



July 24, 2019

Ms. Susan von Gonten, Project Manager  
New Mexico Environment Department  
Petroleum Storage Tank Bureau  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505

**RE: GROUNDWATER MONITORING REPORT,  
Fairview Station, Española, New Mexico  
Facility #28779 SID #4657 WPID #3997-3**

Dear Ms. von Gonten:

Souder, Miller & Associates (SMA) is submitting the attached report for groundwater monitoring at the Fairview Station site. This report was prepared for submittal to the New Mexico Environment Department (NMED), Petroleum Storage Tank Bureau (PSTB) pursuant to the work plan dated July 17, 2018 and approved by the NMED PSTB on September 14, 2018 (WPID #3997-3).

Sincerely,  
SOUDER, MILLER & ASSOCIATES

Alan Eschenbacher, P.G.  
Senior Geoscientist

enclosure

**COVER PAGE**  
**GROUNDWATER MONITORING REPORT**

**1. Site Name:**

Fairview Station

**2. Responsible party:**

NMED PSTB State Lead Program

**3. Responsible party mailing address (list contact person if different):**

2905 Rodeo Park Drive, Building 1  
Santa Fe, New Mexico 87505

**4. Facility Number:**

Facility #28779, Release ID #4657

**5. Address/legal description:**

1626 North Riverside Drive  
Española, New Mexico 87532

**6. Author/consulting company:**

Alan Eschenbacher, Souder, Miller & Associates

**7. Date of report:**

July 24, 2019

**8. Date of confirmation of release or date USTB was notified of release:**

A release from the UST system at the Fairview Station was first suspected during the removal of the underground storage tanks in July 2012. Following tank removal and receipt of analytical data, a release from the site was confirmed in a letter to Fairview Station dated August 6, 2012.



## STATEMENT OF FAMILIARITY

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

**Signature:**



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**Name:**

Alan Eschenbacher, P.G.

**Affiliation:**

Souder, Miller & Associates

**Title:**

Senior Geoscientist

**Date:**

July 24, 2019

## 1.0 Introduction

### 1.1 Scope of Work

This report is submitted pursuant to the July 17, 2018 cost schedule and work plan approved by the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) on September 14, 2018 (WPID# 3997-3).

### 1.2 Monitoring Event Highlights

Fluid level gauging was conducted on 28 monitoring wells at the site. In general, groundwater elevations have increased an average of 1.24 feet since the previous gauging event in July 2017. The potentiometric surface generated using all gauged wells that did not contain measurable NAPL slopes towards the southwest at 0.0031 feet/foot.

During the March 2019 monitoring event, 12 monitoring wells contained non-aqueous phase petroleum liquid (NAPL), and 13 monitoring wells were sampled and analyzed for dissolved phase petroleum hydrocarbons. Of the 13 monitoring wells sampled, seven wells contained contaminants of concern (COC) above the New Mexico groundwater quality regulations (20.6.2.3103 NMAC) or New Mexico Petroleum Storage Tank Regulation (20.5.119 NMAC, NMPSTR) standards in groundwater. Six monitoring wells sampled had concentrations of COCs below groundwater quality regulations and/or below laboratory practical quantitation limits (PQL).

NAPL was recovered from nine monitoring wells by adsorbent socks, passive skimmers, hand bailing and pumping. A total of 31 gallons of NAPL was recovered from site monitoring wells during the monitoring event.

## 2.0 Site Background

The Fairview Station State Lead site consists of comingled releases from two petroleum storage tank (PST) sites. These PST sites include the Fairview Station site located at 1626 North Riverside Drive and a former gas station (currently a Dairy Queen) located north of Fairview Station at 1702 North Riverside Drive in Española, New Mexico. The site is located within the City of Española and on Ohkay Owingeh Pueblo lands. The release at the Fairview Station was confirmed during the Minimum Site Assessment investigation in 2013 by Terracon Consultants Inc. (Terracon). The release at the Dairy Queen was discovered in 2013 and 2014 during investigations to define the extent of contamination from Fairview Station. EA Engineering, Science, & Technology, Inc. (EA) conducted additional investigations, groundwater monitoring and NAPL recovery in 2015 and 2016. Contaminated soil, groundwater and NAPL are present on both sites.

The Fairview Station was developed in the 1970s. It initially had two underground storage tanks (UST) which were replaced with three USTs in 1989. These USTs were removed in July 2012 with notable soil contamination. PSTB confirmed a release on August 9, 2012. Aerial photographs taken by New Mexico Department of Transportation (NMDOT) indicate the former gas station on



the Dairy Queen property was present in the 1960s. Two dispensers and a likely aboveground storage tank (AST) are visible in these photographs. Figure 1 illustrates the site and surrounding area.

During the previous groundwater monitoring event in July 2017, NAPL was found in eleven site monitoring wells. During the event 17.89 gallons of NAPL were recovered by hand bailing, passive skimmers and absorbent socks for a total of approximately 245 gallons of NAPL recovered since 2016 (cumulative NAPL recovery not reported prior to 2016). Five of nine monitoring wells sampled in July 2017 contained dissolved phase contamination above applicable standards. The dissolved phase contaminant plume was not defined laterally to the north, northeast, south, and southwest.

A summary of recent corrective action activities conducted at the site include:

- July 2012, UST system removed from Fairview Station property;
- August 6, 2012, confirmed release letter issued;
- March 12, 2013, Terracon submitted Minimum Site Assessment (MSA) report to NMED;
- December 23, 2013, Terracon submitted Addendum MSA Report to NMED;
- October 13, 2014, Terracon submitted a second Addendum MSA Report to NMED;
- January 19, 2015, Terracon submitted Groundwater Monitoring Report to NMED;
- April 28, 2015, NMED designated the site State Lead Status;
- January 2016, EA conducted groundwater monitoring and NAPL recovery at the site;
- July 2016, EA installed seven additional monitoring wells, conducted groundwater monitoring and NAPL recovery;
- September 2017, EA conducted most recent groundwater monitoring and NAPL recovery at the site.

### **3.0 Completed Tasks**

#### **3.0.1 Description of remediation system and date installed.**

Not applicable, no remediation system has been installed.

#### **3.0.2 Description of activities performed to keep system operating properly including: inspections, maintenance procedures and modifications, if any.**

Not applicable

#### **3.1 Volatile Organic Groundwater Monitoring**

Groundwater samples were collected from 13 site monitoring wells on March 19-22 and 26, 2019. Field parameters, including pH, eC, and temperature, were collected from each well after purging three well casing volumes. Figure 1 illustrates the location of the three



monitoring wells, Figure 5a illustrates dissolved-phase benzene contaminant concentrations, and Figure 5b illustrates dissolved-phase total naphthalenes contaminant concentrations. Recent and historical groundwater analytical results are provided in Table 4a, and field parameter measurements are summarized in Table 4b. Procedures for sampling the monitoring wells are described in Appendix 1. Laboratory results are included in Appendix 3.

Monitoring well MW-4, located east of the Fairview Station former tank pit area, contained 3.3 micrograms per liter ( $\mu\text{g/L}$ ) methyl tert butyl ether (MTBE) which is below the NMPSTR standard of 100  $\mu\text{g/L}$ . Concentrations of MTBE have decreased relative to concentrations measured in MW-4 during the July, 2017 monitoring event.

Monitoring well MW-5, located south of the former dispensers on the Fairview Station site, contained 7,900  $\mu\text{g/L}$  benzene, 660  $\mu\text{g/L}$  toluene, 540  $\mu\text{g/L}$  ethylbenzene, 700 total xylenes, 1,700  $\mu\text{g/L}$  MTBE, 25  $\mu\text{g/L}$  1,2-dichloroethane (EDC), and 83  $\mu\text{g/L}$  total naphthalenes. Benzene, total xylenes, MTBE, EDC, and total naphthalenes exceed their respective NMAC 20.6.2.3103 and NMPSTR standards. Dissolved phase contaminant concentrations have decreased in MW-5 since the previous sampling event in July 2017.

Monitoring well MW-7, located immediately west of the former dispenser islands on Fairview Station, contained 7,300  $\mu\text{g/L}$ , 1,300  $\mu\text{g/L}$  toluene, 460  $\mu\text{g/L}$  ethylbenzene, 890  $\mu\text{g/L}$  total xylenes, 4,500  $\mu\text{g/L}$  MTBE, and 132  $\mu\text{g/L}$  total naphthalenes. Benzene, toluene, total xylenes, MTBE, and total naphthalenes exceed their respective NMAC 20.6.2.3103 and NMPSTR standards. The dissolved phase contaminant concentrations in MW-7 had variable trends compared to the previous sampling event in July 2017.

Monitoring well MW-10, located in the southwest corner of the Dairy Queen property and south of the former dispensers on the Dairy Queen property, contained 6,600  $\mu\text{g/L}$ , 850  $\mu\text{g/L}$  toluene, 1,200  $\mu\text{g/L}$  ethylbenzene, 2,300  $\mu\text{g/L}$  total xylenes, 76  $\mu\text{g/L}$  MTBE, 51  $\mu\text{g/L}$  EDC and 600  $\mu\text{g/L}$  total naphthalenes. Benzene, ethylbenzene, total xylenes, EDC, and total naphthalenes exceed their respective NMAC 20.6.2.3103 standards. Monitoring well MW-10 contained NAPL during the recent monitoring events and was not sampled.

Monitoring well MW-13, located south of the Fairview Station former dispensers on the adjacent property to the south, contained 220  $\mu\text{g/L}$  benzene and 21  $\mu\text{g/L}$  ethylbenzene. Benzene exceed the NMAC 20.6.2.3103 standard of 5  $\mu\text{g/L}$ . The dissolved phase contaminant concentrations decreased in monitoring well MW-13 compared to the previous sampling event in July 2017.

Monitoring well MW-16, located south of the Fairview Station former tank basin and southeast of the former dispensers, contained 440  $\mu\text{g/L}$  benzene, 290  $\mu\text{g/L}$  toluene, 390  $\mu\text{g/L}$  ethylbenzene, 510  $\mu\text{g/L}$  total xylenes, 15  $\mu\text{g/L}$  MTBE and 72  $\mu\text{g/L}$  ethylbenzene. Benzene and total naphthalenes exceed their respective NMAC 20.6.2.3103 standards. The dissolved phase contaminant concentrations decreased in monitoring well MW-16 compared to the previous sampling event in July 2017.



The sample collected from monitoring well MW-17, located in the southeast corner of the Dairy Queen property, did not contain any COCs above laboratory PQLs. Therefore, no COCs exceeded NMAC 20.6.2.3103 or NMPSTR standards. COCs have not been detected in monitoring well MW-17, therefore, there is no observable trend for the well.

Monitoring well MW-19, located up-gradient of the site and on the property north of Dairy Queen, contained 5.7 µg/L benzene which exceeds the NMAC 20.6.2.3103 standard of 5 µg/L. The dissolved phase contaminant concentrations decreased in monitoring well MW-19 compared to the previous sampling event in July 2017.

The sample collected from monitoring well MW-20, located west of the Dairy Queen property and Riverside Drive, did not contain any contaminants of concern (COC) above laboratory practical quantitation limits (PQL). Therefore, no COCs exceeded NMAC 20.6.2.3103 or NMPSTR standards. COCs have not been detected in monitoring well MW-20, therefore, there is no observable trend for the well.

The sample collected from monitoring well MW-21, located west of the Dairy Queen property and Riverside Drive, did not contain any contaminants of concern (COC) above laboratory practical quantitation limits (PQL). Therefore, no COCs exceeded NMAC 20.6.2.3103 or NMPSTR standards. COCs have not been detected in monitoring well MW-21 during recent monitoring events, therefore, there is no observable trend for the well.

Monitoring well MW-22, located south of Fairview Station on the adjacent property to the south, contained 11 µg/L ethylbenzene is below the NMAC 20.6.2.3103 standard of 750 µg/L. This is the first sampling event for monitoring well MW-22, therefore, no contaminant concentration trends are available.

The sample collected from monitoring well MW-23, located south of Fairview Station on the adjacent property to the south, did not contain any contaminants of concern (COC) above laboratory practical quantitation limits (PQL). Therefore, no COCs exceeded NMAC 20.6.2.3103 or NMPSTR standards. This is the first sampling event for monitoring well MW-23, therefore, no contaminant concentration trends are available.

The sample collected from monitoring well MW-26, located in the northeast corner of the Dairy Queen property, did not contain any contaminants of concern (COC) above laboratory practical quantitation limits (PQL). Therefore, no COCs exceeded NMAC 20.6.2.3103 or NMPSTR standards. This is the first sampling event for monitoring well MW-26, therefore, no contaminant concentration trends are available.

Monitoring well MW-27, located south of the Dairy Queen building and northeast of the presumed location of the former AST, contained 150 µg/L benzene, 30 µg/L toluene, 2.3 µg/L ethylbenzene, 100 µg/L total xylenes, and 132 µg/L total naphthalenes. Benzene and total naphthalenes exceed their respective NMAC 20.6.2.3103 standards. This is the first sampling event for monitoring well MW-27, therefore, no contaminant concentration trends are available.



### 3.2 NAPL Measurements and Removal

NAPL was detected in twelve site monitoring wells during the March 2019 monitoring event. Several monitoring wells had adsorbent socks or passive NAPL skimmers installed in them. The adsorbent socks were removed the wells prior to measuring NAPL thickness and either hand bailing or pumping NAPL from the wells. NAPL skimmers were emptied and returned to the wells after hand bailing or pumping NAPL. During the groundwater monitoring event, 31 gallons of NAPL were recovered from nine site monitoring wells. NAPL was recovered from several monitoring wells twice during the monitoring event, while none was recovered from the three four-inch diameter newly installed wells. Tabulations of the NAPL recovery efforts are provided as Table 3. Figure 4 shows the contoured apparent NAPL thickness. Summaries of the observed NAPL and recovery this monitoring event are provided below:

NAPL was measured and recovered twice from monitoring well MW-2 (March 15 and 19, 2019). On March 15, the NAPL thickness was 3.46 feet and 5.25 gallons were recovered via a passive skimmer and pumping. On March 19, the NAPL thickness was 4.60 feet and 5.5 gallons were recovered from MW-2 via skimming and pumping.

NAPL was measured and recovered twice from monitoring well MW-3 (March 15 and 19, 2019). On March 15, the NAPL thickness was 5.03 feet and 2.75 gallons were recovered via a passive skimmer and pumping. On March 19, the NAPL thickness was 5.18 feet and 2.0 gallons were recovered from MW-3 via skimming and pumping.

An adsorbent sock was removed from monitoring well MW-6 and a NAPL sheen was observed on the water. No significant NAPL was recovered from monitoring well MW-6.

NAPL was measured and recovered twice from monitoring well MW-8 (March 15 and 19, 2019). On March 15, the NAPL thickness was 3.98 feet and 1.75 gallons were recovered by pumping. On March 19, the NAPL thickness was 4.45 feet and 1.5 gallons were recovered from MW-8 by pumping.

Monitoring well MW-9 contained 0.13 feet of NAPL. A negligible amount of NAPL was removed by an adsorbent sock and hand bailing.

An adsorbent sock was removed from monitoring well MW-10 and no NAPL was observed in the well. No NAPL was recovered from monitoring well MW-10.

NAPL was measured and recovered twice from monitoring well MW-11 (March 15 and 19, 2019). On March 15, the NAPL thickness was 1.93 feet and 2.0 gallons were recovered by pumping. On March 19, the NAPL thickness was 1.77 feet and 1.5 gallons were recovered from MW-11 by pumping.

Monitoring well MW-14 contained 0.96 feet of NAPL on March 15, 2019, and 0.5 gallons were recovered by hand bailing and removing an adsorbent sock.

NAPL was measured and recovered twice from monitoring well MW-15 (March 15 and 19, 2019). On March 15, the NAPL thickness was 5.14 feet and 4.25 gallons were



recovered by pumping. On March 19, the NAPL thickness was 1.61 feet and 0.75 gallons were recovered from MW-15 by pumping.

Monitoring well MW-18 contained 2.70 feet of NAPL on March 15, 2019, and 0.75 gallons were recovered from MW-18 by pumping.

Monitoring well MW-29 contained 0.09 feet of NAPL during the monitoring event. On May 9, 2019, monitoring well MW-29 contained 1.71 feet of NAPL.

Monitoring well MW-30 contained 4.88 feet of NAPL during the monitoring event.

Monitoring well MW-31 contained a sheen of NAPL during the monitoring event. On May 9, 2019, monitoring well MW-31 contained 3.24 feet of NAPL.

### 3.3 Groundwater Measurements

Depth to NAPL and groundwater measurements were collected from all located site monitoring wells except monitoring well MW-12 which does not have a current access agreement. A potentiometric surface map is included in Figure 2. Historical and recent water level measurements at the site are summarized in Table 1.

The average groundwater elevation at the site has increased by 1.24 feet relative to measurements collected during the July 2017 monitoring event. The calculated groundwater flow direction is to the southwest at a gradient of 0.0031 feet per foot (ft/ft). The groundwater gradient is generally consistent with that determined previously at the site. The potentiometric surface presented as Figure 2 is based on data from monitoring well that do not contain NAPL.

## 4.0 Summary and Conclusions

### 4.1 Summary of completed tasks and discussion of trends/contamination

Fluid level gauging was conducted on 28 monitoring wells at the site. In general, groundwater elevations have increased an average of 1.24 feet since the previous gauging event in July 2017. The potentiometric surface generated using all gauged wells that did not contain measurable NAPL slopes towards the southwest at 0.0031 feet/foot.

During the March 2019 monitoring event, 12 monitoring wells contained non-aqueous phase petroleum liquid (NAPL), and 13 monitoring wells were sampled and analyzed for dissolved phase petroleum hydrocarbons. Of the 13 monitoring wells sampled, seven wells contained COCs above the New Mexico groundwater quality regulations 20.6.2.3103 NMAC or NMPSTR standards in groundwater. Six monitoring wells sampled had concentrations of COCs below groundwater quality regulations and/or below PQLs.

NAPL was recovered from nine monitoring wells by adsorbent socks, passive skimmers, hand bailing and pumping. A total of 31 gallons of NAPL was recovered from site monitoring wells during the monitoring event.



In general, dissolved phase contaminant concentrations have decreased at the site since the July 2017 sampling event. However, NAPL thicknesses increased significantly in five wells and decreased in three wells. The most notable NAPL thickness increases occurred in monitoring wells MW-15 and MW-18 at the down-gradient and up-gradient edges of the NAPL plume, respectively. NAPL in monitoring well MW-15 increased from 1.21 to 5.14 feet from July 2017 to March 2019. NAPL in monitoring well MW-18 increased from 0.19 to 2.70 feet from July 2017 to March 2019. These increases may indicate a lateral expansion of the plume in the down- and up-gradient directions.

#### **4.2 Ongoing assessment of remediation system**

Not applicable – no remediation system is active at the site.

#### **4.3 Recommendations**

SMA recommends the following at the Fairview Station site:

1. Install two additional monitoring wells at the Wendy's property (anticipated down-gradient edge of the dissolved phase contaminant plume). The Wendy's Corporation had provided a verbal approval for access, however, a signed access agreement was not obtained in a timely manner.
2. Perform six months of monthly NAPL recovery events to recover mobile NAPL during the FRP preparation/approval process.
3. Approve the preparation of the Final Remediation Plan to initiate remediation at the site.

