date: 1/3/2021	SeqNo: 2625112 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R74358		RunNo: 74358							
Prep Date:	Analysis Date: 1/3/2021		SeqNo: 2625112		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012C83

11-Jan-21

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: 2012c83-018a ms		SampType: MS		TestCode: EPA Method 8260B: VOLATILES						
Client ID: RW-4 HS		Batch ID: R74358		RunNo: 74358						
Prep Date:		Analysis Date: 1/3/2021		SeqNo: 2625122		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3700	10	200.0	3323	211	70	130			ES
Toluene	1300	10	200.0	1081	108	70	130			E
Chlorobenzene	220	10	200.0	0	110	70	130			
1,1-Dichloroethene	190	10	200.0	0	94.8	70	130			
Trichloroethene (TCE)	190	10	200.0	0	94.5	70	130			
Surr: 1,2-Dichloroethane-d4	110		100.0		105	70	130			
Surr: 4-Bromofluorobenzene	100		100.0		103	70	130			
Surr: Dibromofluoromethane	96		100.0		96.3	70	130			
Surr: Toluene-d8	98		100.0		98.0	70	130			

Sample ID: 2012c83-018a msd		SampType: MSD		TestCode: EPA Method 8260B: VOLATILES						
Client ID: RW-4 HS		Batch ID: R74358		RunNo: 74358						
Prep Date:		Analysis Date: 1/3/2021		SeqNo: 2625123		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3500	10	200.0	3323	79.9	70	130	7.27	20	E
Toluene	1200	10	200.0	1081	75.5	70	130	5.19	20	E
Chlorobenzene	200	10	200.0	0	102	70	130	7.35	20	
1,1-Dichloroethene	170	10	200.0	0	83.7	70	130	12.4	20	
Trichloroethene (TCE)	170	10	200.0	0	87.2	70	130	8.06	20	
Surr: 1,2-Dichloroethane-d4	100		100.0		104	70	130	0	0	
Surr: 4-Bromofluorobenzene	100		100.0		103	70	130	0	0	
Surr: Dibromofluoromethane	92		100.0		92.1	70	130	0	0	
Surr: Toluene-d8	99		100.0		99.0	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Sample Log-In Check List

Client Name: **Daniel B. Stephens & Ass** Work Order Number: **2012C83** RcptNo: **1**

Received By: **Isaiah Ortiz** 12/30/2020 7:51:00 AM *I-Ox*
 Completed By: **Isaiah Ortiz** 12/30/2020 8:47:58 AM *I-Ox*
 Reviewed By: *JR 12/30/20*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? UPS

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *JAL 12/30/20*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: Tom Golden Date: 12/30/20
 By Whom: DESIREE Via: eMail Phone Fax In Person
 Regarding: -017 sample date on VOAs 27th 3 CDC says 28th.
 Client Instructions: Go with CDC.

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Not Present			

Chain-of-Custody Record

Client: **DBS & A**

Mailing Address: **6020 Academy Rd NE
Albuquerque, NM 87109**

Phone #: **505-249-9402**

email or Fax#: **T.Goldene geo-logic.com**

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other

EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name: **Former Y Station**

Project #: **DB18.1157.00**

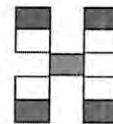
Project Manager: **T. Golden**

Sampler: **V. Moran**

On Ice: Yes No

of Coolers: **1**

Cooler Temp (including CF): **5.4°C ± 0** (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	9260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12-28-20	1037	GW	BW-4 HS ✓	510A	Varies	001				X				X		
"	0930		BW-7 HS ✓			002				X				X		
12-27-20	1642		BW-9 HS ✓			003				X				X		
"	1833		BW-10 HS ✓			004				X				X		
12-28-20	0730	(En)	BW-11 MW-12 HS ✓			005				X				X		
"	0824		MW-13 HS ✓			006				X				X		
12-27-20	1000		MW-14 HS ✓			007				X				X		
"	1544		MW-15 HS ✓			008				X				X		
"	1530		MW-17 HS ✓			009				X				X		
12-28-20	1011		RW-1 HS ✓			010				X				X		
12-27-20	1753		RW-2 HS ✓			011				X				X		
12-28-20	1157		BW-TR HS ✓			012				X				X		