## Figures

1. Site Map
2. Potentiometric Surface Map - March 2019
3. Soil Contamination Map – March 2019 Data
4. NAPL Thickness Map – March 2019
- 5a. Dissolved Phase Benzene Concentration Map – March 2019
- 5b. Dissolved Phase Total Naphthalenes Concentration Map – March 2019

## Tables

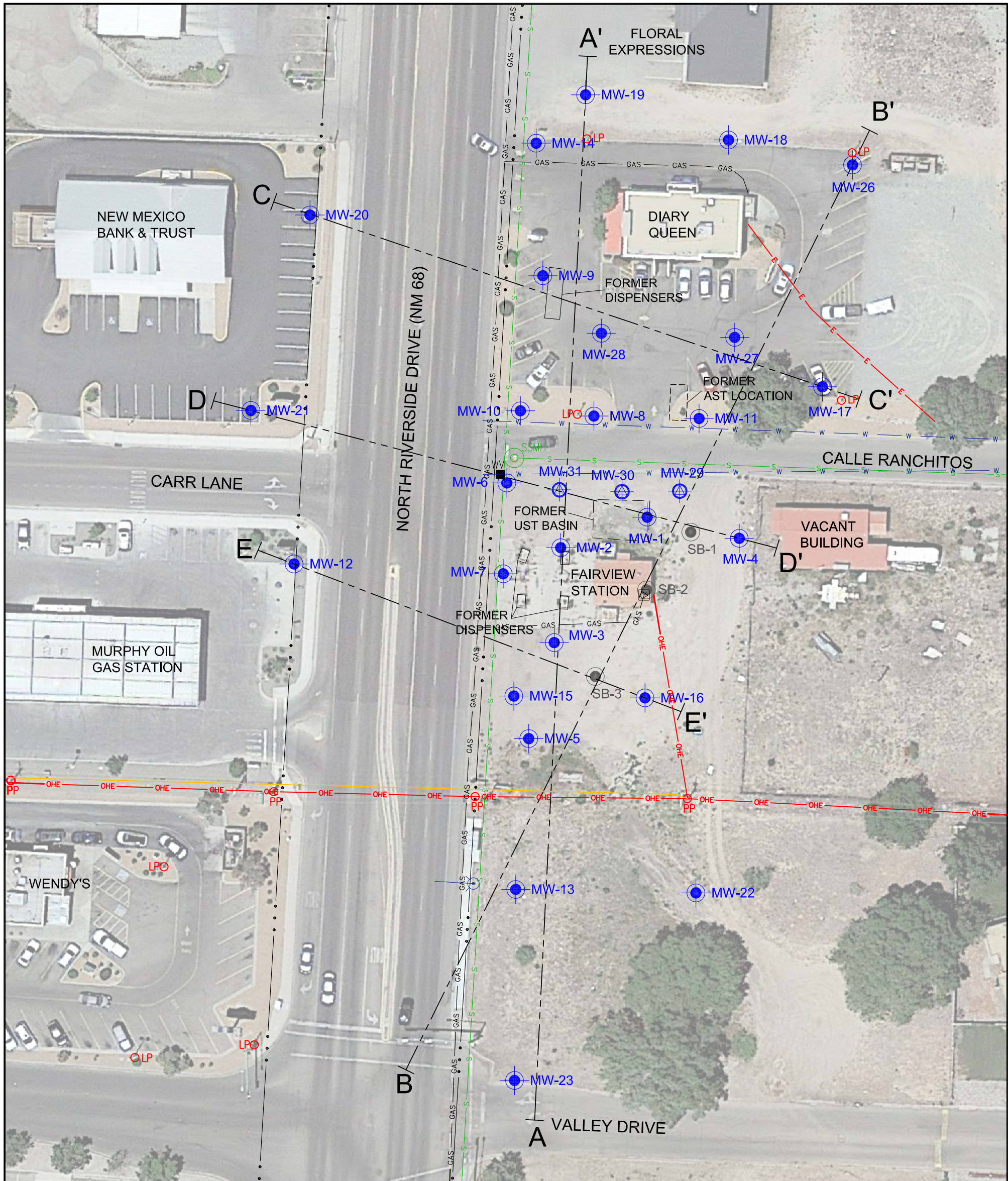
1. Summary of Fluid Gauging Data
2. Summary of Soil Sample Results
3. Summary of NAPL Recovery
- 4a. Summary of Groundwater Sample Analytical Results
- 4b. Summary of Groundwater Sample Field Measurements

## Appendices

1. Sampling protocol
2. Field Notes
3. Laboratory Analytical Reports

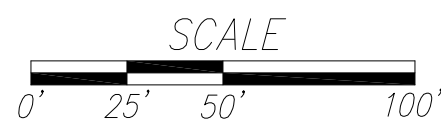


## Figures



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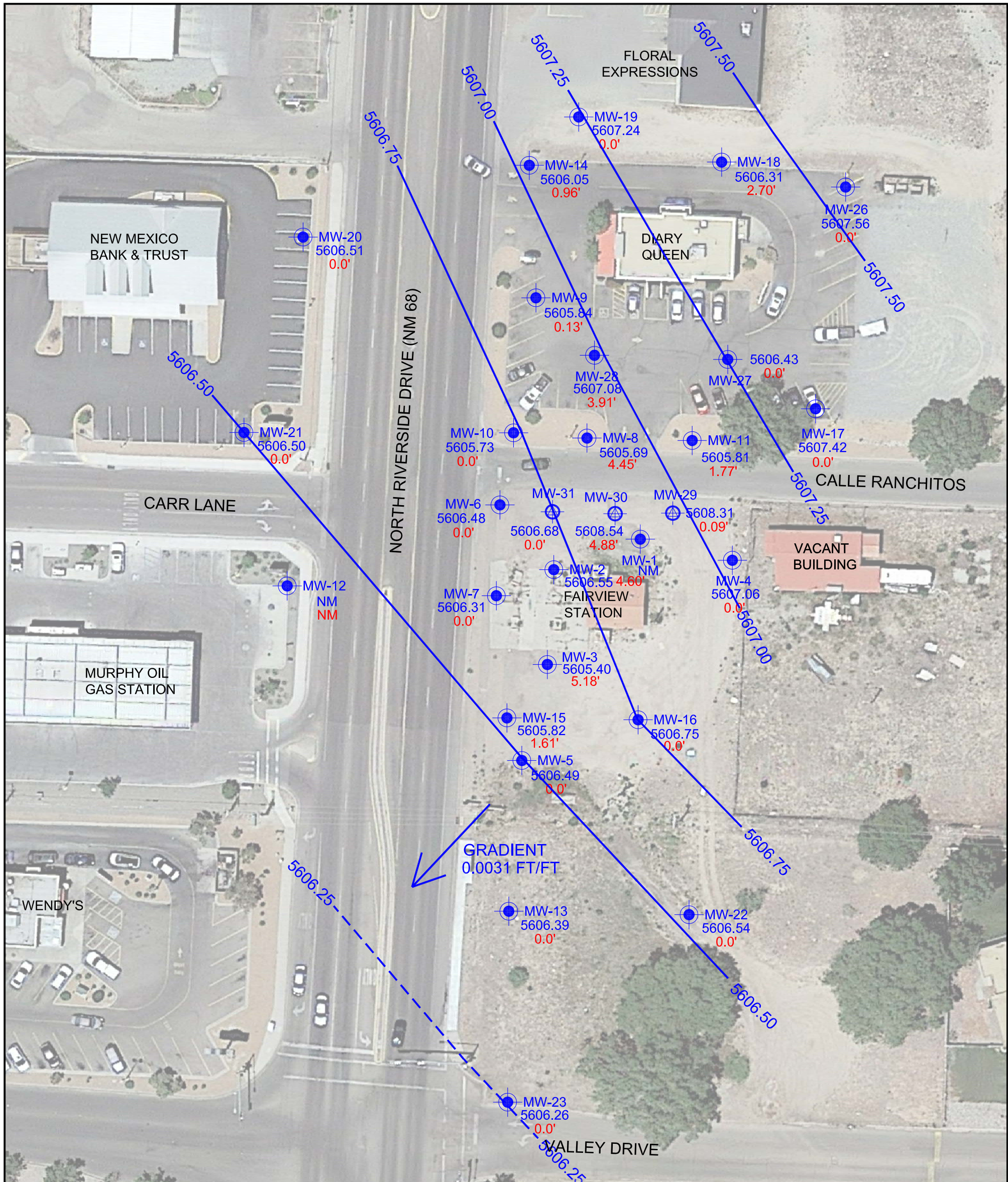
- |       |  |                         |          |                           |
|-------|--|-------------------------|----------|---------------------------|
| MW-7  |  | 2" MONITORING WELL      | A-----A' | LINE OF CROSS SECTION     |
| MW-30 |  | 4" MONITORING WELL      | — w —    | WATER LINE                |
| SB-1  |  | SOIL BORING LOCATION    | — FO —   | FIBER OPTIC LINE          |
| SSMH  |  | SANITARY SEWER MAN HOLE | — OHE —  | OVERHEAD ELECTRIC LINE    |
| WV    |  | WATER VALVE             | — E —    | UNDERGROUND ELECTRIC LINE |
|       |  | FIRE HYDRANT            | — S —    | SEWER PIPE                |
|       |  | NATURAL GAS METER       | — GAS —  | NATURAL GAS LINE          |
| PPO   |  | POWER POLE              | — ··· —  | NMDOT RIGHT-OF-WAY        |
| LPO   |  | LIGHT POLE              |          |                           |



**SOUDER, MILLER & ASSOCIATES**  
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**SITE MAP  
 FAIRVIEW STATION  
 ESPAÑOLA, NEW MEXICO**

Designed AJE	Drawn AJE	Checked SAM
Date: JUNE, 2019		
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Sheet: <b>Figure 1</b>		



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MW-7 2" MONITORING WELL

MW-30 4" MONITORING WELL

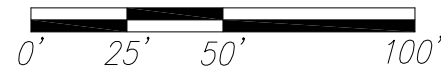
5605.17 POTENTIOMETRIC SURFACE ELEVATION IN FEET ABOVE SEA LEVEL

0.0' NAPL THICKNESS IN FEET

POTENTIOMETRIC SURFACE CONTOUR IN FEET ABOVE SEA LEVEL



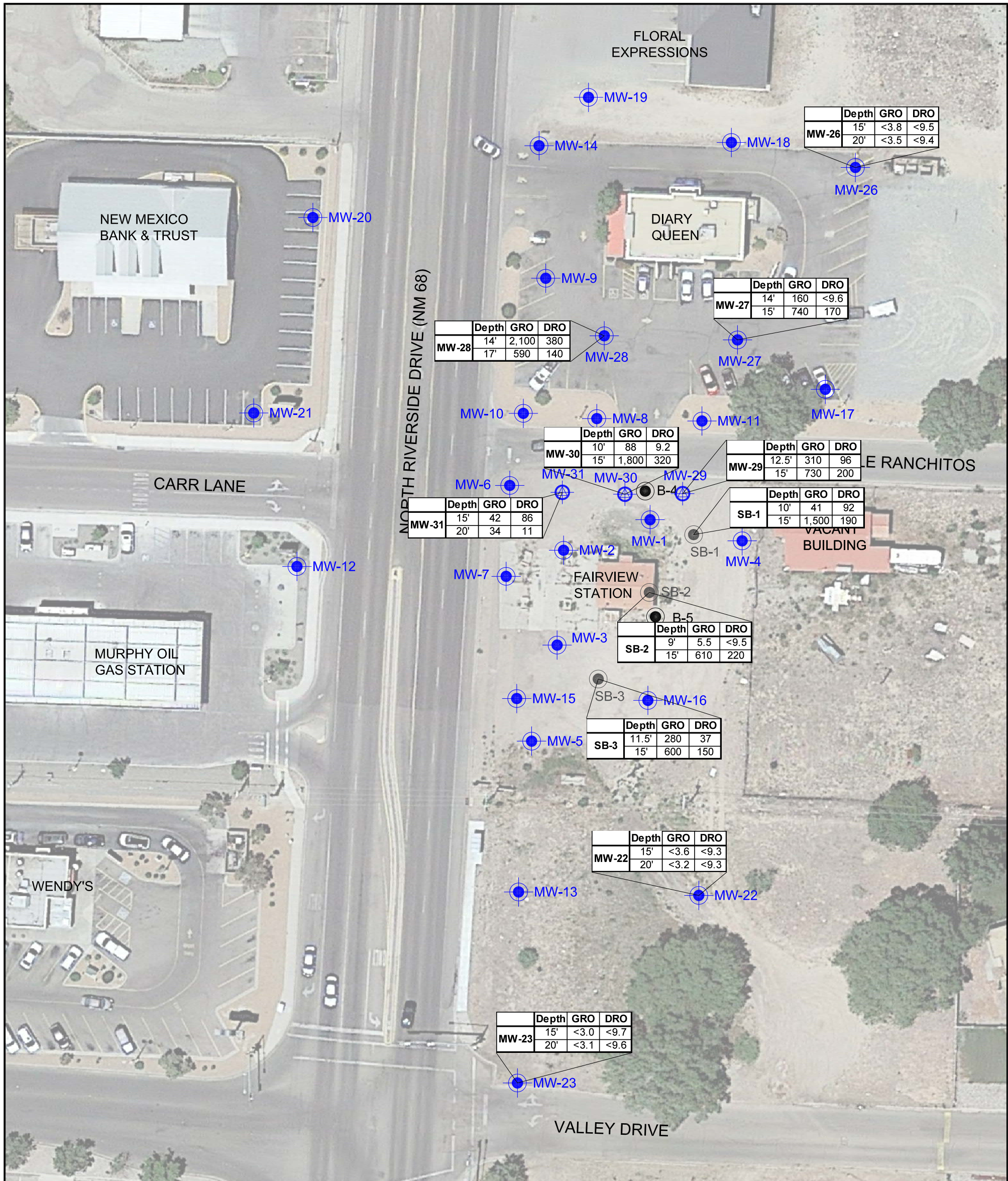
SCALE



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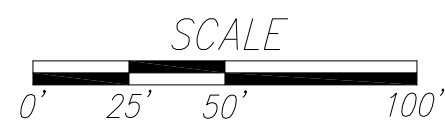
**POTENTIOMETRIC SURFACE MAP - MARCH 2019**  
**FAIRVIEW STATION**  
**ESPAÑOLA, NEW MEXICO**

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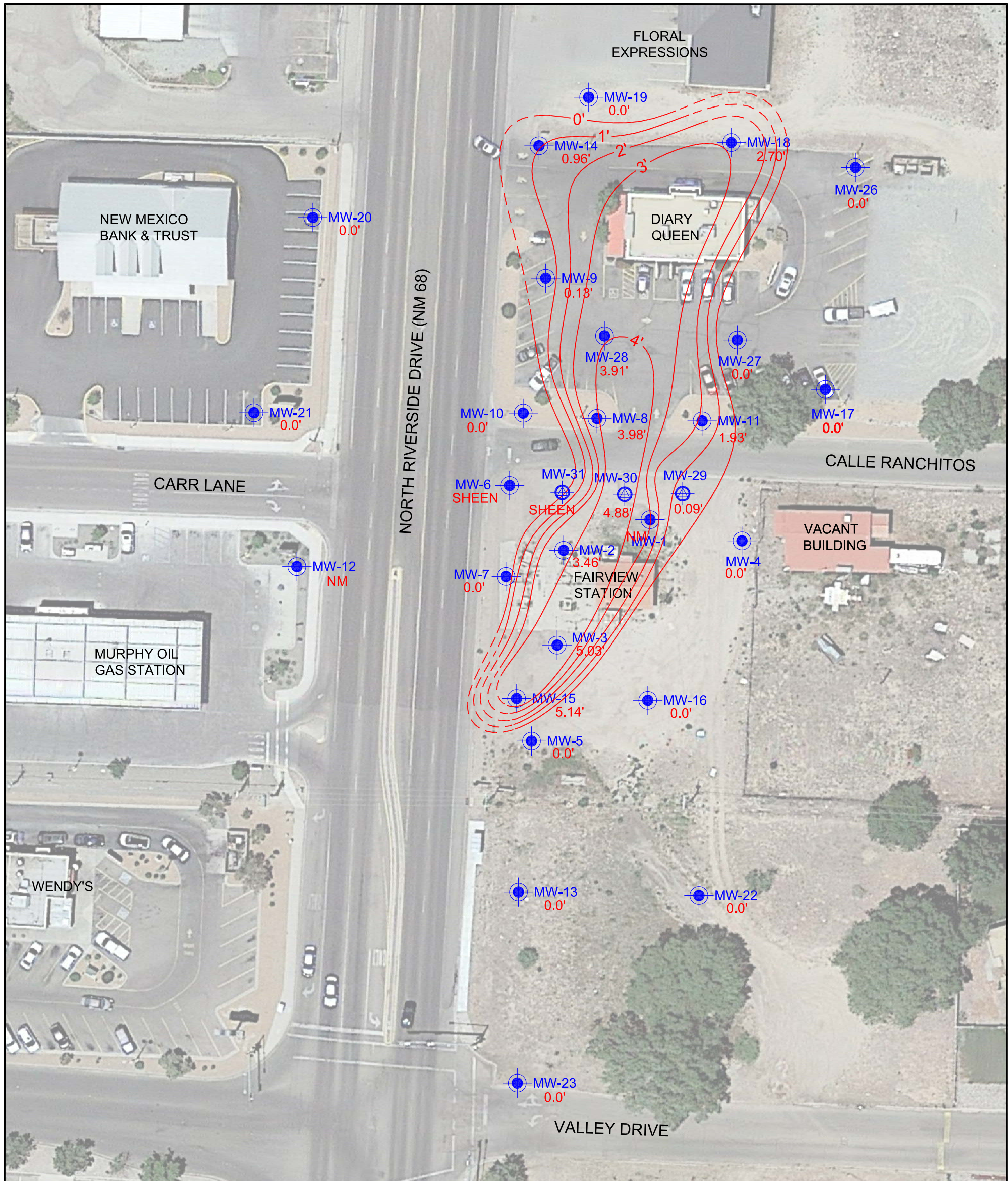
- MW-7 2" MONITORING WELL
- MW-30 4" MONITORING WELL
- SB-1 SOIL BORING LOCATION
- GRO = TOTAL PETROLEUM HYDROCARBONS, GASOLINE RANGE ORGANICS CONCENTRATION IN mg/kg
- DRO = TOTAL PETROLEUM HYDROCARBONS, DIESEL RANGE ORGANICS CONCENTRATION IN mg/kg
- < ANALYTICAL LABORATORY RESULT BELOW PRACTICAL QUANTITATION LIMIT



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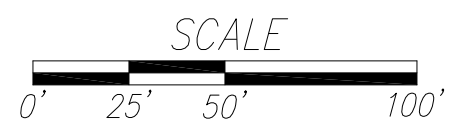
**SOIL CONTAMINATION MAP - MARCH 2019 DATA**  
**FAIRVIEW STATION**  
**ESPAÑOLA, NEW MEXICO**

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- MW-7 2" MONITORING WELL
- MW-30 4" MONITORING WELL
- 2.89' NAPL THICKNESS IN FEET
- 3' NAPL THICKNESS CONTOUR IN FEET

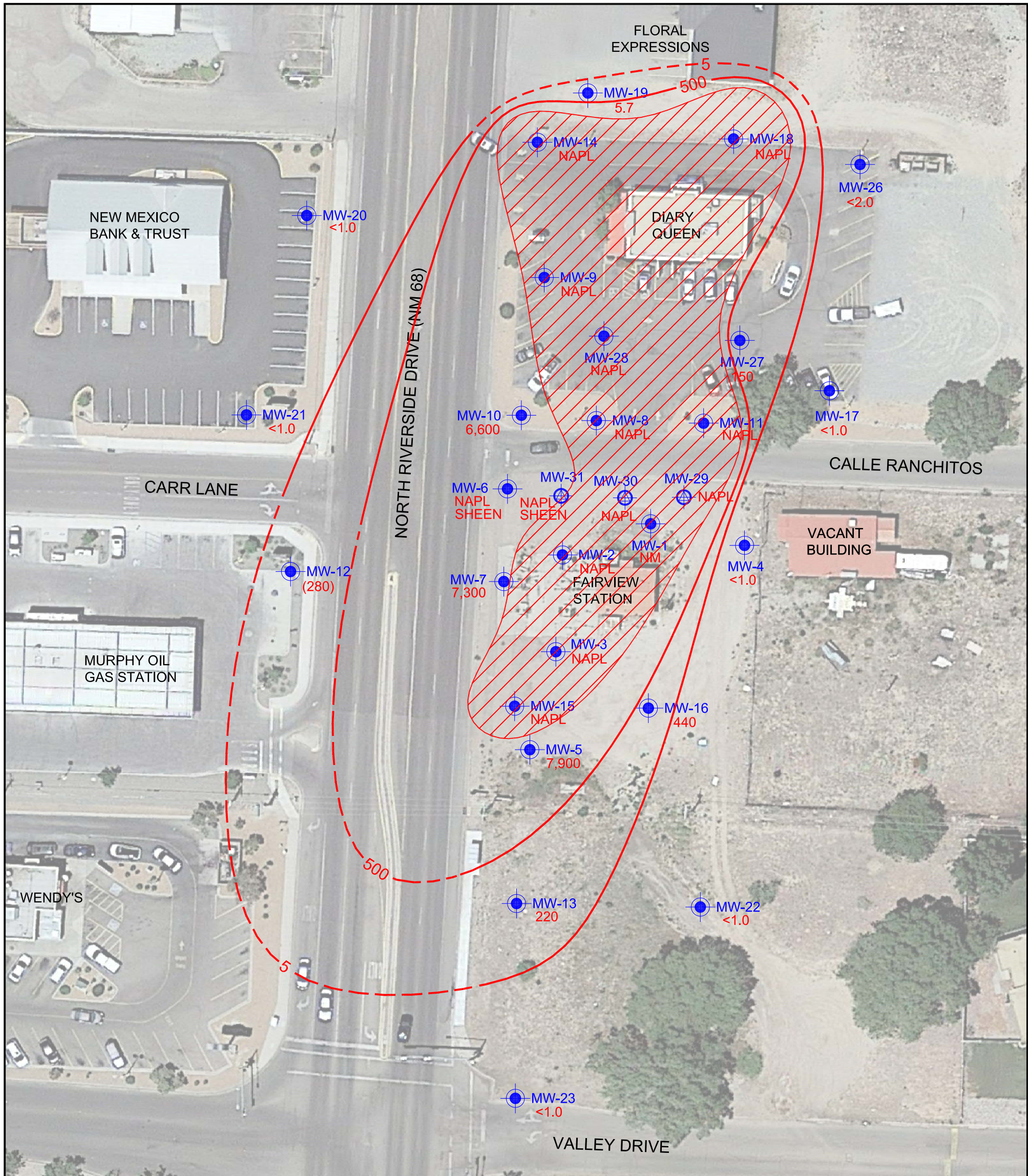


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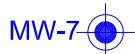
**NON-AQUEOUS PHASE LIQUID MAP - MARCH 2019**  
**FAIRVIEW STATION**  
**ESPAÑOLA, NEW MEXICO**

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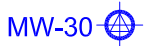




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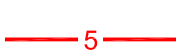
2" MONITORING WELL