Date: **12/28/20** Time: **15:15** Relinquished by: **[Signature]**

Date: _____ Time: _____ Relinquished by: _____

Received by: **UPS** Via: _____ Date: _____ Time: _____

Received by: **Inch ups** Via: _____ Date: **12/30/20** Time: **0751**

Remarks: **Page 1 of 3**
(12)

Chain-of-Custody Record

Client: DBS/A

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name:
Former Y Station

Project #:
DB18.1157.00

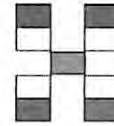
Project Manager:
T. Golden

Sampler: V. Morgan

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 5.4 ± 0 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12-28-20	1457	GW	BW-7R BP ✓	5 VOA	Varies	2012C83 013				X				X		
"	17:00		MW-16 HS ✓	5 VOA		014				X				X		
"	18:55		MW-16 BP ✓			015				X				X		
"	19:25		RW-3 HS ✓			016				X				X		
"	20:39		RW-3 BP ✓			017				X				X		
"	14:26		RW-4 HS ✓			018				X				X		
"	15:48		RW-4 BP ✓			019				X				X		
12-29-20	0812		BW-8 Shallow HS ✓			020				X				X		
"	12:30		BW-8 Center HS ✓			021				X				X		
"	13:30		BW-8 BP ✓			022				X				X		
"	07:22		MW-11 Shallow HS ✓			023				X				X		
"	10:05		MW-11 Center HS ✓			024				X				X		

Date: 12-29-20 Time: 1515 Relinquished by: [Signature]

Date: 12/30/20 Time: 0751 Received by: [Signature] Via: UPS

Remarks: Page 2 of 3

Chain-of-Custody Record

Client: BSJA

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time:

Standard Rush

Project Name:
Fernes Y Station

Project #:
DB18. 1157.00

Project Manager:
T. Golden

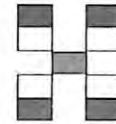
Sampler:
P. Morgan

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 5.4 ± 0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No
<u>12-24-20</u>	<u>1158</u>	<u>GW</u>	<u>MW-11 BP ✓</u>	<u>5 VOA</u>	<u>Varies</u>	<u>025</u>
<u>12-28-20</u>	<u>1338</u>	<u>DI</u>	<u>Field Blank ✓</u>	<u>3 rot</u>	<u>H₂O</u>	<u>026</u>
<i>[Large handwritten signature]</i>						



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA) <u>8260B</u>	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		

Date: 12-29-20 Time: 1515 Relinquished by: [Signature]