4" MONITORING WELL

1,700

DISSOLVED PHASE BENZENE CONCENTRATION IN ug/L DATA IN PARENTHESES FROM 2017



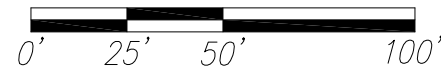
DISSOLVED PHASE BENZENE PLUME CONTOURS IN ug/L DASHED WHERE INFERRED



AREA OF NAPL PLUME



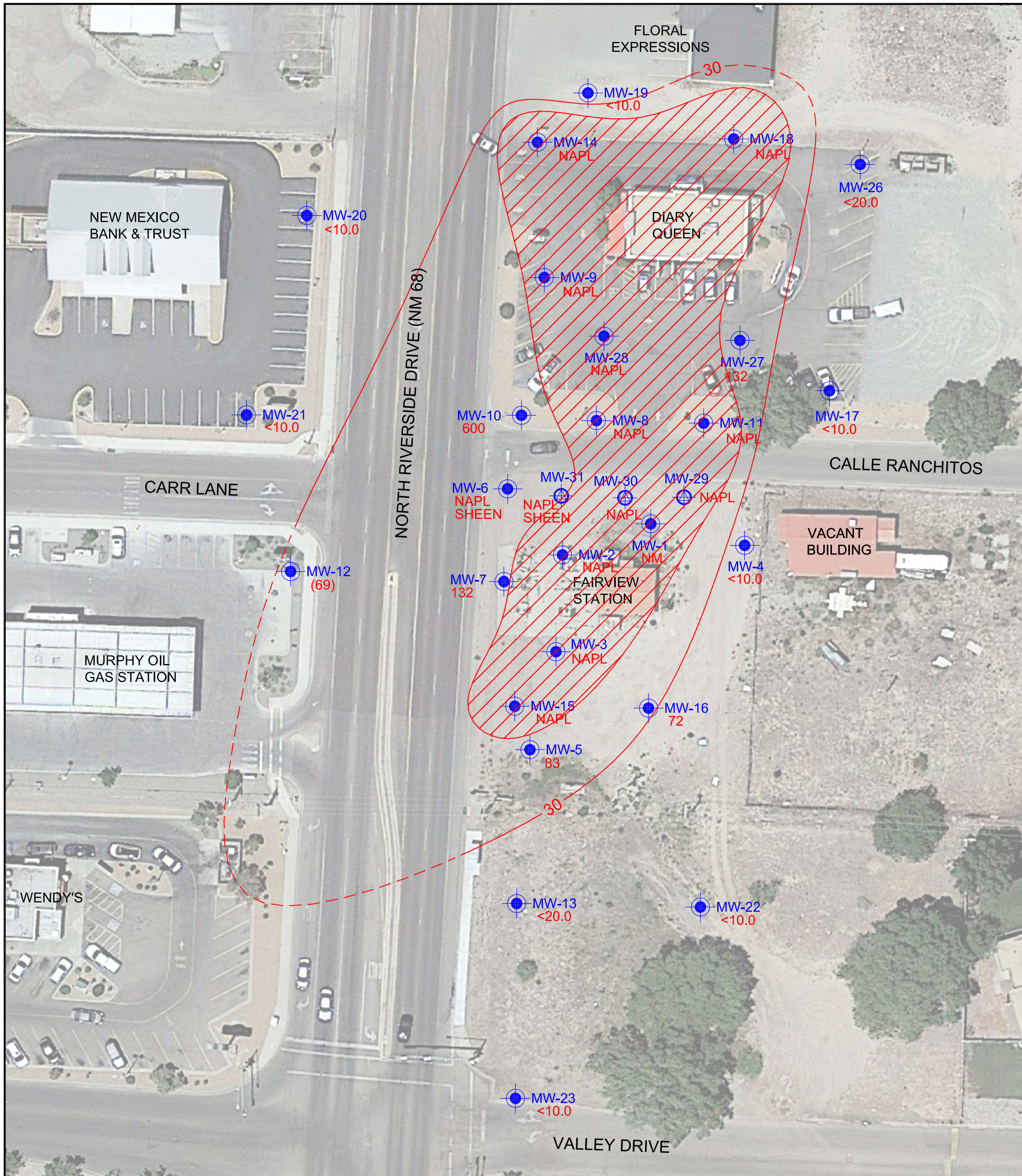
SCALE








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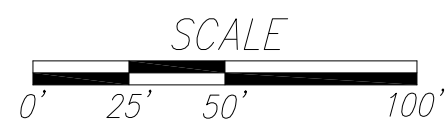
**DISSOLVED PHASE BENZENE MAP - JULY 2017 DATA**  
**FAIRVIEW STATION**  
**ESPAÑOLA, NEW MEXICO**

Designed AJE	Drawn AJE	Checked SAM
Date: JUNE 2019		
Scale: Horiz: 1" = 50'		
Vert: N/A		
Project No:		
Sheet: <b>Figure 5a</b>		



LEGEND

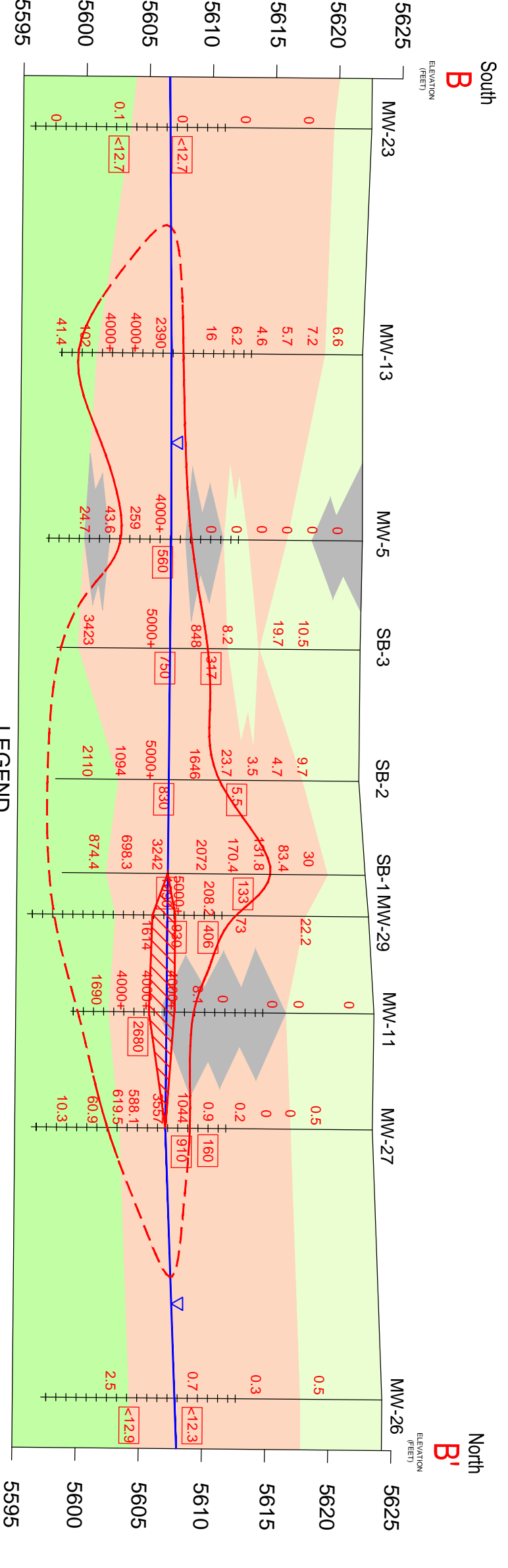
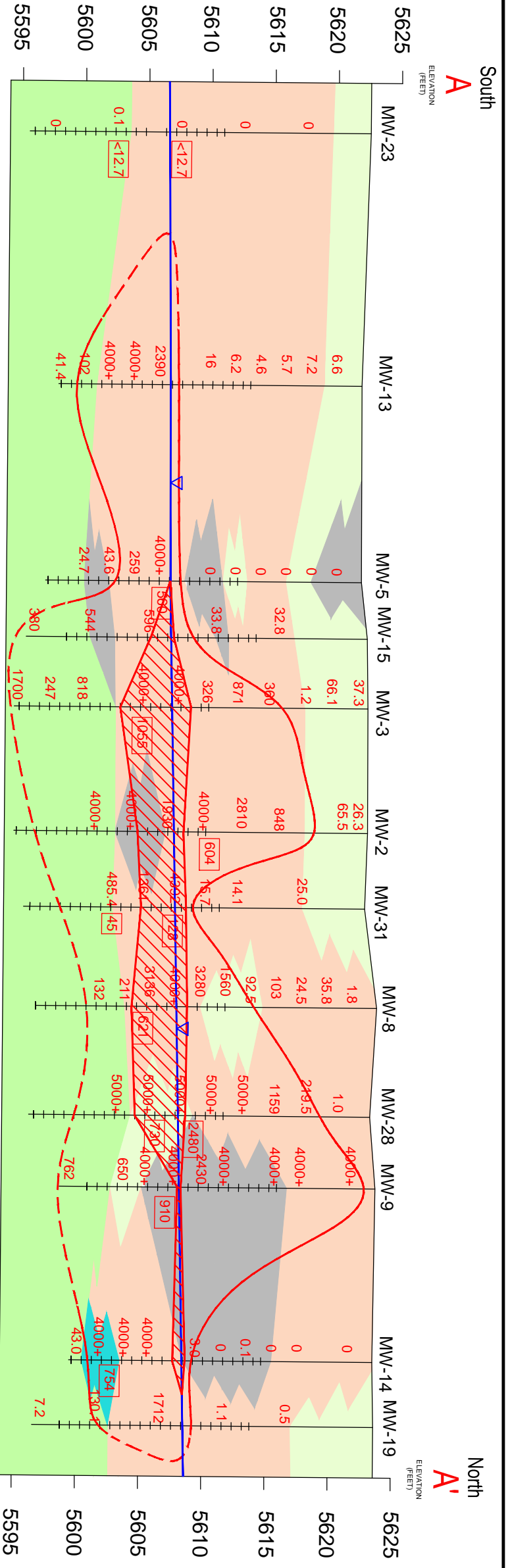
-  MW-7 2" MONITORING WELL
-  MW-30 4" MONITORING WELL
-  300 DISSOLVED PHASE TOTAL NAPHTHALENES CONCENTRATION IN ug/L DATA IN PARENTHESES FROM 2017
-  30 DISSOLVED PHASE TOTAL NAPHTHALENES CONTOUR IN ug/L DASHED WHERE INFERRED
-  AREA OF NAPL PLUME



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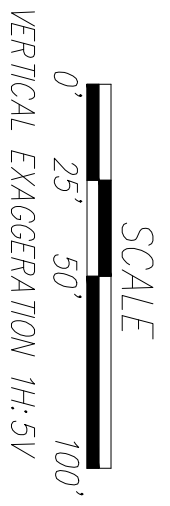
**DISSOLVED PHASE TOTAL NAPHTHALENES MAP - MARCH 2019 DATA**  
**FAIRVIEW STATION**  
**ESPAÑOLA, NEW MEXICO**

Designed AJE	Drawn AJE	Checked SAM
Date: JUNE 2019		
Scale: Horiz: 1" = 50'		
Vert: N/A		
Project No:		
Sheet <b>Figure 5b</b>		



- LEGEND**
- Predominantly Clay
  - Predominantly Sand
  - Predominantly Silt
  - Predominantly Sand and Gravel
  - Sediment with Caliche Cement

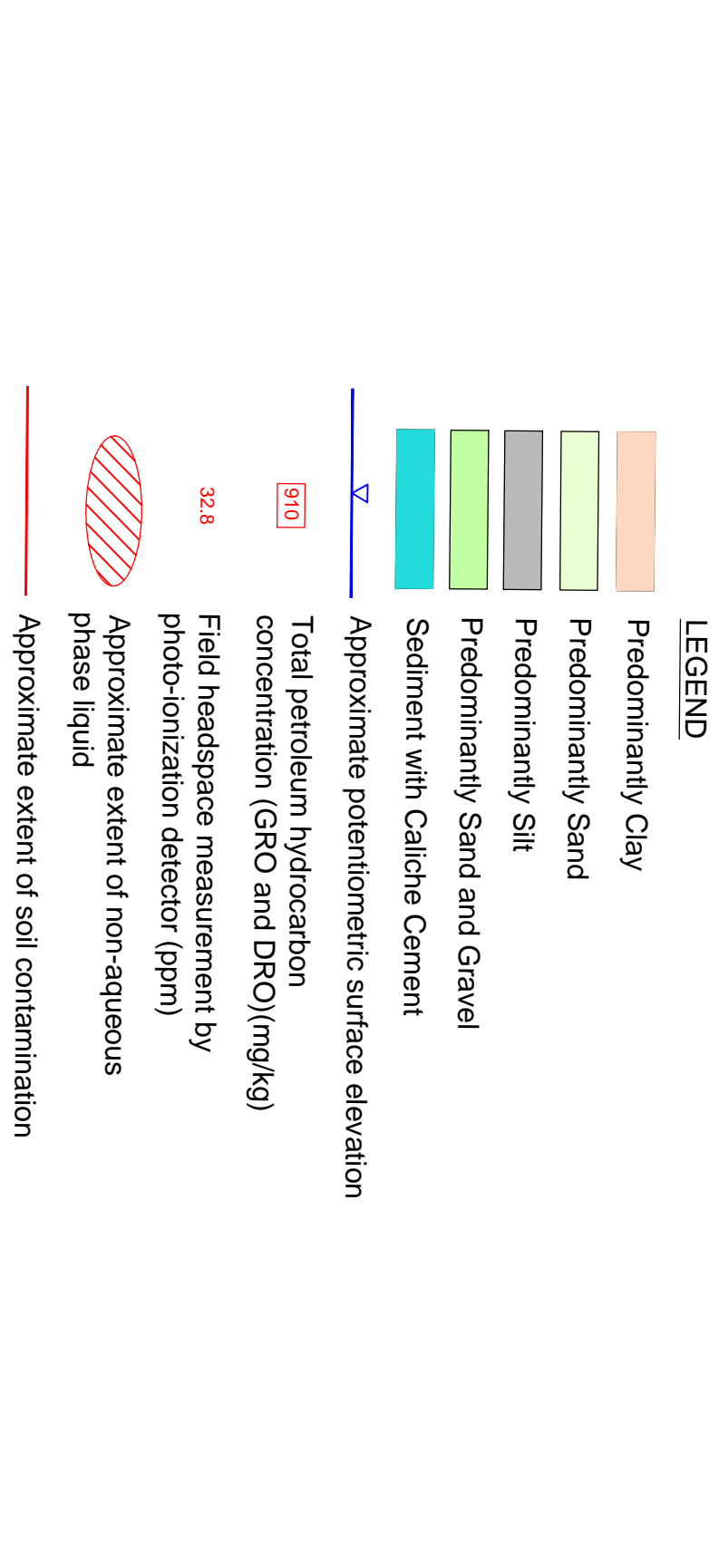
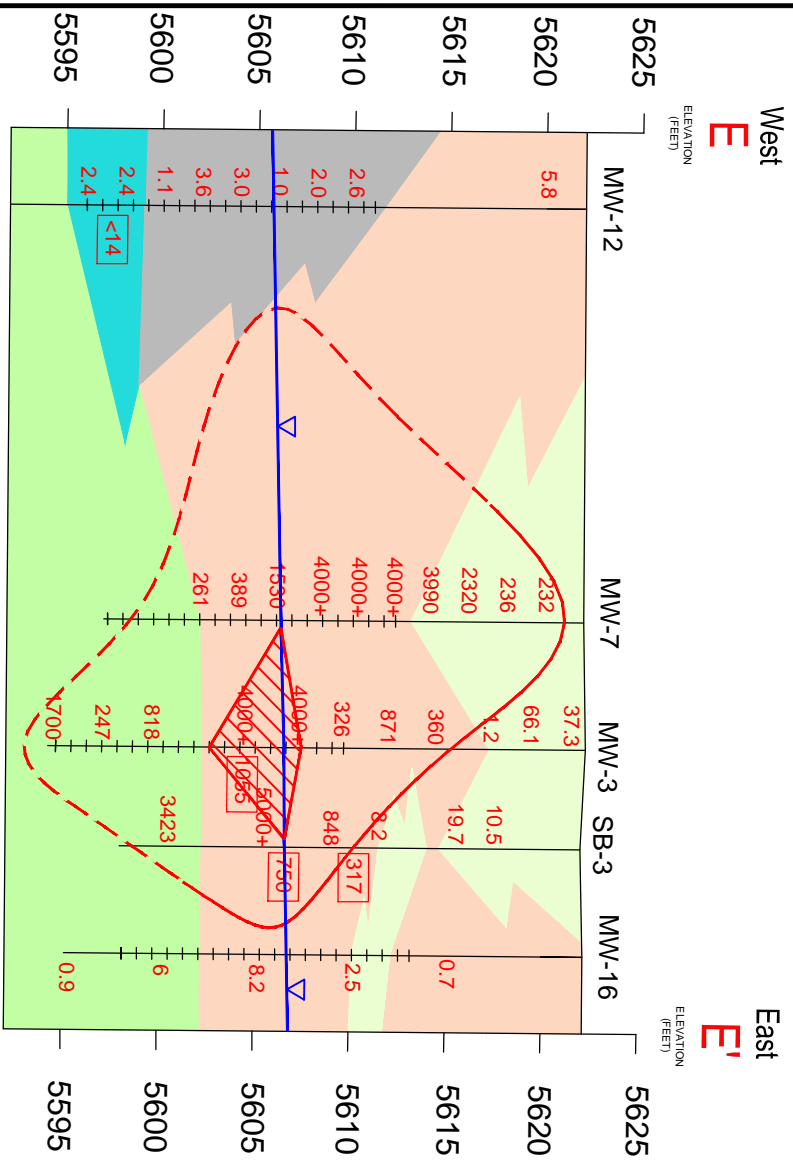
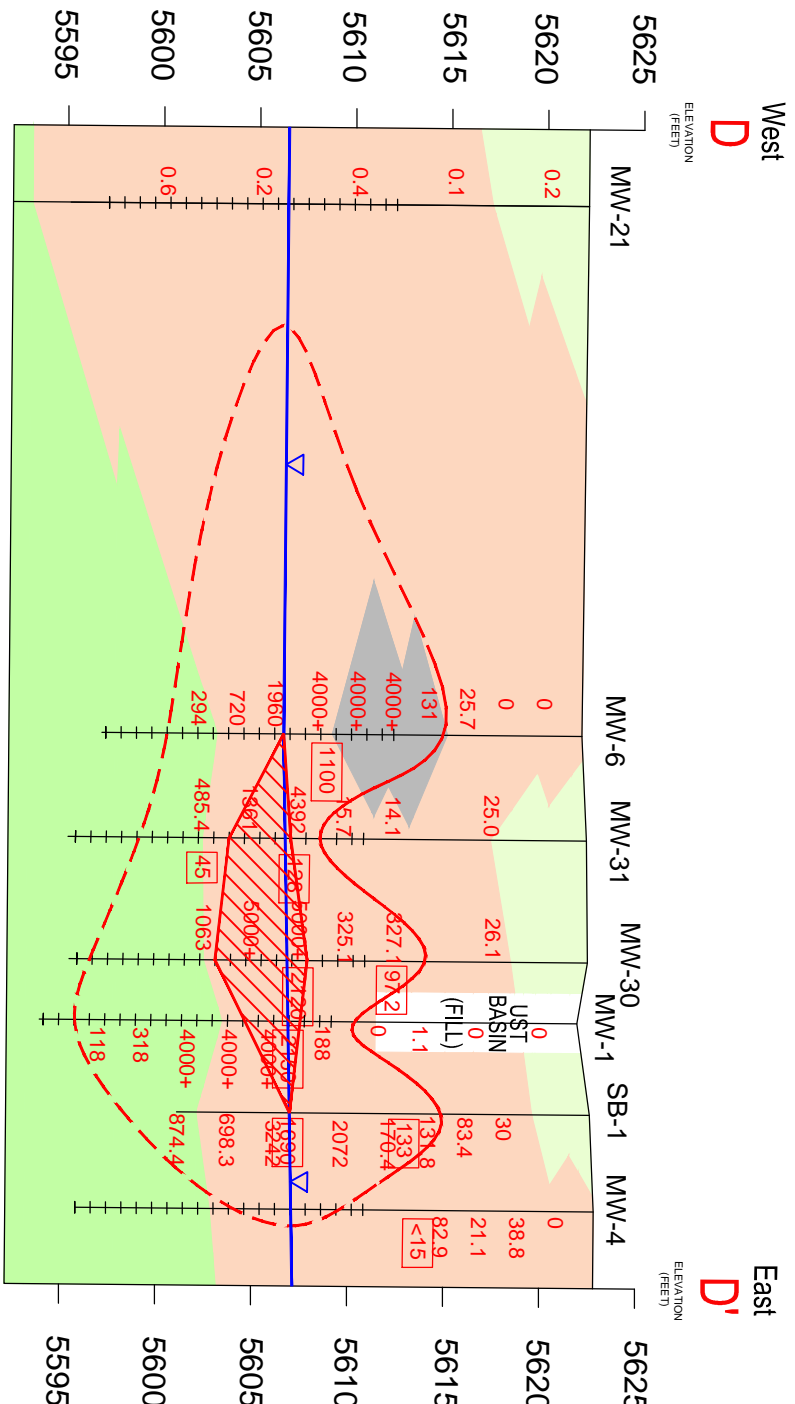
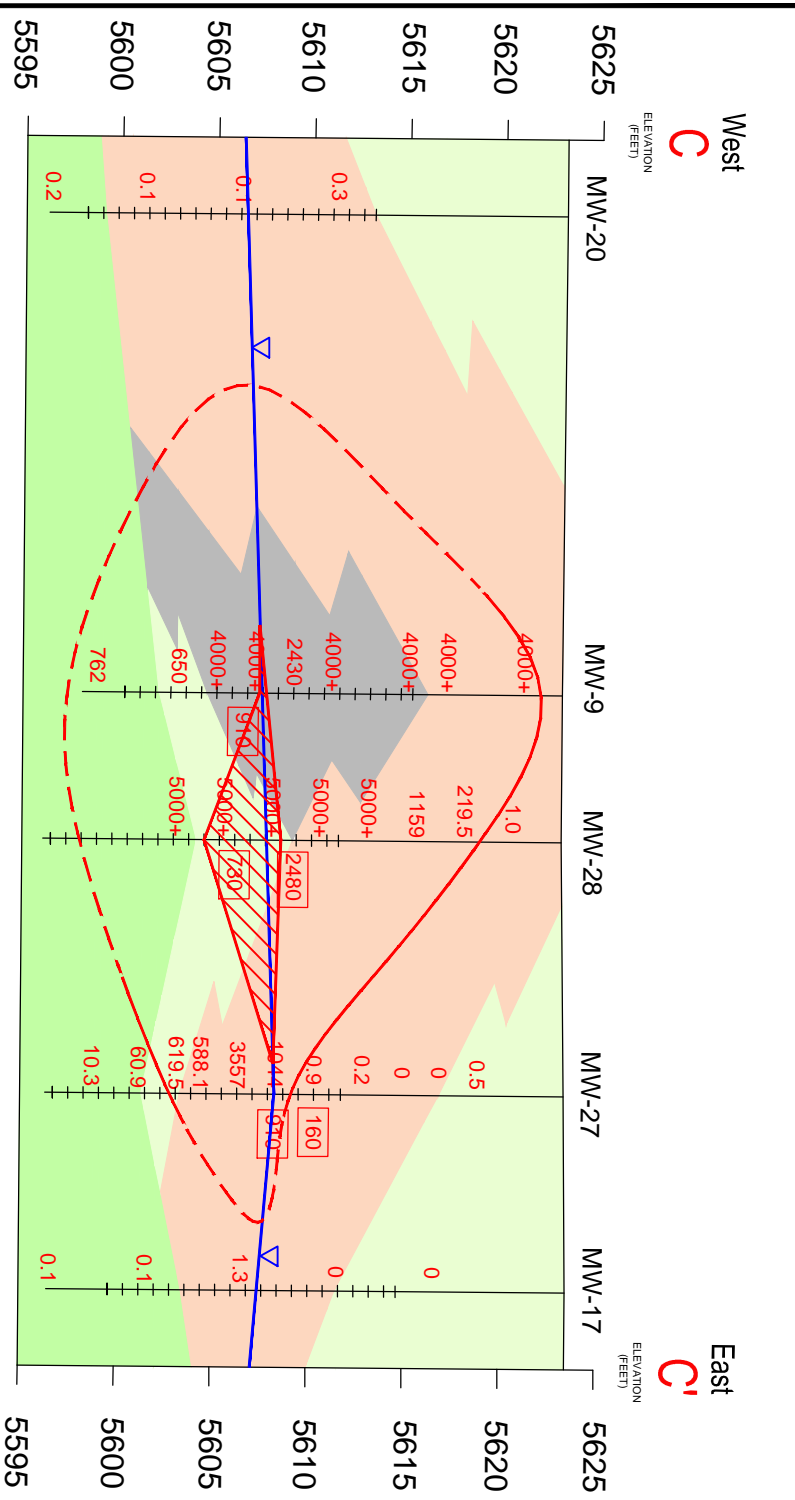
- Total petroleum hydrocarbon concentration (GRO and DRO)(mg/kg)
- Field headspace measurement by photo-ionization detector (ppm)
- Approximate extent of non-aqueous phase liquid
- Approximate extent of soil contamination
- Approximate potentiometric surface elevation