Received by: _____ Via: _____ Date: _____ Time: _____

Remarks: Page 3 of 3

Date: _____ Time: _____ Relinquished by: _____

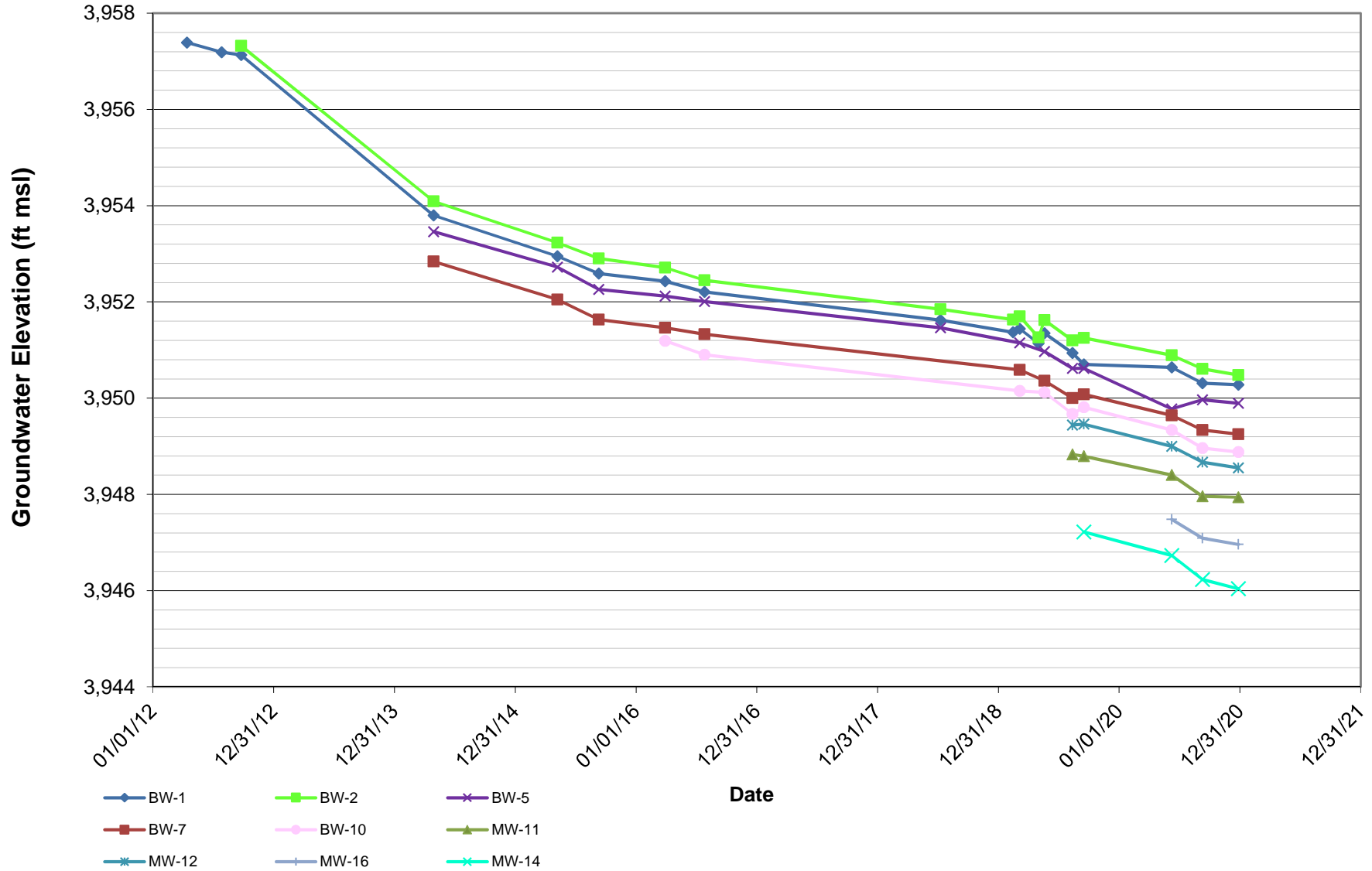
Received by: TQ Via: ups Date: 12/30/20 Time: 6757

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Appendix D
Time-Series Graphs

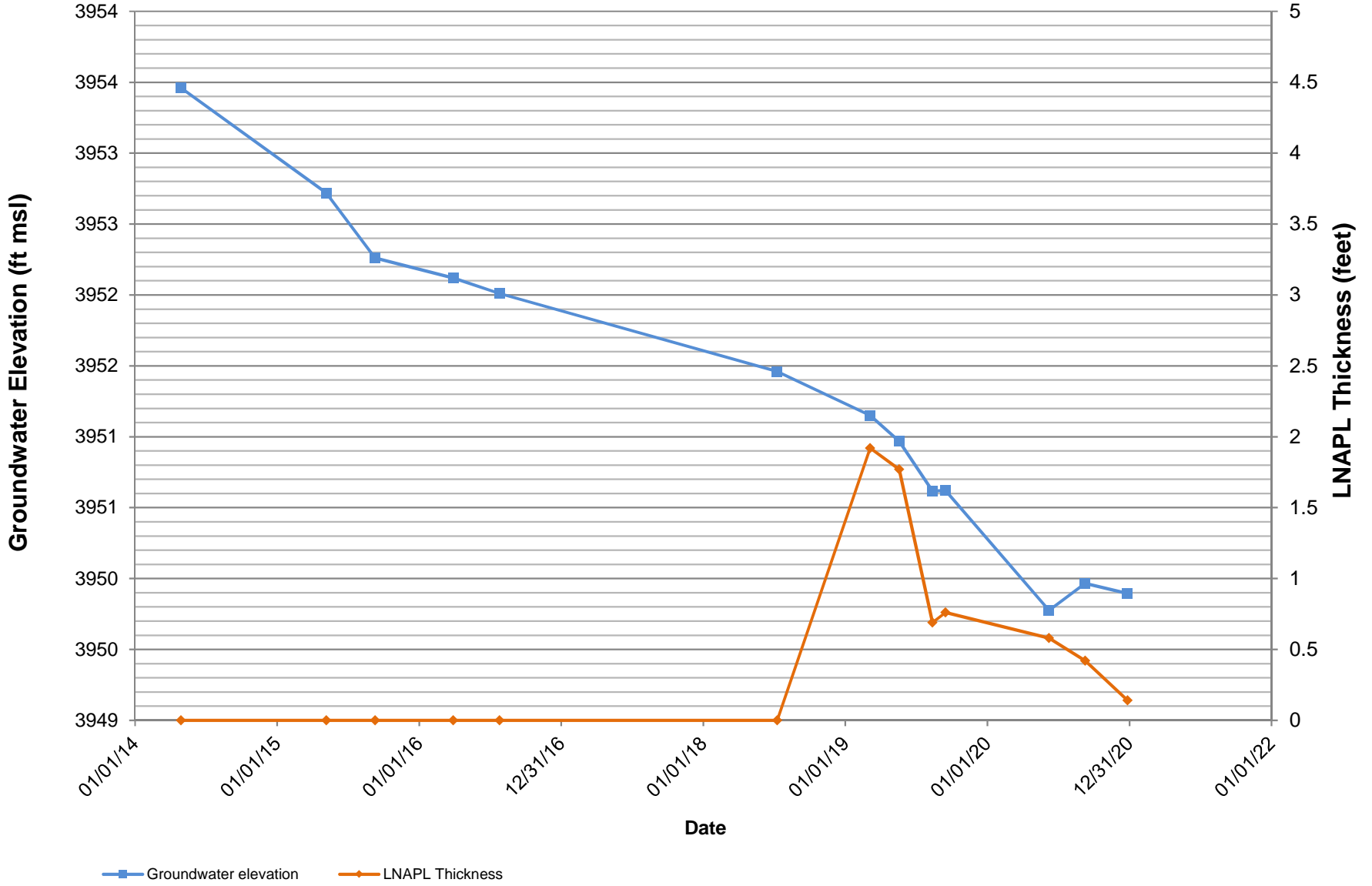
Groundwater Elevations

Former Y Station State Lead Site, Clovis, New Mexico



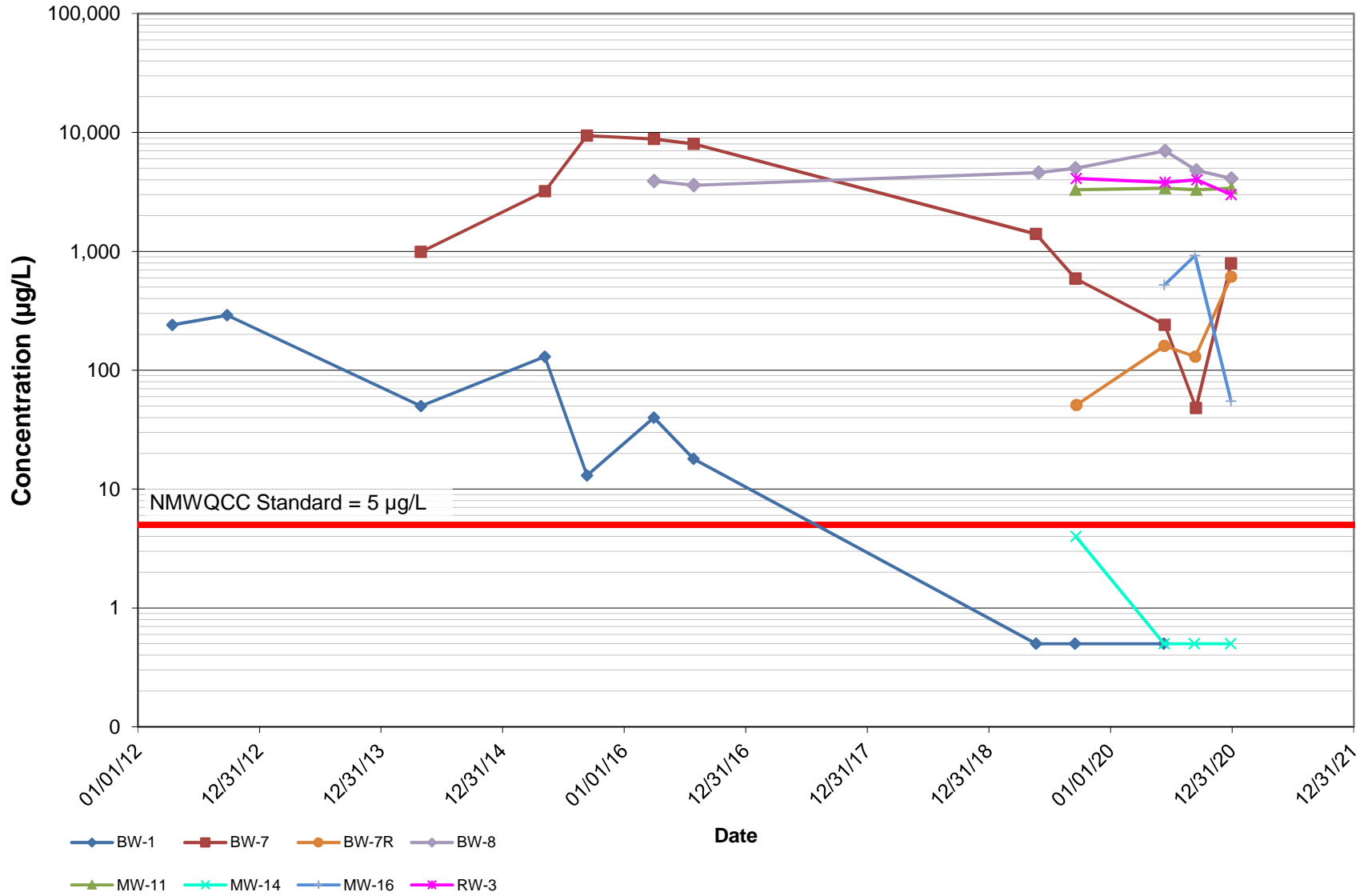