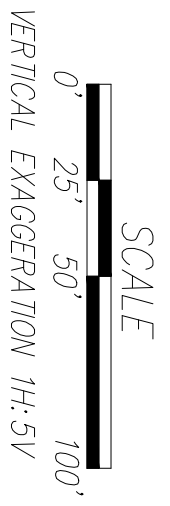
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**GENERALIZED GEOLOGIC / CONTAMINATION CROSS SECTIONS**  
**FAIRVIEW STATION**  
**ESPAÑOLA, NEW MEXICO**

Designed AJE	Drawn AJE	Checked SAM
Date: JUNE 2019		
Scale: Horiz: 1" = 100' Vert: 1" = 100'		
Project No:		
Sheet Figure 6a		



- LEGEND**
- Predominantly Clay
  - Predominantly Sand
  - Predominantly Silt
  - Predominantly Sand and Gravel
  - Sediment with Caliche Cement
  - Approximate potentiometric surface elevation
  - Total petroleum hydrocarbon concentration (GRO and DRO)(mg/kg)
  - Field headspace measurement by photo-ionization detector (ppm)
  - Approximate extent of non-aqueous phase liquid
  - Approximate extent of soil contamination



Designed AJE	Drawn AJE	Checked SAM
Date: JUNE 2019		
Scale: Horiz: 1" = 100' Vert: 1" = 100'		
Project No:		
Sheet: <b>Figure 6b</b>		

**GENERALIZED GEOLOGIC / CONTAMINATION CROSS SECTIONS  
FAIRVIEW STATION  
ESPAÑOLA, NEW MEXICO**



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THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.

## Tables

**TABLE 1. SUMMARY OF FLUID GAUGING DATA  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Casing Elevation	Depth to NAPL (feet)	NAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1	02/27/13	5621.88	14.06	0.34	14.40	5607.74
	06/03/13		13.92	0.28	14.20	5607.89
	06/27/13		14.43	0.37	14.80	5607.36
	07/10/13		14.21	0.24	14.45	5607.61
	10/29/13		13.36	1.89	15.25	5608.05
	11/12/13		15.37	0.46	15.83	5606.40
	11/26/13		13.82	1.08	14.90	5607.79
	10/03/14		14.81	0.04	14.85	5607.06
	12/10/14		15.51	3.20	18.71	5605.57
	01/09/15		14.20	3.49	17.69	5606.81
	01/19/16		13.84	3.93	17.77	5607.06
	07/14/16		14.45	4.70	19.15	5606.26
	07/22/16		15.61	2.45	18.06	5605.66
	11/03/16		14.83	2.40	17.23	5606.45
	07/06/17		15.22	4.07	19.29	5605.64
			03/15/19		Well not found - possibly destroyed	
MW-2	02/27/13	5622.248	13.11	5.45	18.56	5607.78
	06/03/13		13.42	3.97	17.39	5607.84
	06/27/13		13.98	4.22	18.20	5607.21
	07/10/13		13.67	3.83	17.50	5607.62
	10/29/13		12.66	6.02	18.68	5608.08
	11/12/13		14.34	5.06	19.40	5606.64
	11/26/13		12.95	5.61	18.56	5607.90
	10/03/14		14.97	0.08	15.05	5607.26
	12/10/14		15.77	2.87	18.64	5605.76
	01/09/15		14.99	3.74	18.73	5606.32
	01/19/16		14.45	3.60	18.05	5606.90
	07/14/16		15.23	3.88	19.11	5606.05
	07/22/16		14.91	3.57	18.48	5606.45
	11/03/16		15.23	2.52	17.75	5606.39
	07/06/17		16.21	2.85	19.06	5605.33
			03/15/19		15.83	3.46
	03/19/19		14.55	4.60	19.15	5606.55

**TABLE 1. SUMMARY OF FLUID GAUGING DATA  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Casing Elevation	Depth to NAPL (feet)	NAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-3	02/27/13	5622.241	13.80	2.89	16.69	5607.72
	06/03/13		13.46	4.11	17.57	5607.75
	06/27/13		13.88	4.45	18.33	5607.25
	07/10/13		13.70	3.98	17.68	5607.55
	10/29/13		12.50	6.96	19.46	5608.00
	11/12/13		13.19	7.43	20.62	5607.19
	11/26/13		13.02	6.00	19.02	5607.72
	10/03/14		13.96	2.95	16.91	5607.54
	12/10/14		14.75	7.51	22.26	5605.61
	01/09/15		13.72	6.90	20.62	5606.80
	01/19/16		12.69	5.91	18.60	5608.07
	07/14/16		14.23	7.95	22.18	5606.02
	07/22/16		14.60	6.48	21.08	5606.02
	11/03/16		16.29	0.49	16.78	5605.83
	07/06/17		15.70	3.23	18.93	5605.73
	03/15/19		15.70	5.03	20.73	5605.28
03/19/19	15.55	5.18	20.73	5605.40		
MW-4	10/29/13	5622.812	-	-	14.13	5608.68
	11/12/13		-	-	15.12	5607.69
	11/26/13		-	-	15.20	5607.61
	10/03/14		-	-	16.21	5606.60
	01/09/15		-	-	15.88	5606.93
	01/19/16		-	-	14.33	5608.48
	07/14/16		-	-	14.89	5607.92
	07/22/16		-	-	15.10	5607.71
	11/03/16		-	-	16.25	5606.56
	12/21/16		-	-	15.50	5607.31
	07/06/17		-	-	17.34	5605.47
	03/15/19		-	-	15.75	5607.06
MW-5	10/29/13	5621.609	-	-	13.77	5607.84
	11/12/13		-	-	13.93	5607.68
	11/26/13		-	-	14.07	5607.54
	10/03/14		-	-	14.48	5607.13
	01/09/15		-	-	14.40	5607.21
	01/19/16		-	-	13.62	5607.99
	07/14/16		-	-	14.17	5607.44
	07/22/16		-	-	14.87	5606.74
	11/03/16		-	-	14.86	5606.75
	12/21/16		-	-	14.93	5606.68
	07/06/17		-	-	16.38	5605.23
	03/15/19		-	-	15.12	5606.49

**TABLE 1. SUMMARY OF FLUID GAUGING DATA  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Casing Elevation	Depth to NAPL (feet)	NAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-6	10/29/13	5622.01	-	-	13.97	5608.04
	11/12/13		14.39	0.01	14.40	5607.61
	11/26/13		14.31	0.02	14.33	5607.68
	10/03/14		15.60	0.05	15.65	5606.36
	12/10/14		16.20	0.34	16.54	5605.47
	01/09/15		15.58	0.04	15.62	5606.39
	01/19/16		14.99	0.04	15.03	5606.98
	07/14/16		14.34	0.03	14.37	5607.64
	07/22/16		-	-	16.33	5605.68
	11/03/16		15.67	0.01	15.68	5606.34
	07/06/17		-	-	16.59	5605.42
	03/15/19		-	-	15.53	5606.48
MW-7	10/29/13	5622.09	-	-	14.17	5607.92
	11/12/13		-	-	14.62	5607.47
	11/26/13		-	-	14.50	5607.59
	10/03/14		-	-	15.84	5606.25
	01/09/15		-	-	15.25	5606.84
	01/19/16		-	-	14.00	5608.09
	07/14/16		-	-	14.52	5607.57
	07/22/16		-	-	16.09	5606.00
	11/03/16		-	-	15.77	5606.32
	12/21/16		-	-	15.13	5606.96
	07/06/17		-	-	17.03	5605.06
	03/15/19		-	-	15.78	5606.31
MW-8	10/29/13	5623.10	13.80	3.55	17.35	5608.42
	11/12/13		14.49	6.54	21.03	5606.98
	11/26/13		14.05	4.25	18.30	5607.99
	10/03/14		14.95	2.57	17.52	5607.51
	12/10/14		15.27	6.51	21.78	5606.21
	01/09/15		15.00	6.45	21.45	5606.49
	01/19/16		14.34	4.44	18.78	5607.65
	07/14/16		15.15	6.31	21.46	5606.38
	07/22/16		15.98	6.72	22.70	5605.44
	11/03/16		15.33	5.21	20.54	5606.47
	07/06/17		16.79	4.52	21.31	5605.18
	03/15/19		16.29	3.98	20.27	5605.82
03/19/19	16.30	4.45	20.75	5605.69		



**TABLE 1. SUMMARY OF FLUID GAUGING DATA  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Casing Elevation	Depth to NAPL (feet)	NAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-9	10/03/14	5623.105	-	-	16.69	5606.42
	12/10/14		-	-	17.15	5605.96
	01/09/15		-	-	16.46	5606.65
	01/19/16		14.65	0.63	15.28	5608.30
	07/14/16		15.13	0.63	15.76	5607.82
	07/22/16		16.92	0.52	17.44	5606.06
	11/03/16		16.09	0.01	16.10	5607.01
	07/06/17		17.78	0.33	18.11	5605.24
	03/15/19		17.23	0.13	17.36	5605.84
MW-10	10/03/14	5623.073	-	-	16.78	5606.29
	01/09/15		-	-	16.28	5606.79
	01/19/16		Sheen	-	14.89	5608.18
	07/14/16		15.37	0.01	15.38	5607.69
	07/22/16		-	-	17.22	5605.85
	11/03/16		16.23	0.01	16.24	5606.84
	07/06/17		17.93	0.01	17.94	5605.14
	03/15/19		-	-	17.34	5605.73
	05/09/19		-	-	16.73	5606.34
MW-11	10/03/14	5623.36	15.55	0.16	15.71	5607.77
	12/10/14		16.52	3.63	20.15	5605.94
	01/09/15		15.89	3.36	19.25	5606.63
	01/19/16		15.47	3.66	19.13	5606.98
	07/14/16		16.01	3.09	19.10	5606.58
	07/22/16		17.20	1.50	18.70	5605.79
	11/03/16		16.85	1.21	18.06	5606.21
	07/06/17		17.47	2.35	19.82	5605.31
	03/15/19		17.15	1.93	19.08	5605.73
	03/19/19		17.11	1.77	18.88	5605.81
MW-12	10/03/14	5622.05	-	-	15.52	5606.53
	12/09/14		-	-	15.94	5606.11
	01/09/15		-	-	15.21	5606.84
	01/19/16		-	-	NM	NM
	07/14/16		-	-	NM	NM
	07/22/16		-	-	NM	NM
	11/03/16		-	-	NM	NM
	12/21/16		-	-	NM	NM
	07/06/17		-	-	NM	NM
	03/15/19		-	-	NM	NM

**TABLE 1. SUMMARY OF FLUID GAUGING DATA  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Casing Elevation	Depth to NAPL (feet)	NAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-13	10/03/14	5621.52	-	-	14.81	5606.71
	01/09/15		-	-	14.76	5606.76
	01/19/16		-	-	NM	NM
	07/14/16		-	-	14.24	5607.28
	07/22/16		-	-	14.46	5607.06
	11/03/16		-	-	14.57	5606.95
	12/21/16		-	-	14.87	5606.65
	07/06/17		-	-	16.61	5604.91
	03/15/19		-	-	15.13	5606.39
MW-14	10/03/14	5622.97	15.76	0.29	16.05	5607.13
	12/10/14		16.38	2.19	18.57	5606.04
	01/09/15		15.96	0.49	16.45	5606.88
	01/19/16		14.40	0.79	15.19	5608.37
	07/14/16		15.23	0.47	15.70	5607.62
	07/22/16		16.68	0.38	17.06	5606.19
	11/03/16		15.90	0.10	16.00	5607.04
	07/06/17		17.46	0.67	18.13	5605.34
	03/15/19		16.68	0.96	17.64	5606.05
MW-15	07/14/16	5622.104	14.35	1.59	15.94	5607.36
	07/22/16		15.11	3.44	18.55	5606.13
	11/03/16		15.64	0.01	15.65	5606.46
	07/06/17		16.10	1.21	17.31	5605.70
	03/15/19		15.49	5.14	20.63	5605.33
	03/19/19		15.88	1.61	17.49	5605.82
MW-16	07/14/16	5622.15	-	-	14.54	5607.61
	07/22/16		-	-	15.36	5606.79
	11/03/16		-	-	15.35	5606.80
	12/21/16		-	-	15.17	5606.98
	07/06/17		-	-	16.98	5605.17
	03/15/19		-	-	15.40	5606.75

**TABLE 1. SUMMARY OF FLUID GAUGING DATA  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Casing Elevation	Depth to NAPL (feet)	NAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-17	07/14/16	5623.46	-	-	15.20	5608.26
	07/22/16		-	-	16.58	5606.88
	11/03/16		-	-	16.37	5607.09
	12/21/16		-	-	15.84	5607.62
	07/06/17		-	-	17.69	5605.77
	03/15/19		-	-	16.04	5607.42
	05/09/19		-	-	16.38	5607.08
MW-18	07/14/16	5623.49	-	-	15.36	5608.13
	07/22/16		16.58	0.01	16.59	5606.90
	11/03/16		16.10	0.01	16.11	5607.38
	07/06/17		18.05	0.19	18.24	5605.39
	03/15/19		16.50	2.70	19.20	5606.31
MW-19	07/14/16	5623.58	-	-	15.80	5607.78
	07/22/16		-	-	16.84	5606.74
	11/03/16		-	-	15.94	5607.64
	12/21/16		-	-	16.17	5607.41
	07/06/17		-	-	17.92	5605.66
	03/15/19		-	-	16.34	5607.24
	05/09/19		-	-	15.07	5608.51
MW-20	07/14/16	5623.18	-	-	15.29	5607.89
	07/22/16		-	-	15.31	5607.87
	11/03/16		-	-	15.00	5608.18
	12/21/16		-	-	15.56	5607.62
	07/06/17		-	-	16.38	5606.80
	03/15/19		-	-	16.67	5606.51

**TABLE 1. SUMMARY OF FLUID GAUGING DATA  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Casing Elevation	Depth to NAPL (feet)	NAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-21	<i>07/14/16</i>	5622.16	-	-	<i>15.47</i>	<i>5606.69</i>
	<i>07/22/16</i>		-	-	<i>15.36</i>	<i>5606.80</i>
	<i>11/03/16</i>		-	-	<i>15.59</i>	<i>5606.57</i>
	<i>12/21/16</i>		-	-	<i>15.68</i>	<i>5606.48</i>
	<i>07/06/17</i>		-	-	<i>16.88</i>	<i>5605.28</i>
	<i>03/15/19</i>		-	-	15.66	5606.50
MW-22	03/15/19	5622.00	-	-	15.46	5606.54
MW-23	03/15/19	5622.19	-	-	15.93	5606.26
MW-24	03/15/19		Installation pending access			
MW-25	03/15/19		Installation pending access			
MW-26	03/15/19	5623.98	-	-	16.42	5607.56
MW-27	03/15/19	5622.82	-	-	16.39	5606.43
	05/09/19		-	-	15.07	5607.75
MW-28	03/15/19	5622.75	15.43	3.91	19.34	5606.34
MW-29	03/22/19	5622.37	15.15	0.09	15.24	5607.20
	05/09/19		15.30	1.71	17.01	5606.64
MW-30	03/22/19	5621.87	13.73	4.88	18.61	5606.92
MW-31	03/22/19	5621.95	-	-	15.27	5606.68
	05/09/19		15.53	3.24	18.77	5605.61

NOTES:

Data collected before 2018 (in italics) collected by previous consultants.

**RED** = Indicates measurement taken after skimmer or sock removed; measurement not representative

NAPL = Nonaqueous phase liquid

NA = Not applicable

NM = Not measured

TABLE 2. SUMMARY OF SOIL SAMPLE RESULTS  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Boring I.D.	Date	Depth (feet)	PID Result (ppm)	Method 8260B						Method 8015B	
				Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Total Naphthalenes	GRO	DRO
MW-22	03/12/19	15	0.0	<0.018	<0.036	<0.036	<0.072	<0.036	<0.35	<3.6	<9.3
	03/12/19	20	0.0	0.043	<0.032	<0.032	<0.063	<0.032	<0.32	<3.2	<9.3
MW-23	03/12/19	15	0.0	<0.015	<0.030	<0.030	<0.060	<0.030	<0.30	<3.0	<9.7
	03/12/19	20	0.1	<0.016	<0.031	<0.031	<0.063	<0.031	<0.32	<3.1	<9.6
MW-26	03/13/19	15	0.7	<0.019	<0.038	<0.038	<0.075	<0.038	<0.30	<3.8	<9.5
	03/13/19	20	0.1	<0.018	<0.035	<0.035	<0.070	<0.035	<0.35	<3.5	<9.4
MW-27	03/14/19	14	0.9	1.0	<0.17	2.2	2.7	<0.17	3.6	160	<9.6
	03/14/19	15	1,044	2.6	2.7	8.7	19	<0.37	9.5	740	170
MW-28	03/13/19	14	>5000	12	24	33	130	<0.39	28.6	2,100	380
	03/13/19	17	>5000	3.6	4.3	8.6	33	<0.27	18.7	590	140
MW-29	03/12/19	12.5	208.2	3.3	0.99	4.9	5.3	0.16	3.99	310	96
	03/12/19	15	>5000	6.3	15	11	45	<0.36	11.2	730	200
MW-30	03/12/19	10	327.9	<0.015	<0.030	0.42	<0.060	<0.030	<0.69	88	9.2
	03/12/19	15	>5000	14	30	33	110	<0.68	22.3	1,800	320
MW-31	03/12/19	15	4,392	1.1	1.4	1.3	5.0	0.54	1.75	42	86
	03/12/19	20	485.4	0.17	0.72	0.51	2.1	0.052	0.34	34	11
SB-1	03/12/19	10	1,704	0.28	0.18	2.4	0.81	<0.052	6.8	41	92
	03/12/19	15	3,242	4.1	0.60	27	27	<0.40	26.3	1,500	190
SB-2	03/14/19	9	23.7	<0.014	<0.027	0.039	<0.054	<0.027	0.12	5.5	<9.5
	03/14/19	15	>5000	2.1	12	10	32	<0.031	10.5	610	220
SB-3	03/12/19	11.5	848.3	2.1	7.2	4.4	18	0.62	2.4	280	37
	03/12/19	15	>5000	8.0	25	8.5	37	0.30	8.5	600	150

NOTES:

All concentrations in milligrams per kilogram (mg/kg) which is equivalent to parts per million (ppm)

MTBE = Methyl tertiary butyl ether

NA = Not analyzed

**TABLE 3. SUMMARY OF NAPL RECOVERY  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing <sup>1</sup>	NAPL Thickness After Bailing <sup>1</sup>	Total NAPL Recovered <sup>2</sup>	Comments
MW-1	02/01/13	NM	NM	0.00	
	02/04/13	NM	NM	0.00	
	02/27/13	0.34	NM	0.00	
	06/03/13	0.28	NM	0.50	
	06/27/13	0.37	NM	0.10	
	07/10/13	0.24	NM	0.00	
	10/29/13	1.89	NM	1.50	
	11/12/13	0.46	NM	0.30	
	11/26/13	1.08	NM	0.30	
	10/03/14	0.04	NM	0.00	
	12/10/14	3.20	NM	NM	
	01/09/15	3.49	NM	NM	
	01/19/16	3.93	1.21	4.50	
	07/14/16	4.70	0.01	3.25	set skimmer
	07/22/16	2.45	1.55	3.25	skimmer 1/2 full
	07/28/16	4.55	0.16	3.00	skimmer 1/2 full
	08/04/16	4.87	0.94	5.00	skimmer 1/2 full
	08/11/16	4.75	0.80	4.00	skimmer 1/2 full
	08/18/16	4.80	0.75	3.50	skimmer 1/2 full
	08/31/16	4.48	0.05	3.00	skimmer 1/2 full
09/15/16	3.68	0.01	1.50	skimmer 1/2 full	
09/22/16	0.83	0.11	0.75	skimmer 1/2 full	
10/06/16	2.34	0.01	1.25	skimmer 1/2 full	
10/21/16	1.12	0.27	0.75	skimmer 1/2 full	
11/03/16	2.40	0.10	1.50	skimmer 1/2 full	
07/06/17	4.07	2.31	7.50	skimmer 3/4 full; ~3 inches water	
03/15/19	Well not found - possibly destroyed				
MW-2	02/01/13	NM	NM	4.50	
	02/04/13	NM	NM	5.00	
	02/27/13	5.45	NM	0.00	
	06/03/13	3.97	NM	4.50	
	06/27/13	4.22	NM	3.00	
	07/10/13	3.83	NM	2.50	
	10/29/13	6.02	NM	3.50	
	11/12/13	5.06	NM	2.80	
	11/26/13	5.61	NM	3.00	
	10/03/14	0.08	NM	0.00	
	12/10/14	2.87	NM	NM	
	01/09/15	3.74	NM	NM	
	01/19/16	3.60	0.85	3.75	
	07/14/16	3.88	0.01	2.75	set skimmer
	07/22/16	3.57	0.06	2.50	skimmer full
	07/28/16	3.59	0.18	2.25	skimmer full
	08/04/16	3.00	0.36	3.00	skimmer full
	08/11/16	3.41	0.27	3.00	skimmer full
	08/18/16	3.07	0.38	3.00	skimmer full
	08/31/16	5.36	0.26	2.50	skimmer full
	09/15/16	5.30	0.24	3.00	skimmer full
	09/22/16	3.88	0.26	2.25	skimmer full
	10/06/16	4.30	0.20	2.50	skimmer full
10/21/16	2.94	0.01	2.25	skimmer 1/2 full	
11/03/16	2.52	0.15	2.00	skimmer full	
07/06/17	2.85	0.35	2.00	skimmer full; 1/4 NAPL, 3/4 water, soaked filter in NAPL	
03/15/19	3.46	0.88	5.25	skimmer full; 1/5 NAPL, 4/5 water	
03/19/19	4.60	0.70	5.5	skimmer full	

**TABLE 3. SUMMARY OF NAPL RECOVERY  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing <sup>1</sup>	NAPL Thickness After Bailing <sup>1</sup>	Total NAPL Recovered <sup>2</sup>	Comments
MW-3	02/01/13	NM	NM	0.50	
	02/04/13	NM	NM	2.00	
	02/27/13	2.89	NM	0.00	
	06/03/13	4.11	NM	4.50	
	06/27/13	4.45	NM	3.50	
	07/10/13	3.98	NM	3.00	
	10/29/13	6.96	NM	7.00	
	11/12/13	7.43	NM	5.00	
	11/26/13	6.00	NM	4.30	
	10/03/14	2.95	NM	0.00	
	12/10/14	7.51	NM	NM	
	01/09/15	6.90	NM	NM	
	01/19/16	5.91	1.10	5.00	
	07/14/16	7.95	0.01	5.50	set skimmer
	07/22/16	6.48	0.15	5.50	skimmer full of water only
	07/28/16	6.41	0.17	3.00	skimmer full of water only; soaked filter in NAPL
	08/04/16	3.57	0.47	3.00	skimmer full of water only; replaced skimmer with skimmer from MW-11
	08/11/16	3.10	0.28	3.00	skimmer full
	08/18/16	2.78	0.20	2.50	skimmer full
	08/31/16	3.12	0.13	2.25	skimmer full
	09/15/16	3.82	0.24	2.50	skimmer full
	09/22/16	1.81	0.07	1.25	skimmer full
	10/06/16	1.49	0.11	1.00	skimmer full
	10/21/16	0.70	0.01	0.50	skimmer 1/3 full
11/03/16	0.49	0.10	0.25	skimmer 1/2 full	
07/06/17	3.23	0.01	1.50	skimmer full	
03/15/19	5.03	0.08	2.75	skimmer full	
03/19/19	5.18	0.17	2.0	skimmer full	
MW-6	10/29/13	-	-	0.00	
	11/12/13	0.01	NM	0.00	
	11/26/13	0.02	NM	0.00	
	10/03/14	0.05	NM	0.00	
	12/10/14	0.34	NM	0.00	
	01/09/15	0.04	NM	0.00	
	01/19/16	0.04	0.00	negligible	
	07/14/16	0.03	0.00	negligible	set new sock
	07/22/16	0.00	-	0.01	2 inches of staining; set new sock
	07/28/16	0.00	-	0.00	no staining; reset same sock
	08/04/16	0.00	-	0.08	16 inches of staining; set new sock
	08/11/16	0.00	-	0.08	16 inches of staining; set new sock
	08/18/16	0.01	-	0.08	16 inches of staining; set new sock
	08/31/16	0.01	-	0.07	14 inches of staining; set new sock
	09/15/16	0.00	-	0.06	11 inches of staining; set new sock
	09/22/16	0.01	-	0.00	no staining; reset same sock
	10/06/16	0.01	-	0.04	8 inches of staining; set new sock
	10/21/16	0.00	-	0.01	1 inch of staining; set new sock
11/03/16	0.01	-	0.06	12 inchs of staining; set new sock	
07/06/17	-	-	0.1	20 inchs of staining; set new sock	
03/15/19	0.00	-	0.0	removed sock	

**TABLE 3. SUMMARY OF NAPL RECOVERY  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing <sup>1</sup>	NAPL Thickness After Bailing <sup>1</sup>	Total NAPL Recovered <sup>2</sup>	Comments
MW-8	10/29/13	3.55	NM	2.50	
	11/12/13	6.54	NM	3.00	
	11/26/13	4.25	NM	3.50	
	10/03/14	2.57	NM	0.00	
	12/10/14	6.51	NM	NM	
	01/09/15	6.45	NM	NM	
	01/19/16	4.44	0.55	3.25	
	07/14/16	6.31	0.01	3.00	set skimmer
	07/22/16	6.72	0.10	3.00	skimmer 3/4 full
	07/28/16	6.88	0.13	1.75	skimmer full
	08/04/16	3.72	0.17	3.00	skimmer full
	08/11/16	6.05	0.06	3.00	skimmer full
	08/18/16	6.41	0.04	3.00	skimmer full
	08/31/16	3.86	0.30	2.50	skimmer 1/3 full of NAPL, 2/3 full water; soaked filter in NAPL
	09/15/16	4.36	0.15	2.50	skimmer 1/2 full of NAPL, 1/2 full water; removed skimmer
	09/22/16	5.91	0.05	2.25	
	10/06/16	6.57	0.20	2.25	
	10/21/16	6.09	0.05	2.00	
	11/03/16	5.21	0.07	2.00	
	07/06/17	4.52	0.24	1.00	
03/15/19	3.98	0.08	1.75		
03/19/19	4.45	0.35	1.5		
MW-9	10/03/14	-	-	0.00	
	12/10/14	-	-	0.00	
	01/09/15	-	-	0.00	
	01/19/16	0.63	0.01	negligible	
	07/14/16	0.63	0.01	0.25	set new sock
	07/22/16	0.52	0.11	0.31	1 foot of staining; set new sock
	07/28/16	0.01	-	0.12	2 feet of staining; set new sock
	08/04/16	0.01	-	0.08	16 inches of staining; set new sock
	08/11/16	0.00	-	0.00	no staining; reset same sock
	08/18/16	0.00	-	0.07	13 inches of staining; set new sock
	08/31/16	0.01	-	0.06	11 inches of staining; set new sock
	09/15/16	0.00	-	0.00	no staining; reset same sock
	09/22/16	0.00	-	0.00	no staining; reset same sock
	10/06/16	0.00	-	0.03	6 inches of staining; set new sock
	10/21/16	0.01	-	0.01	2 inches of staining; set new sock
	11/03/16	0.01	-	0.05	9 inches of staining; set new sock
	07/06/17	0.33	0.01	0.09	17 inches of staining; set new sock
03/15/19	0.13	0.01	negligible	removed sock	



**TABLE 3. SUMMARY OF NAPL RECOVERY  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing <sup>1</sup>	NAPL Thickness After Bailing <sup>1</sup>	Total NAPL Recovered <sup>2</sup>	Comments
MW-10	10/03/14	-	-	0.00	
	12/09/14	Lost Data		0.00	
	01/09/15	-	-	0.00	
	01/19/16	Sheen		0.00	
	07/14/16	0.01	-	0.00	set new sock
	07/22/16	0.00	-	0.07	14 inches of staining; set new sock
	07/28/16	0.00	-	0.06	1 foot of staining; set new sock
	08/04/16	0.00	-	0.00	no staining; reset same sock
	08/11/16	0.00	-	0.06	1 foot of staining; set new sock
	08/18/16	0.00	-	0.06	11 inches of staining; set new sock
	08/31/16	0.00	-	0.06	11 inches of staining; set new sock
	09/15/16	0.00	-	0.02	4.5 inches of staining; set new sock
	09/22/16	0.00	-	0.00	no staining; reset same sock
	10/06/16	0.00	-	0.03	5 inches of staining; set new sock
	10/21/16	0.00	-	0.00	no staining; reset same sock
	11/03/16	0.01	-	0.03	6 inches of staining; set new sock
	07/06/17	0.01	-	0.07	13 inches of staining; set new sock
03/15/19	0.00	-	0.0	removed sock	
MW-11	10/03/14	0.16	NM	0.00	
	12/10/14	3.63	NM	NM	
	01/09/15	3.36	NM	NM	
	01/19/16	3.66	0.62	2.75	
	07/14/16	3.09	0.01	2.00	set skimmer
	07/22/16	1.50	0.16	1.25	skimmer full
	07/28/16	0.25	0.01	0.10	skimmer 1/2 full
	08/04/16	0.18	0.01	0.25	skimmer 1/2 full; removed skimmer; installed sock
	08/11/16	0.26	0.01	0.06	1 foot of staining; set new sock
	08/18/16	0.36	0.01	0.08	15 inches of staining; set new sock
	08/31/16	0.20	0.01	0.09	18 inches of staining; set new sock
	09/15/16	0.52	0.01	0.06	11 inches of staining; set new sock
	09/22/16	0.85	0.05	0.29	7 inches of staining; set new sock
	10/06/16	1.88	0.09	0.79	8 inches of staining; set new sock
	10/21/16	1.74	0.05	0.77	3 inches of staining; set new sock
	11/03/16	1.21	0.01	0.29	7 inches of staining; set new sock
	07/06/17	2.35	1.43	5.02	3.5 inches of staining; set new sock
03/15/19	1.93	0.50	2.0	sock removed	
03/19/19	1.77	0.40	1.5		

**TABLE 3. SUMMARY OF NAPL RECOVERY  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing <sup>1</sup>	NAPL Thickness After Bailing <sup>1</sup>	Total NAPL Recovered <sup>2</sup>	Comments
MW-14	10/03/14	0.29	NM	0.00	
	12/10/14	2.19	NM	NM	
	01/09/15	0.49	NM	NM	
	01/19/16	0.79	0.01	0.25	
	07/14/16	0.47	0.01	0.10	set new sock
	07/22/16	0.38	0.19	0.33	16 inches of staining; set new sock
	07/28/16	0.12	0.01	0.10	19 inches of staining; set new sock
	08/04/16	0.01	-	0.01	2 inches of staining; set new sock
	08/11/16	0.00	-	0.02	3 inches of staining; set new sock
	08/18/16	0.01	-	0.07	14 inches of staining; set new sock
	08/31/16	0.00	-	0.06	11 inches of staining; set new sock
	09/15/16	0.01	-	0.02	4 inches of staining; set new sock
	09/22/16	0.01	-	0.02	4 inches of staining; set new sock
	10/06/16	0.05	0.00	0.03	6 inches of staining; set new sock
	10/21/16	0.12	0.01	0.01	2 inches of staining; set new sock
	11/03/16	0.10	0.01	0.07	13 inches of staining; set new sock
07/06/17	0.67	0.01	0.05	10 inches of staining; set new sock	
03/15/19	0.96	0.1	0.5	sock removed	
MW-15	07/14/16	1.59	0.01	1.50	
	07/22/16	3.44	0.87	2.50	
	07/28/16	0.73	0.01	0.25	set new sock
	08/04/16	0.60	0.03	0.93	3 feet of staining; set new sock
	08/11/16	0.32	0.04	0.00	no staining; reset same sock
	08/18/16	1.05	0.01	0.15	30 inches of staining; set new sock
	08/31/16	0.06	0.00	0.15	29 inches of staining; set new sock
	09/15/16	0.13	0.01	0.10	19 inches of staining; set new sock
	09/22/16	0.08	0.01	0.08	16 inches of staining; set new sock
	10/06/16	0.20	0.01	0.08	16 inches of staining; set new sock
	10/21/16	0.27	0.01	0.04	8.5 inches of staining; set new sock
	11/03/16	0.01	-	0.03	5 inches of staining; set new sock
	07/06/17	1.21	-	0.54	7 inches of staining; set new sock
03/15/19	5.14	0.21	4.25	removed sock	
03/19/19	1.61	0.24	0.75		

**TABLE 3. SUMMARY OF NAPL RECOVERY  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing <sup>1</sup>	NAPL Thickness After Bailing <sup>1</sup>	Total NAPL Recovered <sup>2</sup>	Comments
MW-18	07/22/16	0.01	-	0.00	set new sock
	07/28/16	0.00	-	0.08	15 inches of staining; set new sock
	08/04/16	0.00	-	0.00	no staining; reset same sock
	08/11/16	0.00	-	0.09	18 inches of staining; set new sock
	08/18/16	0.00	-	0.11	21 inches of staining; set new sock
	08/31/16	0.00	-	0.09	18 inches of staining; set new sock
	09/15/16	0.00	-	0.09	17 inches of staining; set new sock
	09/22/16	0.00	-	0.00	no staining; reset same sock
	10/06/16	0.01	-	0.03	6 inches of staining; set new sock
	10/21/16	0.00	-	0.02	3 inches of staining; set new sock
	11/03/16	0.01	-	0.09	18 inches of staining; set new sock
	07/06/17	0.19	0.01	0.04	8 inches of staining; set new sock
	03/15/19	2.70	0.02	0.75	removed sock
MW-28	03/15/19	3.91	0.5	2.50	
MW-29	03/22/19	0.09		0.00	
MW-30	03/22/19	4.88		0.00	
<b>March 2019</b>				<b>31.00</b>	
<b>Recovered</b>				<b>273.47</b>	

NOTES:

NAPL - Non Aqueous Phase Liquid

<sup>1</sup> Measured in feet.

<sup>2</sup> Measured in gallons.

Absorbent sock capacity = 0.005 gallons per inch

All NAPL recovered is placed in a drum located at the Fairview Station Site in Espanola, NM.

**TABLE 4a. SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	EDB	EDC	Total Naphthalenes*
<b>NMAC 20.6.2.3103 / NMPSTR Standards</b>		5	1000	750	620	100	0.05	5	30
MW-1	02/04/13	<b>16,000</b>	<b>21,000</b>	<b>3,700</b>	<b>14,000</b>	<b>3,900</b>	<10	64	<b>1,170</b>
	12/09/14	NAPL - Not Sampled							
	01/19/16	NAPL - Not Sampled							
	07/14/16	NAPL - Not Sampled							
	11/03/16	NAPL - Not Sampled							
	03/15/19	Well Not Found							
MW-2	02/04/13	NAPL - Not Sampled							
	12/10/14	<b>24,000</b>	<b>23,000</b>	<b>2,600</b>	<b>12,000</b>	<b>27,000</b>	<b>0.2</b>	<500	<2,000
	01/19/16	NAPL - Not Sampled							
	07/14/16	NAPL - Not Sampled							
	11/03/16	NAPL - Not Sampled							
	03/15/19	NAPL - Not Sampled							
MW-3	02/04/13	NAPL - Not Sampled							
	12/09/14	NAPL - Not Sampled							
	01/19/16	NAPL - Not Sampled							
	07/14/16	NAPL - Not Sampled							
	11/03/16	NAPL - Not Sampled							
	03/15/19	NAPL - Not Sampled							
MW-4	10/29/13	<1.0	<1.0	<1.0	<2.0	31	<0.01	<b>8.8</b>	NA
	12/09/14	<1.0	<1.0	<1.0	<1.5	13	<0.01	2.4	<4.0
	01/19/16	<1.0	<1.0	<1.0	<1.5	42	<0.010	<b>7.1</b>	<4.0
	07/13/16	4.8	<1.0	<1.0	<1.5	<b>130</b>	<0.010	<b>17</b>	<4.0
	11/03/16	3.4	<1.0	<1.0	<1.5	61	<1.0	4.6	<4.0
	07/06/17	<1.0	<1.0	<1.0	<1.5	62	<1.0	4.4	<4.0
	03/22/19	<1.0	<1.0	<1.0	<1.0	3.3	<0.0095	<1.0	<10.0
MW-5	10/29/13	<b>4,300</b>	<b>1,100</b>	740	<b>2,000</b>	<b>540</b>	<0.01	<b>44</b>	<b>235</b>
	12/09/14	<b>8,900</b>	940	<b>1,200</b>	<b>1,500</b>	<b>1,700</b>	<0.01	<100	<b>230</b>
	01/19/16	<b>16,000</b>	470	<b>1,200</b>	390	<b>2,700</b>	<0.010	<b>130</b>	<b>328</b>
	07/14/16	<b>13,000</b>	930	<b>1,200</b>	<b>820</b>	<b>2,600</b>	<1.0	<1.0	<b>398</b>
	11/03/16	<b>12,000</b>	540	<b>1,200</b>	580	<b>2,200</b>	<100	<100	<b>230</b>
	07/06/17	<b>13,000</b>	980	<b>1,100</b>	<b>1,000</b>	<b>2,400</b>	<20	<b>69</b>	<b>190</b>
	03/26/19	<b>7,900</b>	660	540	<b>700</b>	<b>1,700</b>	<0.0093	<b>25</b>	<b>83</b>
MW-6	10/29/13	<b>10,000</b>	<b>23,000</b>	<b>3,100</b>	<b>13,000</b>	<b>110</b>	<0.01	<50	<b>712</b>
	12/10/14	<b>5,500</b>	<b>29,000</b>	<b>5,100</b>	<b>28,000</b>	<500	<0.01	<500	<b>1,100</b>
	01/19/16	NAPL - Not Sampled							
	07/14/16	NAPL - Not Sampled							
	11/03/16	NAPL - Not Sampled							
	07/06/17	<b>690</b>	<b>3,900</b>	<b>2,300</b>	<b>13,000</b>	53	<50	<50	<b>870</b>
	03/22/19	NAPL Sheen - Not Sampled							