BW-5 Fluid Levels

Former Y Station State Lead Site, Clovis, New Mexico



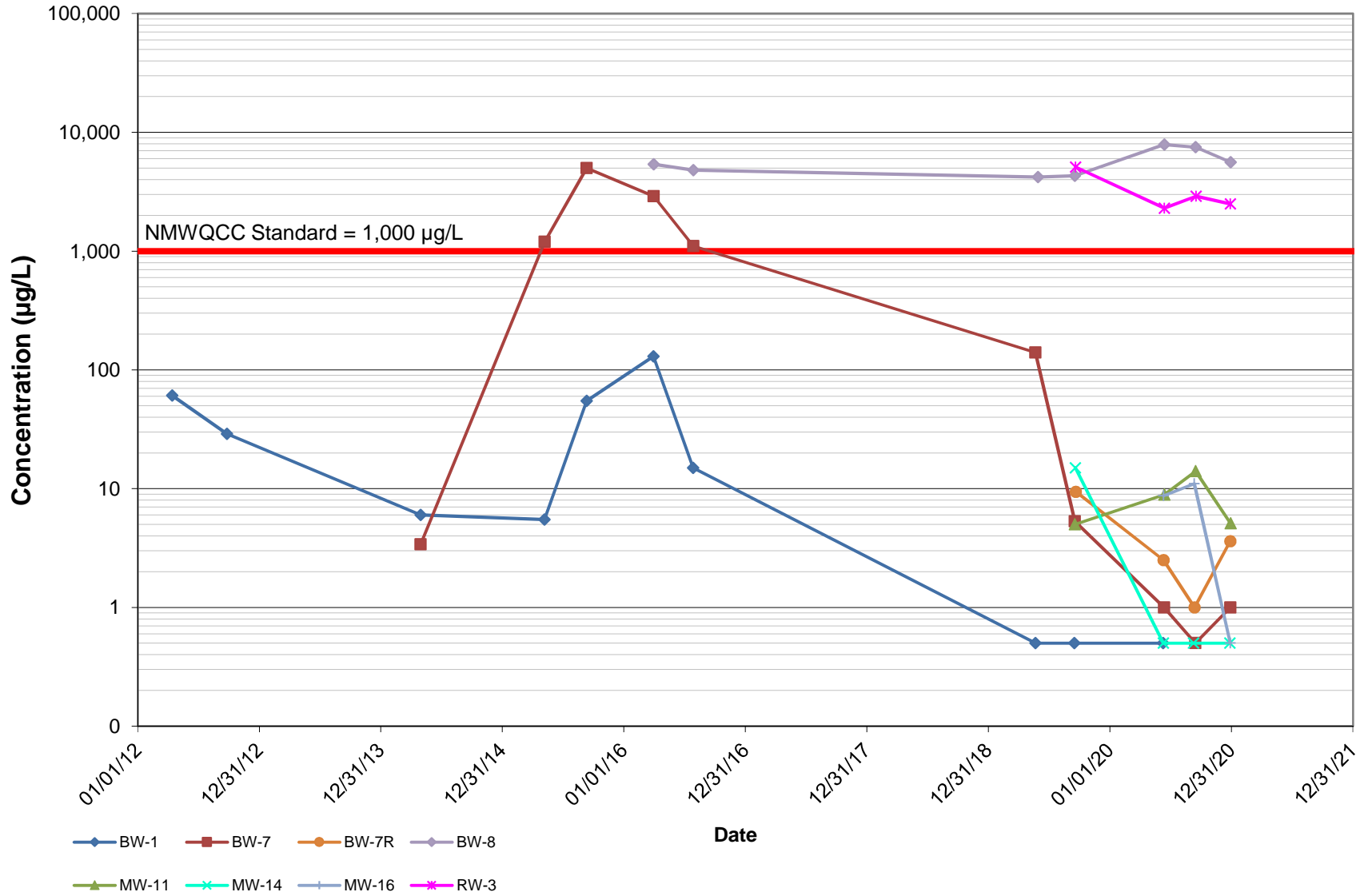
Benzene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