**TABLE 4a. SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	EDB	EDC	Total Naphthalenes*
<b>NMAC 20.6.2.3103 / NMPSTR Standards</b>		5	1000	750	620	100	0.05	5	30
MW-7	10/29/13	<b>7,700</b>	<b>7,400</b>	<b>1,700</b>	<b>8,900</b>	<b>3,500</b>	<0.01	<50	<b>638</b>
	12/09/14	<b>4,000</b>	420	510	<b>1,100</b>	<b>1,500</b>	<0.01	<50	<b>130</b>
	01/19/16	<b>3,300</b>	640	460	<b>1,000</b>	<b>1,500</b>	<0.010	<b>5.7</b>	<b>219</b>
	07/14/16	<b>4,800</b>	500	360	590	<b>2,500</b>	<1.0	<1.0	<b>233</b>
	11/03/16	<b>7,000</b>	<b>1,600</b>	630	<b>1,500</b>	<b>3,400</b>	<20	<b>28</b>	<b>220</b>
	07/06/17	<b>8,200</b>	840	710	<b>1,000</b>	<b>3,400</b>	<10	<b>22</b>	<b>120</b>
	03/22/19	<b>7,300</b>	<b>1,300</b>	460	<b>890</b>	<b>4,500</b>	<0.0099	<5.0	<b>132</b>
MW-8	10/29/13	NAPL - Not Sampled							
	12/09/14	NAPL - Not Sampled							
	01/19/16	NAPL - Not Sampled							
	07/14/16	NAPL - Not Sampled							
	11/03/16	NAPL - Not Sampled							
	03/15/19	NAPL - Not Sampled							
MW-9	07/21/14	<b>2,000</b>	<b>1,100</b>	<b>1,800</b>	<b>6,600</b>	<100	<0.01	<100	<b>640</b>
	12/09/14	<b>2,300</b>	<b>2,600</b>	<b>2,600</b>	<b>12,000</b>	<100	<0.01	<100	<b>1,170</b>
	01/19/16	NAPL - Not Sampled							
	07/14/16	NAPL - Not Sampled							
	11/03/16	NAPL - Not Sampled							
	03/15/19	NAPL - Not Sampled							
MW-10	07/22/14	<b>4,200</b>	<b>5,900</b>	<b>2,700</b>	<b>10,000</b>	<b>170</b>	<0.01	<100	<b>940</b>
	12/09/14	<b>3,900</b>	<b>2,000</b>	<b>2,000</b>	<b>6,100</b>	<100	<0.01	<100	<b>410</b>
	01/19/16	NAPL - Not Sampled							
	07/14/16	NAPL - Not Sampled							
	11/03/16	NAPL - Not Sampled							
	03/26/19	<b>6,600</b>	850	<b>1,200</b>	<b>2,300</b>	76	<0.0093	<b>51</b>	<b>600</b>
MW-11	07/22/14	<b>10,000</b>	<b>16,000</b>	<b>2,600</b>	<b>11,000</b>	<b>330</b>	<0.01	<100	<b>1,090</b>
	12/09/14	NAPL - Not Sampled							
	01/19/16	NAPL - Not Sampled							
	07/14/16	NAPL - Not Sampled							
	11/03/16	NAPL - Not Sampled							
	03/15/19	NAPL - Not Sampled							
MW-12	08/21/14	<b>1,800</b>	110	340	<b>810</b>	<b>230</b>	<0.01	<10	<b>71</b>
	12/09/14	<b>1,900</b>	310	470	<b>710</b>	<b>100</b>	<0.01	<50	<200
	01/19/16	No Access - Not Sampled							
	07/14/16	No Access - Not Sampled							
	11/03/16	No Access - Not Sampled							
	07/06/17	No Access - Not Sampled							
	10/16/17	<b>280</b>	NA	140	69	36	NA	NA	<b>69</b>

**TABLE 4a. SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	EDB	EDC	Total Naphthalenes*
<b>NMAC 20.6.2.3103 / NMPSTR Standards</b>		5	1000	750	620	100	0.05	5	30
MW-13	07/06/17	<b>1,900</b>	11	190	<15	<10	<10	<10	<b>36</b>
	07/18/14	<b>130</b>	<10	35	24	<10	<0.01	<10	<b>65</b>
	12/09/14	<b>420</b>	5.0	78	90	<5.0	<0.01	<5.0	24
	01/19/16	<i>No Access - Not Sampled</i>							
	07/14/16	<b>1,900</b>	13	280	71	9.5	<1.0	<1.0	<b>66</b>
	11/03/16	<b>1,900</b>	18	220	73	10	<10	<10	<b>59</b>
	03/26/19	<b>220</b>	<2.0	21	<3.0	<2.0	<0.0095	<2.0	<20
MW-14	08/21/14	<b>480</b>	210	65	160	<10	<b>2.3</b>	<b>84</b>	25
	12/09/14	<b>780</b>	<b>1,700</b>	290	<b>1,700</b>	<100	<b>15</b>	<b>170</b>	<b>200</b>
	01/19/16	<i>NAPL - Not Sampled</i>							
	07/14/16	<i>NAPL - Not Sampled</i>							
	11/03/16	<i>NAPL - Not Sampled</i>							
	03/15/19	<i>NAPL - Not Sampled</i>							
MW-15	07/14/16	<i>NAPL - Not Sampled</i>							
	11/03/16	<i>NAPL - Not Sampled</i>							
	03/15/19	<i>NAPL - Not Sampled</i>							
MW-16	07/14/16	<b>67</b>	78	150	290	<1.0	<1.0	<1.0	<b>107</b>
	11/03/16	<b>73</b>	23	80	110	3.4	<1.0	<1.0	<b>69</b>
	07/06/17	<b>1,700</b>	490	450	500	29	<1.0	<1.0	<b>199</b>
	03/26/19	<b>440</b>	290	390	510	15	<0.0095	<10	<b>72</b>
MW-17	07/14/16	<1.0	<1.0	<1.0	<1.5	<i>co</i>	<1.0	<1.0	<4.0
	11/03/16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0
	07/06/17	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0
	03/22/19	<1.0	<1.0	<1.0	<1.5	<1.0	<0.0095	<1.0	<10.0
MW-18	07/14/16	<b>1,800</b>	610	<b>1,500</b>	<b>4,300</b>	<1.0	<1.0	<1.0	<b>676</b>
	11/03/16	<i>NAPL - Not Sampled</i>							
	03/15/19	<i>NAPL - Not Sampled</i>							
MW-19	07/14/16	<b>75</b>	160	45	110	<1.0	<1.0	3.2	<b>33</b>
	11/03/16	<b>20</b>	2.3	<1.0	5.7	<1.0	<1.0	1.4	<4.0
	07/06/17	<b>27</b>	1.7	<1.0	5.1	<1.0	<1.0	2.2	2.2
	03/22/19	<b>5.7</b>	<1.0	<1.0	<1.0	<1.0	<0.0094	<1.0	<10.0
MW-20	07/14/16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0
	11/03/16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0
	07/06/17	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0
	03/22/19	<1.0	<1.0	<1.0	<1.5	<1.0	<0.0093	<1.0	<10.0

**TABLE 4a. SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	EDB	EDC	Total Naphthalenes*
<b>NMAC 20.6.2.3103 / NMPSTR Standards</b>		5	1000	750	620	100	0.05	5	30
MW-21	07/14/16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	1.1	<4.0
	11/03/16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0
	07/06/17	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0
	03/22/19	<1.0	<1.0	<1.0	<1.5	<1.0	<0.0095	<1.0	<10.0
MW-22	03/22/19	<1.0	<1.0	11	<1.5	<1.0	<0.0095	<1.0	<10.0
MW-23	03/22/19	<1.0	<1.0	<1.0	<1.5	<1.0	<0.0095	<1.0	<10.0
MW-24	03/15/19	Installation pending access							
MW-25	03/15/19	Installation pending access							
MW-26	03/22/19	<2.0	<2.0	<2.0	<3.0	<2.0	<0.0095	<2.0	<20.0
MW-27	03/26/19	<b>150</b>	30	2.3	100	<1.0	<0.0094	<1.0	<b>132</b>
MW-28	03/15/19	NAPL - Not Sampled							
MW-29	03/26/19	NAPL - Not Sampled							
MW-30	03/26/19	NAPL - Not Sampled							
MW-31	03/15/19	NAPL Sheen - Not Sampled							

NOTES:

Data in italics collected by previous consultants (Terracon, EA, GES)

All concentrations in micrograms per liter (ug/L) which is equivalent to parts per billion (ppb)

All samples analyzed for volatile organic compounds by EPA method 8260B

EDB = Ethylene dibromide; Sample was analyzed for EDB using EPA method 504.1

EDC = Ethylene dichloride

MTBE = Methyl tertiary butyl ether

NA = Not analyzed

\* Standard for Total Naphthalenes = sum of Naphthalenes, 1-Methylnaphthalenes, and 2-Methylnaphthalenes

<sup>1</sup> = Naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene were analyzed by EPA method 8270C prior to December 2014

**TABLE 4b. SUMMARY OF GROUNDWATER SAMPLE FIELD MEASUREMENTS  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Well Number	Date Sampled	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)
MW-1	1/19/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	Well Not Found			
MW-2	1/19/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	NAPL - Not Measured			
MW-3	1/19/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	NAPL - Not Measured			
MW-4	1/19/16	6.74	706	16.0	NM
	7/13/16	7.10	1,624	15.9	NM
	11/3/16	7.14	1,375	16.1	2.32
	7/6/17	7.24	1,312	16.4	1.12
	3/22/19	7.99	1,081	17.2	NM
MW-5	1/19/16	7.18	1,808	15.8	NM
	7/14/16	7.14	1,600	15.6	NM
	11/3/16	7.26	2,110	17.1	1.90
	7/6/17	7.27	2,070	18.8	0.98
	3/26/19	7.39	1,908	11.3	NM
MW-6	1/19/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	11/3/16	NAPL - Not Measured			
	7/6/17	7.13	2,600	18.4	1.07
	3/22/19	NAPL sheen - Not Measured			
MW-7	1/19/16	7.17	1,069	16.6	NM
	7/14/16	7.10	1,088	16.0	NM
	11/3/16	7.18	1,259	17.5	1.66
	7/6/17	7.71	1,295	16.9	1.07
	3/22/19	7.29	1,188	15.4	NM
MW-8	1/19/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	NAPL - Not Measured			



**TABLE 4b. SUMMARY OF GROUNDWATER SAMPLE FIELD MEASUREMENTS  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Well Number	Date Sampled	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)
MW-9	1/19/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	NAPL - Not Measured			
MW-10	1/19/16	6.86	1,642	16.2	NM
	7/14/16	NAPL - Not Measured			
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/26/19	7.21	1719	16.5	NM
MW-11	1/19/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	NAPL - Not Measured			
MW-12	1/19/16	No Access			
	7/14/16	No Access			
	11/3/16	No Access			
	7/6/17	No Access			
	3/22/19	No Access			
MW-13	11/3/16	7.26	1,830	15.3	4.17
	7/14/16	7.24	1,584	14.8	NM
	1/19/16	No Access			
	7/6/17	7.37	2,280	15.9	1.03
	3/26/19	7.85	1335	14.0	NM
MW-14	1/19/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	7/14/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	NAPL - Not Measured			
MW-15	7/14/16	7.80	790	17.9	NM
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	NAPL - Not Measured			
MW-16	7/6/17	7.88	1,878	16.8	1.39
	7/14/16	7.75	770	16.3	NM
	11/3/16	7.45	1,278	16.7	2.19
	7/6/17	7.88	1,878	16.8	1.39
	3/26/19	7.49	1,146	14.5	NM

**TABLE 4b. SUMMARY OF GROUNDWATER SAMPLE FIELD MEASUREMENTS  
FAIRVIEW STATION, ESPANOLA, NEW MEXICO**

Well Number	Date Sampled	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)
MW-17	7/14/16	7.65	682	16.8	NM
	11/3/16	7.34	895.5	16.7	5.22
	7/6/17	6.98	1,176	16.1	4.31
	3/22/19	7.99	869.0	17.7	NM
MW-18	7/14/16	7.81	951	16.4	NM
	11/3/16	NAPL - Not Measured			
	7/6/17	NAPL - Not Measured			
	3/22/19	NAPL - Not Measured			
MW-19	7/14/16	7.70	1,758	16.8	NM
	11/3/16	7.16	4,050	16.6	2.16
	7/6/17	7.17	5,970	16.6	0.98
	3/22/19	7.71	3,385	16.6	NM
MW-20	7/14/16	7.71	5,380	17.7	NM
	11/3/16	6.98	7,850	17.6	1.78
	7/6/17	7.04	7,030	16.9	1.94
	3/22/19	6.47	>3,999	15.3	NM
MW-21	7/14/16	7.71	966	18.3	NM
	11/3/16	7.07	6,230	17.1	2.05
	7/6/17	6.93	5,390	17.1	2.23
	3/22/19	6.45	>3,999	14.8	NM
MW-22	3/22/19	7.53	2,476	15.2	NM
MW-23	3/22/19	7.61	1,772	15.5	NM
MW-26	3/22/19	7.71	901	15.5	NM
MW-27	3/26/19	7.77	900	14.1	NM
MW-28	3/22/19	NAPL - Not Measured			
MW-29	3/22/19	NAPL - Not Measured			
MW-30	3/22/19	NAPL - Not Measured			
MW-31	3/26/19	NAPL sheen - Not Measured			

NOTES:

Data in italics collected by previous consultant (EA)

DO = Dissolved oxygen

mg/L = Milligrams per liter

NAPL = Non-aqueous phase liquid

SpC = Specific conductance

uS/cm = Microsiemens per centimeter

## **Appendix 1**

# **Sampling Protocol**

## Groundwater Sampling Protocol

Groundwater samples were collected as established in the New Mexico Underground Storage Tank Bureau Guidelines for Corrective Action promulgated March 2000.

Water levels were measured prior to sample collection using a clean water level probe beginning with least contaminated, or clean monitoring wells to the most contaminated monitoring wells. Water levels of each monitoring well were recorded on a field form or in the field notebook. The water level probe was rinsed with distilled water prior to measuring the water level in each monitoring well. A cleaned oil/water interface probe was used to measure fluid levels in wells suspected to have NAPL.

Prior to collection of samples, monitoring wells were purged of three well bore volumes using a new disposable high-density polyethylene (HDPE) bailer. The purged water was disposed of on concrete surfaces within the boundaries of the property and allowed to evaporate.

After purging, field parameters were then measured in each monitoring well using a calibrated YSI meter. Measured parameters included:

- pH
- eC (specific conductance)
- temperature

Following collection of field parameters, groundwater samples were collected into the following laboratory-provided containers with appropriate preservatives for the following analyses:

- **EPA Method 8260** – Samples were collected in three-40-ml VOAs preserved with mercuric chloride. All VOAs were checked to ensure no headspace was present prior to labeling and securing the bottles.
- **EPA Method 504.1** – Samples were collected in two-40-ml VOAs preserved with sodium thiosulfate. All VOAs were checked to ensure no headspace was present prior to labeling and securing the bottles.
- **EPA Method 8310** – Samples were collected in one 1-Liter glass amber bottle.

Following collection, all samples were labeled with the date, time, site and sample identification, the initials of the sampler, and the desired laboratory analysis. The samples were then stored on ice in a cooler for hand-delivery to the analytical laboratory.

Sample ID were recorded on chain of custody forms prior to delivery to Hall Environmental Analysis Laboratory.



## Appendix 2

### Field Notes

Fairview Station State Lead

Job # 3426622

Date: 5/22/19 & 3/26/19

Time On-site: 7:15

Time Off-site:

Sampled by: EMM & CP

Weather conditions:

Equipment Used:

HANNA pH/EC (calibrated 1000) \* HANNA cal 0745

Monitoring Well Data

MW ID	Total Depth	Sam. Order	DTP	DTW	Gallons		Sampling Time	Cond.	Temp.	pH	Remarks
					to purge	purged					
MW-1		21									NOT FOUND
MW-2	NM	20	15.83	19.29							5.25 gal NAPL Pumped 0.88' NAPL AFTER 2.75 gal. PUMPED 0.08' THICKNESS AFTER
MW-3	NM	19	15.70	20.73							
MW-4	27.1	7		15.75	5.7		1155	1081	17.2	7.79	Cloudy/No odor/sort silt
MW-5	22.1	17		15.12	3.5	1.3/3.5	0811	1108	16.7	7.39	* or obstruction? black mud, strong odor
MW-6	23.9	13		15.53	4.2	4.3					Noticeable sheen/strong odor did Not sample
MW-7	24.7	14		15.78	4.5	4.6	1255	1188	15.4	7.29	murky black, strong odor
MW-8	NM	26	16.29	20.27							1.75 gal Pumped 0.08' NAPL T. AFTER END 0.01' NAPL AFTER NEGL. VOL. RECOVERED
MW-9	NM	27	17.23	17.36							strong odor, black
MW-10	24.2	25		17.34	3.4	3.6	0940	1719	16.5	7.21	2 gal NAPL Pumped ENDING THICKNESS 0.50'
MW-11	NM	30	17.15	19.08							brown, milky, no odor
MW-13	23.2	16		15.13	4.0	4.0	8:45	1335	14.0	7.85	0.5 gal NAPL Pumped
MW-14	18.1	12	16.68	17.64							4.25 gal NAPL Pumped 0.31' END THICKNESS
MW-15	23.9	18	15.49	20.63							grayish, slight-mod. odor
MW-16	23.6	15		15.40	4.1	4.3	0915	1146	14.8	7.49	milky brown, no odor
MW-17	24.9	8		16.04	4.4	4.4	1150	869	17.7	7.99	0.75 gal NAPL Pumped 0.02' AFTER THICK.
MW-18	NM	11	16.50	19.20							cloudy/Mod HC odor
MW-19	25.6	10		16.34	4.6		1220	3385	16.6	7.71	slight odor, cloudy clear
MW-20	25.1	2		16.67	4.2	4.3	1045	7399	15.3	6.47	slight odor/cloudy
MW-21	26.8	1		15.66	5.6	3.1/5.6	1050	7377	14.8	6.45	
MW-22	27.0	6		15.46	5.8	5.9	1120	2476	15.2	7.53	slight-no odor, muddy, silty
MW-23	27.3	5		15.93	5.7	5.9	1123	1772	15.5	7.61	cloudy brown No odor
MW-24		4									NOT YET INSTALLED
MW-25		3									NOT INSTALLED
MW-26	25.6	9		16.42	4.6	4.66	1220	901	15.5	7.71	no odor, murky brown
MW-27	25.9	29		16.39	4.8	4.9	1006 1220	900 101	14.1 15.5	7.77	milky, moderate odor
MW-28	NM	28	15.43	19.34							2.5 gal NAPL pumped
MW-29	NM	22	15.15	15.24							NAPL odor when cover removed; NAPL odor before cover, must rainbow sheen, did not sample
MW-30	NM	23	13.73	18.61							
MW-31	NM	24		15.27							

Notes:

8260B, 504.1

= NAPL likely

Gauging + NAPL Recovery on 3/15/19

## **Appendix 3**

### **Laboratory Analytical Report**





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 02, 2019

Alan Eschenbacher  
Souder, Miller & Associates  
2904 Rodeo Park Drive East  
Building 100  
Santa Fe, NM 87505  
TEL: (505) 473-9211  
FAX (505) 471-6675

RE: Fairview Station

OrderNo.: 1903B14

Dear Alan Eschenbacher:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/22/2019 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](http://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 in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-4

**Project:** Fairview Station

**Collection Date:** 3/22/2019 11:55:00 AM

**Lab ID:** 1903B14-001

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0095		µg/L	1	3/25/2019 10:29:56 PM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Toluene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Ethylbenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Methyl tert-butyl ether (MTBE)	3.3	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Naphthalene	ND	2.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Acetone	ND	10		µg/L	1	3/28/2019 4:19:00 PM	R58723
Bromobenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Bromoform	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Bromomethane	ND	3.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
2-Butanone	ND	10		µg/L	1	3/28/2019 4:19:00 PM	R58723
Carbon disulfide	ND	10		µg/L	1	3/28/2019 4:19:00 PM	R58723
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Chlorobenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Chloroethane	ND	2.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Chloroform	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Chloromethane	ND	3.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Dibromomethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-4

**Project:** Fairview Station

**Collection Date:** 3/22/2019 11:55:00 AM

**Lab ID:** 1903B14-001

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
2-Hexanone	ND	10		µg/L	1	3/28/2019 4:19:00 PM	R58723
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2019 4:19:00 PM	R58723
Methylene Chloride	ND	3.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
n-Butylbenzene	ND	3.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Styrene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Vinyl chloride	ND	1.0		µg/L	1	3/28/2019 4:19:00 PM	R58723
Xylenes, Total	ND	1.5		µg/L	1	3/28/2019 4:19:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	3/28/2019 4:19:00 PM	R58723
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	3/28/2019 4:19:00 PM	R58723
Surr: Dibromofluoromethane	98.8	70-130		%Rec	1	3/28/2019 4:19:00 PM	R58723
Surr: Toluene-d8	96.7	70-130		%Rec	1	3/28/2019 4:19:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-7

**Project:** Fairview Station

**Collection Date:** 3/22/2019 12:55:00 PM

**Lab ID:** 1903B14-002

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0099		µg/L	1	3/25/2019 10:44:54 PM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	7300	500		µg/L	500	3/29/2019 10:48:00 AM	W58768
Toluene	1300	500		µg/L	500	3/29/2019 10:48:00 AM	W58768
Ethylbenzene	460	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Methyl tert-butyl ether (MTBE)	4500	500		µg/L	500	3/29/2019 10:48:00 AM	W58768
1,2,4-Trimethylbenzene	420	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,3,5-Trimethylbenzene	82	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Naphthalene	97	10		µg/L	5	3/28/2019 4:43:00 PM	R58723
1-Methylnaphthalene	35	20		µg/L	5	3/28/2019 4:43:00 PM	R58723
2-Methylnaphthalene	ND	20		µg/L	5	3/28/2019 4:43:00 PM	R58723
Acetone	ND	50		µg/L	5	3/28/2019 4:43:00 PM	R58723
Bromobenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Bromodichloromethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Bromoform	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Bromomethane	ND	15		µg/L	5	3/28/2019 4:43:00 PM	R58723
2-Butanone	ND	50		µg/L	5	3/28/2019 4:43:00 PM	R58723
Carbon disulfide	ND	50		µg/L	5	3/28/2019 4:43:00 PM	R58723
Carbon Tetrachloride	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Chlorobenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Chloroethane	ND	10		µg/L	5	3/28/2019 4:43:00 PM	R58723
Chloroform	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Chloromethane	ND	15		µg/L	5	3/28/2019 4:43:00 PM	R58723
2-Chlorotoluene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
4-Chlorotoluene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
cis-1,2-DCE	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	3/28/2019 4:43:00 PM	R58723
Dibromochloromethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Dibromomethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,2-Dichlorobenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,3-Dichlorobenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,4-Dichlorobenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Dichlorodifluoromethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,1-Dichloroethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,1-Dichloroethene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,2-Dichloropropane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-7

**Project:** Fairview Station

**Collection Date:** 3/22/2019 12:55:00 PM

**Lab ID:** 1903B14-002

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
2,2-Dichloropropane	ND	10		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,1-Dichloropropene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Hexachlorobutadiene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
2-Hexanone	ND	50		µg/L	5	3/28/2019 4:43:00 PM	R58723
Isopropylbenzene	13	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
4-Isopropyltoluene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
4-Methyl-2-pentanone	ND	50		µg/L	5	3/28/2019 4:43:00 PM	R58723
Methylene Chloride	ND	15		µg/L	5	3/28/2019 4:43:00 PM	R58723
n-Butylbenzene	ND	15		µg/L	5	3/28/2019 4:43:00 PM	R58723
n-Propylbenzene	28	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
sec-Butylbenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Styrene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
tert-Butylbenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	3/28/2019 4:43:00 PM	R58723
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
trans-1,2-DCE	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,1,1-Trichloroethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,1,2-Trichloroethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Trichloroethene (TCE)	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Trichlorofluoromethane	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
1,2,3-Trichloropropane	ND	10		µg/L	5	3/28/2019 4:43:00 PM	R58723
Vinyl chloride	ND	5.0		µg/L	5	3/28/2019 4:43:00 PM	R58723
Xylenes, Total	890	7.5		µg/L	5	3/28/2019 4:43:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	5	3/28/2019 4:43:00 PM	R58723
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	3/28/2019 4:43:00 PM	R58723
Surr: Dibromofluoromethane	93.9	70-130		%Rec	5	3/28/2019 4:43:00 PM	R58723
Surr: Toluene-d8	99.2	70-130		%Rec	5	3/28/2019 4:43:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-17

**Project:** Fairview Station

**Collection Date:** 3/22/2019 11:50:00 AM

**Lab ID:** 1903B14-003

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0095		µg/L	1	3/25/2019 10:59:51 PM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Toluene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Ethylbenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Naphthalene	ND	2.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1-Methylnaphthalene	ND	4.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
2-Methylnaphthalene	ND	4.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Acetone	ND	10		µg/L	1	3/29/2019 11:12:00 AM	W58768
Bromobenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Bromodichloromethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Bromoform	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Bromomethane	ND	3.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
2-Butanone	ND	10		µg/L	1	3/29/2019 11:12:00 AM	W58768
Carbon disulfide	ND	10		µg/L	1	3/29/2019 11:12:00 AM	W58768
Carbon Tetrachloride	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Chlorobenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Chloroethane	ND	2.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Chloroform	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Chloromethane	ND	3.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
2-Chlorotoluene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
4-Chlorotoluene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
cis-1,2-DCE	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Dibromochloromethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Dibromomethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,1-Dichloroethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,1-Dichloroethene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2-Dichloropropane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-17

**Project:** Fairview Station

**Collection Date:** 3/22/2019 11:50:00 AM

**Lab ID:** 1903B14-003

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
2,2-Dichloropropane	ND	2.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,1-Dichloropropene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Hexachlorobutadiene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
2-Hexanone	ND	10		µg/L	1	3/29/2019 11:12:00 AM	W58768
Isopropylbenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
4-Isopropyltoluene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
4-Methyl-2-pentanone	ND	10		µg/L	1	3/29/2019 11:12:00 AM	W58768
Methylene Chloride	ND	3.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
n-Butylbenzene	ND	3.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
n-Propylbenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
sec-Butylbenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Styrene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
tert-Butylbenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
trans-1,2-DCE	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Trichlorofluoromethane	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Vinyl chloride	ND	1.0		µg/L	1	3/29/2019 11:12:00 AM	W58768
Xylenes, Total	ND	1.5		µg/L	1	3/29/2019 11:12:00 AM	W58768
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	3/29/2019 11:12:00 AM	W58768
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	3/29/2019 11:12:00 AM	W58768
Surr: Dibromofluoromethane	96.7	70-130		%Rec	1	3/29/2019 11:12:00 AM	W58768
Surr: Toluene-d8	99.1	70-130		%Rec	1	3/29/2019 11:12:00 AM	W58768

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-19

**Project:** Fairview Station

**Collection Date:** 3/22/2019 12:20:00 PM

**Lab ID:** 1903B14-004

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0094		µg/L	1	3/25/2019 11:14:47 PM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	5.7	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Toluene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Ethylbenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2,4-Trimethylbenzene	1.3	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Naphthalene	ND	2.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Acetone	ND	10		µg/L	1	3/28/2019 5:31:00 PM	R58723
Bromobenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Bromoform	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Bromomethane	ND	3.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
2-Butanone	ND	10		µg/L	1	3/28/2019 5:31:00 PM	R58723
Carbon disulfide	ND	10		µg/L	1	3/28/2019 5:31:00 PM	R58723
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Chlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Chloroethane	ND	2.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Chloroform	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Chloromethane	ND	3.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Dibromomethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-19

**Project:** Fairview Station

**Collection Date:** 3/22/2019 12:20:00 PM

**Lab ID:** 1903B14-004

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
2-Hexanone	ND	10		µg/L	1	3/28/2019 5:31:00 PM	R58723
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2019 5:31:00 PM	R58723
Methylene Chloride	ND	3.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
n-Butylbenzene	ND	3.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Styrene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Vinyl chloride	ND	1.0		µg/L	1	3/28/2019 5:31:00 PM	R58723
Xylenes, Total	ND	1.5		µg/L	1	3/28/2019 5:31:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	3/28/2019 5:31:00 PM	R58723
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	3/28/2019 5:31:00 PM	R58723
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	3/28/2019 5:31:00 PM	R58723
Surr: Toluene-d8	97.2	70-130		%Rec	1	3/28/2019 5:31:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-20

**Project:** Fairview Station

**Collection Date:** 3/22/2019 10:45:00 AM

**Lab ID:** 1903B14-005

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0093		µg/L	1	3/25/2019 11:29:46 PM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Toluene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Ethylbenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Naphthalene	ND	2.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Acetone	ND	10		µg/L	1	3/28/2019 5:55:00 PM	R58723
Bromobenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Bromoform	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Bromomethane	ND	3.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
2-Butanone	ND	10		µg/L	1	3/28/2019 5:55:00 PM	R58723
Carbon disulfide	ND	10		µg/L	1	3/28/2019 5:55:00 PM	R58723
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Chlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Chloroethane	ND	2.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Chloroform	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Chloromethane	ND	3.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Dibromomethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-20

**Project:** Fairview Station

**Collection Date:** 3/22/2019 10:45:00 AM

**Lab ID:** 1903B14-005

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
2-Hexanone	ND	10		µg/L	1	3/28/2019 5:55:00 PM	R58723
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2019 5:55:00 PM	R58723
Methylene Chloride	ND	3.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
n-Butylbenzene	ND	3.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Styrene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Vinyl chloride	ND	1.0		µg/L	1	3/28/2019 5:55:00 PM	R58723
Xylenes, Total	ND	1.5		µg/L	1	3/28/2019 5:55:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	3/28/2019 5:55:00 PM	R58723
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/28/2019 5:55:00 PM	R58723
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	3/28/2019 5:55:00 PM	R58723
Surr: Toluene-d8	99.5	70-130		%Rec	1	3/28/2019 5:55:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-21

**Project:** Fairview Station

**Collection Date:** 3/22/2019 10:50:00 AM

**Lab ID:** 1903B14-006

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0095		µg/L	1	3/25/2019 11:59:33 PM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Toluene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Ethylbenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Naphthalene	ND	2.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Acetone	ND	10		µg/L	1	3/28/2019 6:19:00 PM	R58723
Bromobenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Bromoform	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Bromomethane	ND	3.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
2-Butanone	ND	10		µg/L	1	3/28/2019 6:19:00 PM	R58723
Carbon disulfide	ND	10		µg/L	1	3/28/2019 6:19:00 PM	R58723
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Chlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Chloroethane	ND	2.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Chloroform	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Chloromethane	ND	3.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Dibromomethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

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Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-21

**Project:** Fairview Station

**Collection Date:** 3/22/2019 10:50:00 AM

**Lab ID:** 1903B14-006

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
2-Hexanone	ND	10		µg/L	1	3/28/2019 6:19:00 PM	R58723
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2019 6:19:00 PM	R58723
Methylene Chloride	ND	3.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
n-Butylbenzene	ND	3.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Styrene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Vinyl chloride	ND	1.0		µg/L	1	3/28/2019 6:19:00 PM	R58723
Xylenes, Total	ND	1.5		µg/L	1	3/28/2019 6:19:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	3/28/2019 6:19:00 PM	R58723
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/28/2019 6:19:00 PM	R58723
Surr: Dibromofluoromethane	96.9	70-130		%Rec	1	3/28/2019 6:19:00 PM	R58723
Surr: Toluene-d8	97.3	70-130		%Rec	1	3/28/2019 6:19:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-22

**Project:** Fairview Station

**Collection Date:** 3/22/2019 11:20:00 AM

**Lab ID:** 1903B14-007

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0095		µg/L	1	3/26/2019 12:14:25 AM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Toluene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Ethylbenzene	11	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2,4-Trimethylbenzene	5.4	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,3,5-Trimethylbenzene	6.9	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Naphthalene	ND	2.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Acetone	ND	10		µg/L	1	3/28/2019 6:43:00 PM	R58723
Bromobenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Bromoform	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Bromomethane	ND	3.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
2-Butanone	ND	10		µg/L	1	3/28/2019 6:43:00 PM	R58723
Carbon disulfide	ND	10		µg/L	1	3/28/2019 6:43:00 PM	R58723
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Chlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Chloroethane	ND	2.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Chloroform	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Chloromethane	ND	3.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Dibromomethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-22

**Project:** Fairview Station

**Collection Date:** 3/22/2019 11:20:00 AM

**Lab ID:** 1903B14-007

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
2-Hexanone	ND	10		µg/L	1	3/28/2019 6:43:00 PM	R58723
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2019 6:43:00 PM	R58723
Methylene Chloride	ND	3.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
n-Butylbenzene	ND	3.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Styrene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Vinyl chloride	ND	1.0		µg/L	1	3/28/2019 6:43:00 PM	R58723
Xylenes, Total	ND	1.5		µg/L	1	3/28/2019 6:43:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	3/28/2019 6:43:00 PM	R58723
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	3/28/2019 6:43:00 PM	R58723
Surr: Dibromofluoromethane	99.4	70-130		%Rec	1	3/28/2019 6:43:00 PM	R58723
Surr: Toluene-d8	98.0	70-130		%Rec	1	3/28/2019 6:43:00 PM	R58723

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

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# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

CLIENT: Souder, Miller & Associates

Client Sample ID: MW-23

Project: Fairview Station

Collection Date: 3/22/2019 11:23:00 AM

Lab ID: 1903B14-008

Matrix: AQUEOUS

Received Date: 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0095		µg/L	1	3/26/2019 12:29:20 AM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Toluene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Ethylbenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Naphthalene	ND	2.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Acetone	ND	10		µg/L	1	3/28/2019 7:07:00 PM	R58723
Bromobenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Bromoform	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Bromomethane	ND	3.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
2-Butanone	ND	10		µg/L	1	3/28/2019 7:07:00 PM	R58723
Carbon disulfide	ND	10		µg/L	1	3/28/2019 7:07:00 PM	R58723
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Chlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Chloroethane	ND	2.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Chloroform	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Chloromethane	ND	3.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Dibromomethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-23

**Project:** Fairview Station

**Collection Date:** 3/22/2019 11:23:00 AM

**Lab ID:** 1903B14-008

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
2-Hexanone	ND	10		µg/L	1	3/28/2019 7:07:00 PM	R58723
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2019 7:07:00 PM	R58723
Methylene Chloride	ND	3.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
n-Butylbenzene	ND	3.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Styrene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Vinyl chloride	ND	1.0		µg/L	1	3/28/2019 7:07:00 PM	R58723
Xylenes, Total	ND	1.5		µg/L	1	3/28/2019 7:07:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	3/28/2019 7:07:00 PM	R58723
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/28/2019 7:07:00 PM	R58723
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	3/28/2019 7:07:00 PM	R58723
Surr: Toluene-d8	95.7	70-130		%Rec	1	3/28/2019 7:07:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-26

**Project:** Fairview Station

**Collection Date:** 3/22/2019 12:20:00 PM

**Lab ID:** 1903B14-009

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0095		µg/L	1	3/26/2019 12:44:10 AM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Toluene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Ethylbenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Naphthalene	ND	4.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1-Methylnaphthalene	ND	8.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
2-Methylnaphthalene	ND	8.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Acetone	ND	20		µg/L	2	3/28/2019 7:31:00 PM	R58723
Bromobenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Bromodichloromethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Bromoform	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Bromomethane	ND	6.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
2-Butanone	ND	20		µg/L	2	3/28/2019 7:31:00 PM	R58723
Carbon disulfide	ND	20		µg/L	2	3/28/2019 7:31:00 PM	R58723
Carbon Tetrachloride	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Chlorobenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Chloroethane	ND	4.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Chloroform	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Chloromethane	ND	6.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
2-Chlorotoluene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
4-Chlorotoluene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
cis-1,2-DCE	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Dibromochloromethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Dibromomethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2-Dichlorobenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,3-Dichlorobenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,4-Dichlorobenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Dichlorodifluoromethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,1-Dichloroethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,1-Dichloroethene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2-Dichloropropane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-26

**Project:** Fairview Station

**Collection Date:** 3/22/2019 12:20:00 PM

**Lab ID:** 1903B14-009

**Matrix:** AQUEOUS

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
2,2-Dichloropropane	ND	4.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,1-Dichloropropene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Hexachlorobutadiene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
2-Hexanone	ND	20		µg/L	2	3/28/2019 7:31:00 PM	R58723
Isopropylbenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
4-Isopropyltoluene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
4-Methyl-2-pentanone	ND	20		µg/L	2	3/28/2019 7:31:00 PM	R58723
Methylene Chloride	ND	6.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
n-Butylbenzene	ND	6.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
n-Propylbenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
sec-Butylbenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Styrene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
tert-Butylbenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
trans-1,2-DCE	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,1,1-Trichloroethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,1,2-Trichloroethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Trichloroethene (TCE)	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Trichlorofluoromethane	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
1,2,3-Trichloropropane	ND	4.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Vinyl chloride	ND	2.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Xylenes, Total	ND	3.0		µg/L	2	3/28/2019 7:31:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	2	3/28/2019 7:31:00 PM	R58723
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	2	3/28/2019 7:31:00 PM	R58723
Surr: Dibromofluoromethane	98.0	70-130		%Rec	2	3/28/2019 7:31:00 PM	R58723
Surr: Toluene-d8	97.6	70-130		%Rec	2	3/28/2019 7:31:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** Trip Blank

**Project:** Fairview Station

**Collection Date:**

**Lab ID:** 1903B14-010

**Matrix:** TRIP BLANK

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: CLP
1,2-Dibromoethane	ND	0.0094		µg/L	1	3/26/2019 12:59:00 AM	43849
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Toluene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Ethylbenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Naphthalene	ND	2.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Acetone	ND	10		µg/L	1	3/28/2019 7:55:00 PM	R58723
Bromobenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Bromoform	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Bromomethane	ND	3.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
2-Butanone	ND	10		µg/L	1	3/28/2019 7:55:00 PM	R58723
Carbon disulfide	ND	10		µg/L	1	3/28/2019 7:55:00 PM	R58723
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Chlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Chloroethane	ND	2.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Chloroform	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Chloromethane	ND	3.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Dibromomethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903B14

Date Reported: 4/2/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** Trip Blank

**Project:** Fairview Station

**Collection Date:**

**Lab ID:** 1903B14-010

**Matrix:** TRIP BLANK

**Received Date:** 3/22/2019 2:41:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
2-Hexanone	ND	10		µg/L	1	3/28/2019 7:55:00 PM	R58723
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2019 7:55:00 PM	R58723
Methylene Chloride	ND	3.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
n-Butylbenzene	ND	3.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Styrene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Vinyl chloride	ND	1.0		µg/L	1	3/28/2019 7:55:00 PM	R58723
Xylenes, Total	ND	1.5		µg/L	1	3/28/2019 7:55:00 PM	R58723
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	3/28/2019 7:55:00 PM	R58723
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/28/2019 7:55:00 PM	R58723
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	3/28/2019 7:55:00 PM	R58723
Surr: Toluene-d8	96.4	70-130		%Rec	1	3/28/2019 7:55:00 PM	R58723

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903B14

02-Apr-19

**Client:** Souder, Miller & Associates

**Project:** Fairview Station

Sample ID: <b>MB-43849</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8011/504.1: EDB</b>								
Client ID: <b>PBW</b>	Batch ID: <b>43849</b>	RunNo: <b>58611</b>								
Prep Date: <b>3/23/2019</b>	Analysis Date: <b>3/25/2019</b>	SeqNo: <b>1967731</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: <b>LCS-43849</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8011/504.1: EDB</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>43849</b>	RunNo: <b>58611</b>								
Prep Date: <b>3/23/2019</b>	Analysis Date: <b>3/25/2019</b>	SeqNo: <b>1967733</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.093	0.010	0.1000	0	93.5	70	130			

**Qualifiers:**

H Holding times for preparation or analysis exceeded  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903B14

02-Apr-19

**Client:** Souder, Miller & Associates

**Project:** Fairview Station

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R58723	RunNo: 58723								
Prep Date:	Analysis Date: 3/28/2019	SeqNo: 1972441	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.3	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	93.8	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.7	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.9	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R58723	RunNo: 58723								
Prep Date:	Analysis Date: 3/28/2019	SeqNo: 1972442	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								

**Qualifiers:**

H Holding times for preparation or analysis exceeded  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903B14

02-Apr-19

**Client:** Souder, Miller & Associates

**Project:** Fairview Station

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R58723</b>	RunNo: <b>58723</b>								
Prep Date:	Analysis Date: <b>3/28/2019</b>	SeqNo: <b>1972442</b>	Units: <b>µg/L</b>							
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:**

H Holding times for preparation or analysis exceeded  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903B14

02-Apr-19

**Client:** Souder, Miller & Associates

**Project:** Fairview Station

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R58723</b>	RunNo: <b>58723</b>								
Prep Date:	Analysis Date: <b>3/28/2019</b>	SeqNo: <b>1972442</b>	Units: <b>µg/L</b>							
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	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.2	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>W58768</b>	RunNo: <b>58768</b>								
Prep Date:	Analysis Date: <b>3/29/2019</b>	SeqNo: <b>1974517</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.4	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.3	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	94.4	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.9	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>W58768</b>	RunNo: <b>58768</b>								
Prep Date:	Analysis Date: <b>3/29/2019</b>	SeqNo: <b>1974518</b>	Units: <b>µg/L</b>							
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								

**Qualifiers:**

H Holding times for preparation or analysis exceeded  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903B14

02-Apr-19

Client: Souder, Miller &amp; Associates

Project: Fairview Station

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>W58768</b>	RunNo: <b>58768</b>								
Prep Date:	Analysis Date: <b>3/29/2019</b>	SeqNo: <b>1974518</b> Units: <b>µg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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								

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903B14

02-Apr-19

Client: Souder, Miller &amp; Associates

Project: Fairview Station

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode



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

# Sample Log-In Check List

Client Name: SMA-SF

Work Order Number: 1903B14

RcptNo: 1

Received By: Andy Freeman 3/22/2019 2:41:00 PM

Completed By: Isaiah Ortiz 3/22/2019 2:49:17 PM

Reviewed By: ENM 3/25/19

LB: DAD 3/25/19

*Andy*  
I-OX

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present

2. How was the sample delivered? Client

**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. VOA vials have zero headspace? Yes  No  No VOA Vials

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: DAD 3/25/19

**Special Handling (if applicable)**

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Not Present			

# Chain-of-Custody Record

Client: SMB

Mailing Address: SFO

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:  
Fairview Station

Project #:

Project Manager:  
Alan Eschebacher

Sampler: C. Parker + E. Mayh

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 22.0

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3/22/19	1155	H <sub>2</sub> O	MW-4	S Voa		1903B14
	1255		MW-7			-001
	1150		MW-17			-002
	1220		MW-19	6 Voe		-003
	1045		MW-20	5 Voe		-004
	1050		MW-21			-005
	1120		MW-22			-006
	1125		MW-23			-007
	1220		MW-26			-008
			Trip			-009
						-010

BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		

## Analysis Request

Project Manager:

Sampler:

On Ice:

# of Coolers:

Cooler Temp (including CF):

Container Type and #

Preservative Type

HEAL No.