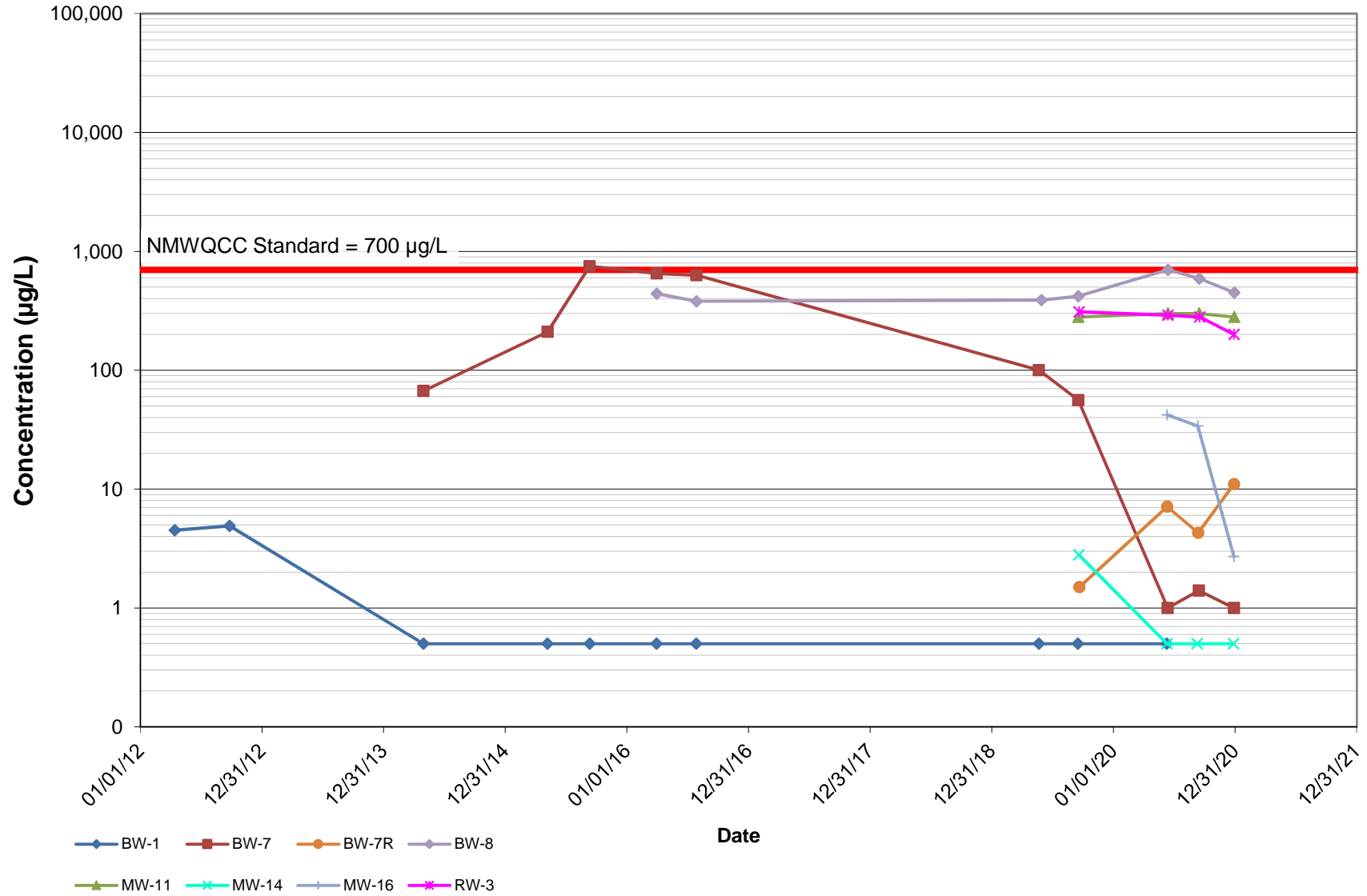
Toluene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



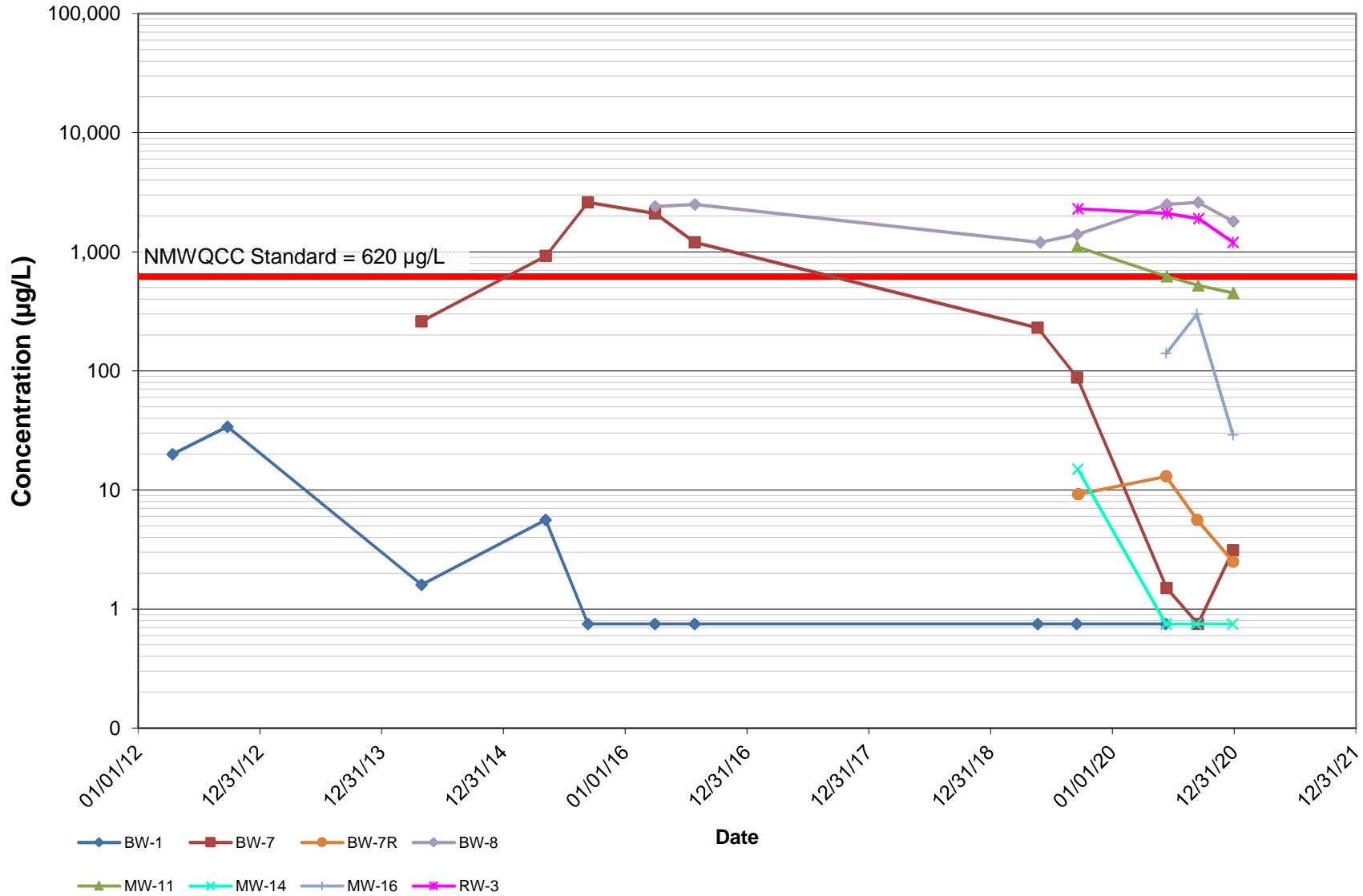
Ethylbenzene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