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

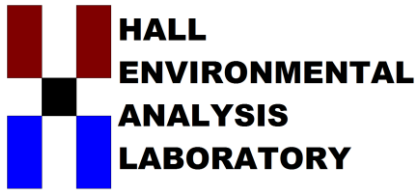
Relinquished by:

Date

Time

Remarks:

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.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 03, 2019

Alan Eschenbacher  
Souder, Miller & Associates  
2904 Rodeo Park Drive East  
Building 100  
Santa Fe, NM 87505  
TEL: (505) 473-9211  
FAX (505) 471-6675

RE: Fairview Station

OrderNo.: 1903C49

Dear Alan Eschenbacher:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/26/2019 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](http://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 in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-5

**Project:** Fairview Station

**Collection Date:** 3/26/2019 8:11:00 AM

**Lab ID:** 1903C49-001

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: <b>JME</b>
1,2-Dibromoethane	ND	0.0093		µg/L	1	4/1/2019 11:14:36 AM	43995
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>DJF</b>
Benzene	7900	200		µg/L	200	4/2/2019 4:22:48 PM	W58835
Toluene	660	200		µg/L	200	4/2/2019 4:22:48 PM	W58835
Ethylbenzene	540	200		µg/L	200	4/2/2019 4:22:48 PM	W58835
Methyl tert-butyl ether (MTBE)	1700	200		µg/L	200	4/2/2019 4:22:48 PM	W58835
1,2,4-Trimethylbenzene	230	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,3,5-Trimethylbenzene	39	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,2-Dichloroethane (EDC)	25	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Naphthalene	53	10		µg/L	5	3/30/2019 4:32:45 AM	W58773
1-Methylnaphthalene	30	20		µg/L	5	3/30/2019 4:32:45 AM	W58773
2-Methylnaphthalene	ND	20		µg/L	5	3/30/2019 4:32:45 AM	W58773
Acetone	ND	50		µg/L	5	3/30/2019 4:32:45 AM	W58773
Bromobenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Bromodichloromethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Bromoform	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Bromomethane	ND	15		µg/L	5	3/30/2019 4:32:45 AM	W58773
2-Butanone	ND	50		µg/L	5	3/30/2019 4:32:45 AM	W58773
Carbon disulfide	ND	50		µg/L	5	3/30/2019 4:32:45 AM	W58773
Carbon Tetrachloride	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Chlorobenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Chloroethane	ND	10		µg/L	5	3/30/2019 4:32:45 AM	W58773
Chloroform	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Chloromethane	ND	15		µg/L	5	3/30/2019 4:32:45 AM	W58773
2-Chlorotoluene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
4-Chlorotoluene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
cis-1,2-DCE	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	3/30/2019 4:32:45 AM	W58773
Dibromochloromethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Dibromomethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,2-Dichlorobenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,3-Dichlorobenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,4-Dichlorobenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Dichlorodifluoromethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,1-Dichloroethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,1-Dichloroethene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,2-Dichloropropane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-5

**Project:** Fairview Station

**Collection Date:** 3/26/2019 8:11:00 AM

**Lab ID:** 1903C49-001

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: DJF
1,3-Dichloropropane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
2,2-Dichloropropane	ND	10		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,1-Dichloropropene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Hexachlorobutadiene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
2-Hexanone	ND	50		µg/L	5	3/30/2019 4:32:45 AM	W58773
Isopropylbenzene	22	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
4-Isopropyltoluene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
4-Methyl-2-pentanone	ND	50		µg/L	5	3/30/2019 4:32:45 AM	W58773
Methylene Chloride	ND	15		µg/L	5	3/30/2019 4:32:45 AM	W58773
n-Butylbenzene	ND	15		µg/L	5	3/30/2019 4:32:45 AM	W58773
n-Propylbenzene	52	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
sec-Butylbenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Styrene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
tert-Butylbenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	3/30/2019 4:32:45 AM	W58773
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
trans-1,2-DCE	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,1,1-Trichloroethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,1,2-Trichloroethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Trichloroethene (TCE)	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Trichlorofluoromethane	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
1,2,3-Trichloropropane	ND	10		µg/L	5	3/30/2019 4:32:45 AM	W58773
Vinyl chloride	ND	5.0		µg/L	5	3/30/2019 4:32:45 AM	W58773
Xylenes, Total	700	7.5		µg/L	5	3/30/2019 4:32:45 AM	W58773
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	5	3/30/2019 4:32:45 AM	W58773
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	5	3/30/2019 4:32:45 AM	W58773
Surr: Dibromofluoromethane	110	70-130		%Rec	5	3/30/2019 4:32:45 AM	W58773
Surr: Toluene-d8	99.1	70-130		%Rec	5	3/30/2019 4:32:45 AM	W58773

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-13

**Project:** Fairview Station

**Collection Date:** 3/26/2019 8:45:00 AM

**Lab ID:** 1903C49-002

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: <b>JME</b>
1,2-Dibromoethane	ND	0.0095		µg/L	1	4/1/2019 11:29:29 AM	43995
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>DJF</b>
Benzene	220	20		µg/L	20	4/2/2019 4:52:28 PM	W58835
Toluene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Ethylbenzene	21	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2,4-Trimethylbenzene	2.9	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Naphthalene	ND	4.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1-Methylnaphthalene	ND	8.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
2-Methylnaphthalene	ND	8.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Acetone	ND	20		µg/L	2	4/2/2019 5:22:21 PM	W58835
Bromobenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Bromodichloromethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Bromoform	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Bromomethane	ND	6.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
2-Butanone	ND	20		µg/L	2	4/2/2019 5:22:21 PM	W58835
Carbon disulfide	ND	20		µg/L	2	4/2/2019 5:22:21 PM	W58835
Carbon Tetrachloride	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Chlorobenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Chloroethane	ND	4.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Chloroform	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Chloromethane	ND	6.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
2-Chlorotoluene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
4-Chlorotoluene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
cis-1,2-DCE	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Dibromochloromethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Dibromomethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2-Dichlorobenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,3-Dichlorobenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,4-Dichlorobenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Dichlorodifluoromethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,1-Dichloroethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,1-Dichloroethene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2-Dichloropropane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-13

**Project:** Fairview Station

**Collection Date:** 3/26/2019 8:45:00 AM

**Lab ID:** 1903C49-002

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: DJF
1,3-Dichloropropane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
2,2-Dichloropropane	ND	4.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,1-Dichloropropene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Hexachlorobutadiene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
2-Hexanone	ND	20		µg/L	2	4/2/2019 5:22:21 PM	W58835
Isopropylbenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
4-Isopropyltoluene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
4-Methyl-2-pentanone	ND	20		µg/L	2	4/2/2019 5:22:21 PM	W58835
Methylene Chloride	ND	6.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
n-Butylbenzene	ND	6.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
n-Propylbenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
sec-Butylbenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Styrene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
tert-Butylbenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
trans-1,2-DCE	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,1,1-Trichloroethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,1,2-Trichloroethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Trichloroethene (TCE)	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Trichlorofluoromethane	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
1,2,3-Trichloropropane	ND	4.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Vinyl chloride	ND	2.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Xylenes, Total	ND	3.0		µg/L	2	4/2/2019 5:22:21 PM	W58835
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	2	4/2/2019 5:22:21 PM	W58835
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	2	4/2/2019 5:22:21 PM	W58835
Surr: Dibromofluoromethane	111	70-130		%Rec	2	4/2/2019 5:22:21 PM	W58835
Surr: Toluene-d8	98.2	70-130		%Rec	2	4/2/2019 5:22:21 PM	W58835

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-16

**Project:** Fairview Station

**Collection Date:** 3/26/2019 9:15:00 AM

**Lab ID:** 1903C49-003

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: <b>JME</b>
1,2-Dibromoethane	ND	0.0095		µg/L	1	4/1/2019 11:44:19 AM	43995
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>DJF</b>
Benzene	440	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Toluene	290	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Ethylbenzene	390	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Methyl tert-butyl ether (MTBE)	15	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2,4-Trimethylbenzene	280	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,3,5-Trimethylbenzene	47	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Naphthalene	72	20		µg/L	10	3/30/2019 5:31:17 AM	W58773
1-Methylnaphthalene	ND	40		µg/L	10	3/30/2019 5:31:17 AM	W58773
2-Methylnaphthalene	ND	40		µg/L	10	3/30/2019 5:31:17 AM	W58773
Acetone	ND	100		µg/L	10	3/30/2019 5:31:17 AM	W58773
Bromobenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Bromodichloromethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Bromoform	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Bromomethane	ND	30		µg/L	10	3/30/2019 5:31:17 AM	W58773
2-Butanone	ND	100		µg/L	10	3/30/2019 5:31:17 AM	W58773
Carbon disulfide	ND	100		µg/L	10	3/30/2019 5:31:17 AM	W58773
Carbon Tetrachloride	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Chlorobenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Chloroethane	ND	20		µg/L	10	3/30/2019 5:31:17 AM	W58773
Chloroform	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Chloromethane	ND	30		µg/L	10	3/30/2019 5:31:17 AM	W58773
2-Chlorotoluene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
4-Chlorotoluene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
cis-1,2-DCE	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/30/2019 5:31:17 AM	W58773
Dibromochloromethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Dibromomethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2-Dichlorobenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,3-Dichlorobenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,4-Dichlorobenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Dichlorodifluoromethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,1-Dichloroethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,1-Dichloroethene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2-Dichloropropane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-16

**Project:** Fairview Station

**Collection Date:** 3/26/2019 9:15:00 AM

**Lab ID:** 1903C49-003

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: DJF
1,3-Dichloropropane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
2,2-Dichloropropane	ND	20		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,1-Dichloropropene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Hexachlorobutadiene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
2-Hexanone	ND	100		µg/L	10	3/30/2019 5:31:17 AM	W58773
Isopropylbenzene	24	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
4-Isopropyltoluene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
4-Methyl-2-pentanone	ND	100		µg/L	10	3/30/2019 5:31:17 AM	W58773
Methylene Chloride	ND	30		µg/L	10	3/30/2019 5:31:17 AM	W58773
n-Butylbenzene	ND	30		µg/L	10	3/30/2019 5:31:17 AM	W58773
n-Propylbenzene	63	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
sec-Butylbenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Styrene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
tert-Butylbenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/30/2019 5:31:17 AM	W58773
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
trans-1,2-DCE	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,1,1-Trichloroethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,1,2-Trichloroethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Trichloroethene (TCE)	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Trichlorofluoromethane	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
1,2,3-Trichloropropane	ND	20		µg/L	10	3/30/2019 5:31:17 AM	W58773
Vinyl chloride	ND	10		µg/L	10	3/30/2019 5:31:17 AM	W58773
Xylenes, Total	510	15		µg/L	10	3/30/2019 5:31:17 AM	W58773
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	10	3/30/2019 5:31:17 AM	W58773
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	10	3/30/2019 5:31:17 AM	W58773
Surr: Dibromofluoromethane	111	70-130		%Rec	10	3/30/2019 5:31:17 AM	W58773
Surr: Toluene-d8	104	70-130		%Rec	10	3/30/2019 5:31:17 AM	W58773

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-10

**Project:** Fairview Station

**Collection Date:** 3/26/2019 9:40:00 AM

**Lab ID:** 1903C49-004

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: <b>JME</b>
1,2-Dibromoethane	ND	0.0093		µg/L	1	4/1/2019 11:59:11 AM	43995
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>DJF</b>
Benzene	6600	500		µg/L	500	4/2/2019 5:51:33 PM	W58835
Toluene	850	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Ethylbenzene	1200	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Methyl tert-butyl ether (MTBE)	76	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2,4-Trimethylbenzene	1300	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,3,5-Trimethylbenzene	310	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2-Dichloroethane (EDC)	51	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Naphthalene	390	100		µg/L	50	3/30/2019 6:00:33 AM	W58773
1-Methylnaphthalene	ND	200		µg/L	50	3/30/2019 6:00:33 AM	W58773
2-Methylnaphthalene	210	200		µg/L	50	3/30/2019 6:00:33 AM	W58773
Acetone	ND	500		µg/L	50	3/30/2019 6:00:33 AM	W58773
Bromobenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Bromodichloromethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Bromoform	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Bromomethane	ND	150		µg/L	50	3/30/2019 6:00:33 AM	W58773
2-Butanone	ND	500		µg/L	50	3/30/2019 6:00:33 AM	W58773
Carbon disulfide	ND	500		µg/L	50	3/30/2019 6:00:33 AM	W58773
Carbon Tetrachloride	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Chlorobenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Chloroethane	ND	100		µg/L	50	3/30/2019 6:00:33 AM	W58773
Chloroform	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Chloromethane	ND	150		µg/L	50	3/30/2019 6:00:33 AM	W58773
2-Chlorotoluene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
4-Chlorotoluene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
cis-1,2-DCE	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
cis-1,3-Dichloropropene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	3/30/2019 6:00:33 AM	W58773
Dibromochloromethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Dibromomethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2-Dichlorobenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,3-Dichlorobenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,4-Dichlorobenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Dichlorodifluoromethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,1-Dichloroethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,1-Dichloroethene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2-Dichloropropane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-10

**Project:** Fairview Station

**Collection Date:** 3/26/2019 9:40:00 AM

**Lab ID:** 1903C49-004

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: DJF
1,3-Dichloropropane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
2,2-Dichloropropane	ND	100		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,1-Dichloropropene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Hexachlorobutadiene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
2-Hexanone	ND	500		µg/L	50	3/30/2019 6:00:33 AM	W58773
Isopropylbenzene	71	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
4-Isopropyltoluene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
4-Methyl-2-pentanone	ND	500		µg/L	50	3/30/2019 6:00:33 AM	W58773
Methylene Chloride	ND	150		µg/L	50	3/30/2019 6:00:33 AM	W58773
n-Butylbenzene	ND	150		µg/L	50	3/30/2019 6:00:33 AM	W58773
n-Propylbenzene	220	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
sec-Butylbenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Styrene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
tert-Butylbenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	3/30/2019 6:00:33 AM	W58773
Tetrachloroethene (PCE)	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
trans-1,2-DCE	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
trans-1,3-Dichloropropene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2,3-Trichlorobenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2,4-Trichlorobenzene	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,1,1-Trichloroethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,1,2-Trichloroethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Trichloroethene (TCE)	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Trichlorofluoromethane	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
1,2,3-Trichloropropane	ND	100		µg/L	50	3/30/2019 6:00:33 AM	W58773
Vinyl chloride	ND	50		µg/L	50	3/30/2019 6:00:33 AM	W58773
Xylenes, Total	2300	75		µg/L	50	3/30/2019 6:00:33 AM	W58773
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	50	3/30/2019 6:00:33 AM	W58773
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	50	3/30/2019 6:00:33 AM	W58773
Surr: Dibromofluoromethane	117	70-130		%Rec	50	3/30/2019 6:00:33 AM	W58773
Surr: Toluene-d8	98.3	70-130		%Rec	50	3/30/2019 6:00:33 AM	W58773

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-27

**Project:** Fairview Station

**Collection Date:** 3/26/2019 10:06:00 AM

**Lab ID:** 1903C49-005

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8011/504.1: EDB</b>							Analyst: <b>JME</b>
1,2-Dibromoethane	ND	0.0094		µg/L	1	4/1/2019 12:14:04 PM	43995
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>DJF</b>
Benzene	150	10		µg/L	10	4/2/2019 6:20:47 PM	W58835
Toluene	30	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Ethylbenzene	2.3	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2,4-Trimethylbenzene	100	10		µg/L	10	4/2/2019 6:20:47 PM	W58835
1,3,5-Trimethylbenzene	52	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Naphthalene	41	2.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1-Methylnaphthalene	37	4.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
2-Methylnaphthalene	54	4.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Acetone	ND	10		µg/L	1	3/30/2019 6:29:48 AM	W58773
Bromobenzene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Bromodichloromethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Bromoform	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Bromomethane	ND	3.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
2-Butanone	ND	10		µg/L	1	3/30/2019 6:29:48 AM	W58773
Carbon disulfide	ND	10		µg/L	1	3/30/2019 6:29:48 AM	W58773
Carbon Tetrachloride	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Chlorobenzene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Chloroethane	ND	2.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Chloroform	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Chloromethane	ND	3.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
2-Chlorotoluene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
4-Chlorotoluene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
cis-1,2-DCE	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Dibromochloromethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Dibromomethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,1-Dichloroethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,1-Dichloroethene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2-Dichloropropane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903C49

Date Reported: 4/3/2019

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** MW-27

**Project:** Fairview Station

**Collection Date:** 3/26/2019 10:06:00 AM

**Lab ID:** 1903C49-005

**Matrix:** AQUEOUS

**Received Date:** 3/26/2019 12:07:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: DJF
1,3-Dichloropropane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
2,2-Dichloropropane	ND	2.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,1-Dichloropropene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Hexachlorobutadiene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
2-Hexanone	ND	10		µg/L	1	3/30/2019 6:29:48 AM	W58773
Isopropylbenzene	15	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
4-Isopropyltoluene	4.8	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
4-Methyl-2-pentanone	ND	10		µg/L	1	3/30/2019 6:29:48 AM	W58773
Methylene Chloride	ND	3.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
n-Butylbenzene	13	3.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
n-Propylbenzene	26	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
sec-Butylbenzene	5.3	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Styrene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
tert-Butylbenzene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
trans-1,2-DCE	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Trichlorofluoromethane	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Vinyl chloride	ND	1.0		µg/L	1	3/30/2019 6:29:48 AM	W58773
Xylenes, Total	100	1.5		µg/L	1	3/30/2019 6:29:48 AM	W58773
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/30/2019 6:29:48 AM	W58773
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/30/2019 6:29:48 AM	W58773
Surr: Dibromofluoromethane	106	70-130		%Rec	1	3/30/2019 6:29:48 AM	W58773
Surr: Toluene-d8	104	70-130		%Rec	1	3/30/2019 6:29:48 AM	W58773

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903C49

03-Apr-19

**Client:** Souder, Miller & Associates

**Project:** Fairview Station

Sample ID: <b>MB-43995</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8011/504.1: EDB</b>								
Client ID: <b>PBW</b>	Batch ID: <b>43995</b>	RunNo: <b>58797</b>								
Prep Date: <b>4/1/2019</b>	Analysis Date: <b>4/1/2019</b>	SeqNo: <b>1975975</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: <b>LCS-43995</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8011/504.1: EDB</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>43995</b>	RunNo: <b>58797</b>								
Prep Date: <b>4/1/2019</b>	Analysis Date: <b>4/1/2019</b>	SeqNo: <b>1975977</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.092	0.010	0.1000	0	92.1	70	130			

**Qualifiers:**

H Holding times for preparation or analysis exceeded  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903C49

03-Apr-19

Client: Souder, Miller &amp; Associates

Project: Fairview Station

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>W58773</b>	RunNo: <b>58773</b>								
Prep Date:	Analysis Date: <b>3/29/2019</b>	SeqNo: <b>1974643</b> Units: <b>µg/L</b>								
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								
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								

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903C49

03-Apr-19

Client: Souder, Miller &amp; Associates

Project: Fairview Station

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>W58773</b>	RunNo: <b>58773</b>								
Prep Date:	Analysis Date: <b>3/29/2019</b>	SeqNo: <b>1974643</b> Units: <b>µg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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		106	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.4	70	130			
Surr: Dibromofluoromethane	11		10.00		113	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>W58773</b>	RunNo: <b>58773</b>								
Prep Date:	Analysis Date: <b>3/29/2019</b>	SeqNo: <b>1974647</b> Units: <b>µg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	19	1.0	20.00	0	94.5	70	130			
Chlorobenzene	19	1.0	20.00	0	96.7	70	130			

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903C49

03-Apr-19

Client: Souder, Miller &amp; Associates

Project: Fairview Station

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>W58773</b>	RunNo: <b>58773</b>								
Prep Date:	Analysis Date: <b>3/29/2019</b>	SeqNo: <b>1974647</b>			Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	101	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.5	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.7	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.3	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.7		10.00		97.4	70	130			

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>W58835</b>	RunNo: <b>58835</b>								
Prep Date:	Analysis Date: <b>4/2/2019</b>	SeqNo: <b>1977225</b>			Units: <b>µg/L</b>					
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								

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903C49

03-Apr-19

Client: Souder, Miller &amp; Associates

Project: Fairview Station

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>W58835</b>	RunNo: <b>58835</b>								
Prep Date:	Analysis Date: <b>4/2/2019</b>	SeqNo: <b>1977225</b>			Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903C49

03-Apr-19

**Client:** Souder, Miller & Associates

**Project:** Fairview Station

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>W58835</b>	RunNo: <b>58835</b>								
Prep Date:	Analysis Date: <b>4/2/2019</b>	SeqNo: <b>1977225</b>			Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.2		10.00		92.1	70	130			
Surr: Dibromofluoromethane	11		10.00		113	70	130			
Surr: Toluene-d8	9.5		10.00		95.1	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>W58835</b>	RunNo: <b>58835</b>								
Prep Date:	Analysis Date: <b>4/2/2019</b>	SeqNo: <b>1977226</b>			Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	19	1.0	20.00	0	92.5	70	130			
Chlorobenzene	18	1.0	20.00	0	92.4	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	96.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.0	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.4	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

**Qualifiers:**

H Holding times for preparation or analysis exceeded  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode

**Sample Log-In Check List**

Client Name: SMA-SF

Work Order Number: 1903C49

RcptNo: 1

Received By: Anne Thorne

3/26/2019 12:07:00 PM

*Anne Thorne*

Completed By: Anne Thorne

3/27/2019 7:56:01 AM

*Anne Thorne*

Reviewed By: ENM

3/27/19

*labeled by YG 3/27/19*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present

2. How was the sample delivered? Client

**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

Samples were collected the same day and chilled.

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. VOA vials have zero headspace? Yes  No  No VOA Vials

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: *YG 3/27/19*

**Special Handling (if applicable)**

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

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

CUSTODY SEALS INTACT ON VOA VIALS/at 3/27/19

17. **Cooler Information**

*one VOA broke while labeling YG 3/27/19*

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.2	Good	Not Present			

# Chain-of-Custody Record

Client: SMA

Mailing Address: SFO

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: Fairview Station

Project #: \_\_\_\_\_

Project Manager: Alan Eschenbacher

Sampler: EMM

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 9.2

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3/26/19	0811	H2O	MW-5	5 vials	various	1903C49 201
	0845		MW-13			202
	0915		MW-16			203
	0940		MW-10			204
	1006		MW-27			205

Date: 3/26/19 Time: 1207 Relinquished by: Emme Mayle

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished by: \_\_\_\_\_

Received by: Alan Eschenbacher Date: 03/24/19 Time: 1207

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



**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 / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)		
			X				X				
			X				X				
			X				X				
			X				X				

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.