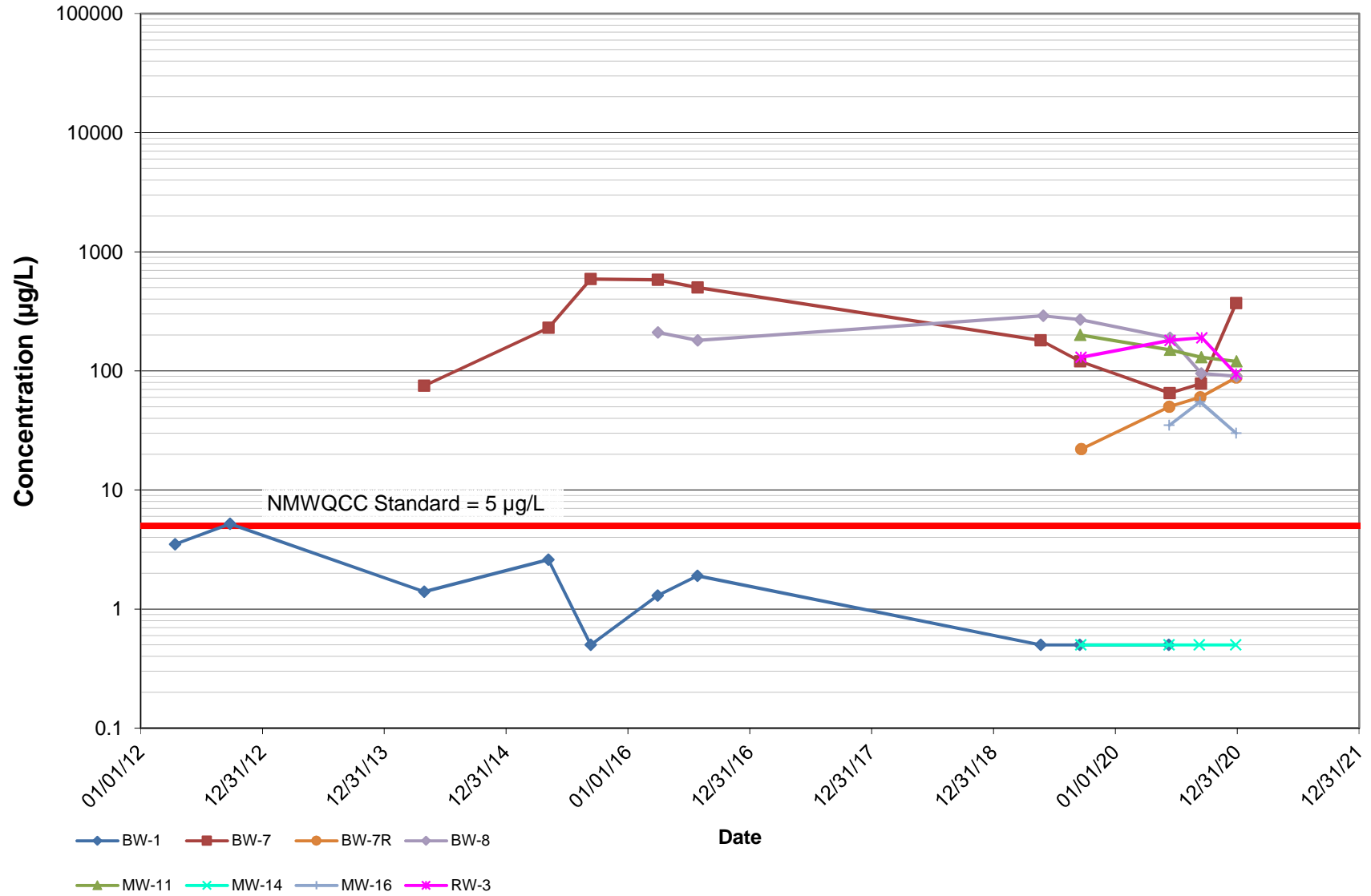
Total Xylene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



EDC Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



Total Naphthalene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico

