

Review of Annual 2020 Groundwater Monitoring Summary

Report: **Content satisfactory**

1. Follow recommendations stated within Annual 2020 Groundwater Monitoring Summary Report.

**APPROVED**

# Annual 2020 Groundwater Monitoring Summary Report

Former Lee Gas Plant  
Lea County, New Mexico  
GW-002

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## 1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the first and second half 2020 at the Former Lee Gas Plant (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences, LLC (Tasman) performed these activities on behalf of DCP Midstream, LP (DCP). The field activities described herein were conducted with the purpose of monitoring groundwater flow and quality conditions and assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface. Current Site conditions were evaluated from field data and analytical laboratory results collected between June 26<sup>th</sup> and 30<sup>th</sup> and December 16<sup>th</sup> and 20<sup>th</sup> 2020. The data collected were used to develop the groundwater elevation maps and analytical results figure presented herein.

## 2. Site Location and Background

The Site is located in the southwest quarter of the southeast quarter of Section 30, Township 17 South, Range 35 East, approximately 0.45 miles southeast of the intersection of US Highway 238 and County Road 50. The approximate field coordinates are 32.800 degrees north and 103.495 degrees west. The area is sparsely populated and land use is primarily associated with livestock grazing and oil and gas production and gathering.

Based on review of historical reports from previous Site investigations, the Site was historically used as a gas processing and compression plant. In 1988, Phillips 66 Natural Gas Company was ordered to install four monitoring wells (MW-1 through MW-4) in accordance with the Resource Conservation and Recovery Act (RCRA). An initial groundwater sampling event took place May 13, 1988 and identified impacts in the location of two former evaporation ponds north and east of the main plant. LNAPL was identified immediately above the water table at an approximate depth of 106 feet below ground surface (bgs). Several additional subsurface investigations were performed to determine the extent of both the free and dissolved phase hydrocarbon plumes, resulting in the installation of monitoring and recovery wells as described below:

- MW-5 through MW-8 and RW-1: Installed May 1990 – LNAPL recovery initiated at RW-1.
- MW-9 through MW-12: Installed October 1990.
- MW-13 and MW-14: Installed March 1991 – MW-7, MW-8, and MW-10 were converted into recovery wells.
- MW-15 through MW-20: Installed February 1992.

Subsequent to installation of the final six wells, quarterly groundwater sampling commenced. In addition, a soil vapor extraction (SVE) and air sparge (AS) system operated between 1993 and 2004. Currently, Site groundwater monitoring wells are sampled on a semi-annual basis.

Due to continued LNAPL detections at MW-15, a Magnum Spill Buster automatic LNAPL recovery system was installed on September 14, 2013 to address LNAPL at this location. Current Site remediation activities are further detailed in Section 4.0.



### 3. Groundwater Monitoring

This section describes the groundwater field and laboratory activities performed during the first and second half 2020 monitoring events from June 26<sup>th</sup> to 30<sup>th</sup> and December 16<sup>th</sup> to 20<sup>th</sup>2020. Monitoring activities included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring well network utilized to perform these activities at the Site.

#### 3.1 Groundwater Monitoring and LNAPL Thickness

Depth to groundwater, later converted to elevation, and LNAPL thickness was measured in order to evaluate hydraulic characteristics and provide information regarding seasonal and annual fluctuations in groundwater elevations at the Site. During the first and second half 2020, groundwater levels were measured at 22 monitoring well locations. LNAPL was detected in the following monitoring wells during the 2020 monitoring events, with the measured thickness indicated in parenthesis:

- First Half 2020
  - MW-5 (0.39 feet)
  - MW-6 (2.16 feet)
- Second Half 2020
  - MW-5 (0.45 feet)
  - MW-6 (1.70 feet)
  - MW-8 (0.45 feet)

Groundwater and LNAPL levels were measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data was later converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels, calculated groundwater elevations, and LNAPL level data are presented in Table 1.

A first and second half 2020 groundwater elevation maps, included as Figure 3 and 4 respectively, indicates that groundwater flow at the Site trends to the southwest. Groundwater elevations ranges, average elevation changes from previous monitoring events, and calculated hydraulic gradients (using elevations from MW-3 and MW-20) at the Site are summarized in the table below.

**Summary of Measured Hydraulic Parameters**

	<b>First Half 2020 (6/30/2020)</b>	<b>Second Half 2020 (12/16/2020)</b>
Maximum Elevation (Well ID)	3,872.55 (MW-3)	3,872.51 (MW-3)
Minimum Elevation (Well ID)	3,866.96 (MW-20)	3,866.60 (MW-20)
Average Change from Previous Monitoring Event (ft) – All Wells	-0.54	-0.60
Hydraulic Gradient (ft/ft) / (Well IDs)	0.0049 (MW-3 to MW-20)	0.0050 (MW-3 to MW-20)



### 3.2 Groundwater Quality

Subsequent to recording groundwater level measurements, groundwater samples were collected from 14 monitoring wells at the Site. A minimum of three well casing volumes of groundwater was purged from each monitoring well prior to collection of groundwater samples. Following well purging activities utilizing a mechanical pump, groundwater samples were collected using disposable polyethylene bailers, placed in clean laboratory-supplied containers for the selected analytical methods, packed in an ice-filled cooler, and maintained at approximately four (4) degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were shipped under chain-of-custody procedures to Pace Analytical labs (Pace) in Mt. Juliet, Tennessee for analysis. Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B.

Monitoring wells with measured LNAPL (MW-5, MW-6, and MW-8) and MW-15 with an active Spill Buster LNAPL recovery system were not sampled. Wells MW-1, MW-2, MW-3, MW-4 and MW-23 have been removed from the groundwater monitoring program due to a lack of groundwater at these locations.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period. Analytical results from the June and December 2020 monitoring event are displayed on Figure 5. Historical analytical results up to and including the December 2020 event are included in Appendix A. The laboratory analytical report for the first and second half 2020 event are included in Appendix B.

Benzene was detected at concentrations in excess of the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 0.005 milligrams per liter (mg/L) at the following monitoring well locations, and the concentrations listed:

- First Half 2020
  - MW-7: 0.0347 mg/L
  - MW-9: 2.24 mg/L
  - MW-10: 26.4 mg/L; (26.8 mg/L Duplicate)
  - MW-12: 0.781 mg/L
  - MW-21: 17.0 mg/L; (0.791 mg/L Duplicate)
- Second Half 2020
  - MW-10 21.7 mg/L; (24.5 mg/L Duplicate)
  - MW-12: 2.79 mg/L
  - MW-13: 0.0107 mg/L
  - MW-21: 15.9 mg/L; (14.1 mg/L Duplicate)

Ethylbenzene was detected at concentrations in excess of the NMWQCC groundwater standard of 0.70 mg/L at the following two locations, and the concentrations listed:

- First Half 2020
  - MW-10: 1.06 mg/L; (1.19 mg/L Duplicate)
  - MW-21: 1.80 mg/L; (1.84 mg/L Duplicate)



- Second Half 2020
  - MW-10: 0.852 mg/L; (0.477 mg/L Duplicate)
  - MW-21: 2.29 mg/L; (2.17 mg/L Duplicate)

All other samples collected had BTEX concentrations below applicable NMWQCC groundwater standards and/or laboratory detection limits.

### 3.3 Data Quality Assurance / Quality Control

Data quality assurance / quality control (QA/QC) procedures included the collection and analysis of QA/QC samples, as well as a review of laboratory analytical data for QA/QC compliance. Specifically, the following QA/QC procedures were conducted: a trip blank was collected and submitted for analysis; field duplicate samples from wells MW-10 and MW-21 were collected and submitted for analysis; and laboratory data were reviewed for compliance with the analytical method(s) and the associated QA/QC procedures.

An evaluation of the QA/QC procedures conducted during the first and second half 2020 groundwater monitoring events indicated the following:

- Target analytes were not detected in the trip blank;
- During the First Half 2020 groundwater monitoring event, MW-10 and the associated duplicate sample exhibited benzene concentrations of 26.4 mg/L and 26.8 mg/L, respectively. The calculated relative percent difference (RPD) for benzene between the samples was 1.5%, which is within the target control range of 20%. The duplicate associated with MW-21 exhibited benzene concentrations of 17 mg/L and 0.791 mg/L, respectively, which exceeded the target control range of 20% likely due to interference and non-homogeneity of the sample matrix.
- During the Second Half 2020 groundwater monitoring event, MW-10 and the associated duplicate sample exhibited benzene concentrations of 21.7 mg/L and 24.5 mg/L, respectively. The calculated relative percent difference (RPD) for benzene between the samples was 12%, which is within the target control range of 20%. The duplicate associated with MW-21 exhibited benzene concentrations of 15.9 mg/L and 14.1 mg/L, respectively, with a 12% RPD within the target control range of 20%.
- Submitted samples were analyzed using the correct analytical methods and within the correct holding times;
- Chain of custody forms were in order and properly executed.
- Data was reported using the correct method number and reporting units.

The overall QA/QC assessment of the first and second half 2020 data indicates that both field precision and overall data precision and accuracy are acceptable.

## 4. Remediation Activities

Measurable free phase hydrocarbons were detected during the reporting period in monitoring wells MW-5, MW-6 and MW-8 as summarized in Tables 1 and 2. LNAPL recovery at MW-15 was initiated on



September 14, 2013 (second half 2013) using a Magnum Spill Buster automatic LNAPL recovery system. Details regarding Spill Buster implementation were described in the Second Half 2013 Report.

Since LNAPL recovery was initiated at MW-15, the Spill Buster system has removed a cumulative total of approximately 483 gallons of LNAPL through December 2020. The extracted LNAPL material is disposed of at the Eunice, New Mexico disposal facility. A summary of LNAPL extraction is provided in the Table 3 LNAPL Recovery Tank Inspection Log. Based on the tank gauging data provided on Table 3, the Spill Buster did not remove any measurable free product between the September and December monitoring events. Additionally, the decrease in LNAPL volume observed within the tank between the two events is likely attributed to evaporation as no leaks or spills were identified.

## 5. Supplemental Remedial Technology

Remedial activities are anticipated to be initiated at the Site, beginning in the second half 2021. Supplemental remedial activities are anticipated to utilize the technologies described below, which have been evaluated through current and historic application at the Site and pilot testing activities performed in January 2020.

### 5.1 LNAPL Extraction

As described in Section 4, LNAPL extraction has been conducted at the Site using automatic recovery methods. The extracted volume by the Spill Buster at MW-15 indicates that the Spill Buster technology is appropriate for continued operation at the Site and that the geology is amenable to moderate LNAPL removal given the appropriate conditions.

LNAPL extraction will be continued and/or expanded during 2021 as follows:

- Passive LNAPL Recovery Bailers:
  - Deployment of a passive LNAPL recovery bailer at MW-05, MW-06, and MW-08 to allow continued collection of LNAPL in between field events. This remedial effort is contingent on a sufficient amount of water column within the well to accommodate the bailer's LNAPL collection reservoir and allow the influent filter/collection point of the bailer to sit at the LNAPL/water interface.
- Manual LNAPL Recovery: Field personnel will continue manual LNAPL extraction of LNAPL using dedicated recovery bailers as practical during field events conducted at the Site.
- Solar-Powered Spill Buster:
  - Continue operation of the Spill Buster at MW-15. Removal volumes will be monitored over time to observe changes in the thickness or yield of LNAPL at that location.

### 5.2 Soil Vapor Extraction (SVE) and Air Sparge (AS) Pilot Test

Application of SVE and AS remediation technology at the Site has been evaluated through previous SVE/AS system operation between 1993 and 2004 and supplemental pilot testing efforts that were conducted between January 27 and 29, 2020. SVE/AS pilot testing activities were conducted in accordance with the January 8, 2020 Interim *Air Sparge / Soil Vapor Extraction Pilot Test Workplan* (AS/SVE Pilot Workplan) included as Appendix C.



### Pilot Test Implementation and Results

Soil Vapor Extraction (SVE) and Air Sparge (AS) pilot testing activities were performed at the Site and included SVE at MW-10 and RW-01, AS at AS-2, and a combined SVE/AS test at MW-10/AS-2 and RW-1/AS-01. As discussed in the AS/SVE Pilot Test Workplan and the approved Second half 2019 Summary Report, Tasman installed two AS pilot test wells (AS-1 and AS-2) in October 2019 located approximately 80 feet and 145 feet south of MW-08, respectively (Figure 2). The wells (AS-1 and AS-2) were screened from 117-119 feet and 128-130 feet bgs, respectively, using 0.010-inch slot screened 2-inch diameter PVC casing.

#### SVE Only Pilot Test Results:

On January 27 and 28, 2020, SVE pilot test activities were performed at monitoring well MW-10 and former remediation well RW-01 utilizing a vacuum truck capable of producing a vacuum pressure to 21.5 inches of mercury (in Hg) and a flowrate of 28 cubic feet per minute (cfm).

On January 27<sup>th</sup>, pilot testing activities utilizing SVE only performed separately at monitoring well MW-10 and remediation well RW-01 produced applied vacuum rates of 63.6 cubic feet per minute (cfm) at 9 inches of Mercury (in-Hg) at MW-10 and 52 cfm and 9 in-Hg at RW-01. Radius of influence (ROI) vacuum rates were observed at neighboring monitoring wells up to 25 feet from each pilot test well during the SVE only tests. Following the pilot testing at each well, vapor samples were collected from the SVE system effluent stack and submitted to Origins Laboratory in Denver, Colorado for laboratory analysis of total volatile petroleum hydrocarbons (TVPH) using USEPA Method TO-15. The vapor samples were collected to estimate and evaluate representative total volatile organic compounds (VOC) removal quantities during the pilot test treatment period. The January 2020 analytical results for vapor sample RW-01 and MW-10 with laboratory ID # Y001462-01 and Y001462-02 were collected after the induced vacuum was applied and optimized at each location. The exhibited values for the RW-01 samples were, benzene (20.9 micrograms per cubic meter [ $\mu\text{g}/\text{m}^3$ ]), toluene (53.9  $\mu\text{g}/\text{m}^3$ ), ethylbenzene (13.9  $\mu\text{g}/\text{m}^3$ ), total xylenes (381.9  $\mu\text{g}/\text{m}^3$ ), and total petroleum hydrocarbons gasoline range organics (TPH-GRO, 6,730  $\mu\text{g}/\text{m}^3$ ). The exhibited values for the MW-10 samples were, benzene (15  $\mu\text{g}/\text{m}^3$ ), toluene (29.8  $\mu\text{g}/\text{m}^3$ ), ethylbenzene (11.6  $\mu\text{g}/\text{m}^3$ ), total xylenes (227.5  $\mu\text{g}/\text{m}^3$ ), and TPH-GRO (3,960  $\mu\text{g}/\text{m}^3$ ). The laboratory analytical data and estimated VOC emissions are summarized on Table 4 and the laboratory analytical report is included in Appendix B.

#### AS/SVE Pilot Test Results:

On January 28, 2020, an AS only pilot test was completed at AS-02 for approximately 3 hours and operated at an average flow rate of 6.5 cfm and an average applied pressure of 14 pounds per square inch (psi). The breakthrough pressure of sparge air into the subsurface formation was observed to be approximately 13.5 psi at four (4) cfm. Following this test, SVE was operated at MW10 simultaneously with sparge air applied to AS-02 for approximately 3 hours. System flow rates and pressures were optimized during the testing period and a vapor sample was collected for laboratory analysis to determine if the application of sparge air to the subsurface formation readily volatilizes petroleum hydrocarbons. The VOC concentrations for the combined AS/SVE test (MW-10) are provided in laboratory analytical report ID #



Y001462-03 and were, benzene (<5.6  $\mu\text{g}/\text{m}^3$ ), toluene (<10  $\mu\text{g}/\text{m}^3$ ), ethylbenzene (<10  $\mu\text{g}/\text{m}^3$ ), total xylenes (186  $\mu\text{g}/\text{m}^3$ ), and TPH-GRO (3,210  $\mu\text{g}/\text{m}^3$ ).

On January 29, 2020, AS/SVE pilot testing was completed at AS-01 and RW-01 for approximately 3 hours. System flow rates and pressures were optimized during the testing period and a vapor sample was collected. The exhibited values for the combined test (RW-01) with laboratory ID # Y001462-04 were, benzene (11.9  $\mu\text{g}/\text{m}^3$ ), toluene (12.4  $\mu\text{g}/\text{m}^3$ ), ethylbenzene (<10  $\mu\text{g}/\text{m}^3$ ), total xylenes (69.3  $\mu\text{g}/\text{m}^3$ ), and TPH-GRO (1,530  $\mu\text{g}/\text{m}^3$ ).

During the pilot testing period, breakthrough pressure was achieved at approximately 7.5 psi during the AS-01 test and at approximately 13.5 during the AS-02 test. The ROI from applied sparge air was between 50-100 feet laterally from the test well and depending on flow rates and applied pressure. As described further in the next section, this technology will be included for potential future application at the Site and may be considered for implementation while LNAPL is present in the treatment zone for further degradation of LNAPL material.

#### *AS/SVE Pilot Test Conclusion:*

The Lee site was determined to be an ideal environment for AS/SVE remedial technology and based on the pilot test results, SVE was able to achieve a ROI of up to approximately 25 feet from the test well. However, based on the distance between and limited field monitoring locations during the pilot study, it is anticipated that the ROI will increase once a permanent system and additional SVE and monitoring wells are installed. In addition to the suitable environment for vapor recovery, Site impacts include light end petroleum hydrocarbons that are readily volatilized using AS/SVE technology and as displayed by the significant decrease in the TVPH concentrations that were reported between the SVE only and the combined AS/SVE tests (Table 4). During the limited pilot testing activities, approximately 0.07 pounds of VOCs were removed from the subsurface using AS/SVE remediation.

## **5.2 Remedial Technology Implementation**

This section provides the general phases and scope of activities that will be required, including well installation, equipment installation, and operation and monitoring (O&M). DCP plans to submit a final *Air Sparge / Soil Vapor Extraction Remediation Workplan* (Workplan) to NMED that will include a proposed remediation system design and layout, a monitoring and observation well network, and a performance monitoring and analysis plan. The workplan is anticipated to be completed before the end of the first half 2021 and will be presented to NMED for approval and comment prior to implementing construction of the AS/SVE system.

#### *Monitoring/Remediation Well Installation:*

Application of SVE and LNAPL extraction at the Site will include existing monitoring wells and installation of additional remediation well locations. Following system shutdown of the previous remediation system and the follow up pilot tests, the existing SVE Remediation Well (RW-1) and the two AS Remediation Wells that were installed in October 2019 will be incorporated into the final full-scale remediation design.



Due to the progressive reduction in the regional groundwater table, several monitoring wells are no longer in contact with groundwater and may therefore be utilized as SVE remediation points. Additional well points may be used for groundwater monitoring, SVE, and/or LNAPL recovery, depending on the conditions observed at each location following installation and well development. The locations of proposed wells will be selected based on the aerial extent of the LNAPL plume and distances necessary to achieve sufficient AS/SVE influence throughout the treatment area.

Following design of the full-scale remediation system, dedicated SVE wells will be installed with a well screen that spans the depth of soil impacts. The screened interval should be installed so it has greater than 50% located in the vadose zone with either 2 or 4-inch diameter well screens. The screened interval should be installed with a sand pack filling the well annulus that is a minimum of 2" thick. A bentonite grout plug should be installed 1 foot above the top of the screened interval. Installation of additional monitoring / SVE well points is anticipated to include advancing each boring to an approximate total depth of 135 feet below ground surface (bgs) and construction with either 2-inch or 4-inch schedule 40 polyvinyl chloride (PVC), respectively. The screened interval and total depth of each well location may be adjusted slightly based on variations in the surface elevation and/or groundwater elevation.

The data from the Pilot Test are being used to develop a Basis of Design (BOD) for a full-scale remediation system in the Workplan. The BOD and Workplan will finalize the locations for the additional AS and SVE remediation wells and will also recommend equipment specifications.

As detailed previously, LNAPL extraction is currently being conducted at MW-05, MW-06, MW-08 and MW-15 through the use of a combination of automatic and passive LNAPL recovery remediation methods.

## 6. Conclusions

Comparison of the first and second half 2020 monitoring data with historical information provides the following general observations:

- Based on historical groundwater elevations, the potentiometric surface has remained relatively stable, however most Site wells have exhibited a minor, but consistent decreasing trend in groundwater elevation since 2015. The observed trend has resulted in a combined average decrease of 1 to 2-foot in elevation since 2015.
- BTEX concentrations throughout the Site continue to fluctuate when compared to historical data.
- At MW-12 benzene concentrations have generally increased at this location since 2012 and remain above the NMWQCC standard.
- LNAPL persists at monitoring well locations MW-5, MW-6, MW-8, and MW-15. At MW-15, LNAPL is being addressed with re-installation of the Spill Buster LNAPL extraction system.
- LNAPL in MW-6 has exhibited a continuous increase in product thickness every semi-annual sampling event since June 2013 with the exception of the Second Half 2020 event in which LNAPL thickness decreased 0.46-feet.



## 5. Recommendations

Based on evaluation of first and second half 2020 and historical Site observations and monitoring results, the following recommendations have been developed for future activities:

- Continue semi-annual groundwater sampling to monitor dissolved and free phase petroleum hydrocarbons and assess the effectiveness of the current remedial strategy for the Site. Samples will be collected from locations illustrated on Figure 2 and which have historically been included in the sampling plan.
- Continue operation and maintenance of the Spill Buster LNAPL recovery system at MW-15 to address free phase petroleum thicknesses in the northern area of the Site.
- Consider installing an additional spill buster or LNAPL recovery system at MW-6 to address the increasing free phase petroleum thicknesses in the northern area adjacent to MW-15 (and MW-8)
- Due to the continued trend of BTEX concentrations above standards at monitoring well MW-12 and fluctuations above standards in MW-13, additional groundwater remediation activities at the Site are warranted. An SVE/AS pilot test was completed in early 2020 to determine the efficacy of such remediation technologies and based on the results and evaluation of the data DCP plans to prepare a full-scale remediation design and SVE/AS workplan that will be presented to NMED for approval during the first half 2021. Implementation and installation of the system is anticipated to be completed in second half 2021 with continuous operation in 2022.

Tables

**TABLE 1**  
**FIRST and SECOND HALF 2020 SEMI-ANNUAL**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-1	06/30/20	DRY			100.90	3979.21 <sup>(2)</sup>	NA	NA
MW-1	12/16/20	DRY			100.90	3979.21 <sup>(2)</sup>	NA	NA
MW-2	06/30/20	DRY			106.76	3980.49 <sup>(2)</sup>	NA	NA
MW-2	12/16/20	DRY			106.76	3980.49 <sup>(2)</sup>	NA	NA
MW-3	06/30/20	107.72			NM	3980.27	3872.55	NA
MW-3	12/16/20	107.76			NM	3980.27	3872.51	-0.04
MW-4	06/30/20	DRY			103.55	NM	NA	NA
MW-4	12/16/20	DRY			103.55	NM	NA	NA
MW-5	06/30/20	109.80	109.41	0.39	NM	3979.82	3870.31	-0.38
MW-5	12/16/20	110.45	110.00	0.45	NM	3979.82	3869.71	-0.60
MW-6	06/30/20	112.45	110.29	2.16	NM	3981.79	3870.96	-0.38
MW-6	12/16/20	112.45	110.75	1.70	NM	3981.79	3870.62	-0.34
MW-7	06/30/20	109.59			112.32	3978.45	3868.86	-0.44
MW-7	12/16/20	110.10			112.32	3978.45	3868.35	-0.51
MW-8	06/30/20	DRY			NM	NM	NA	NA
MW-8	12/16/20	110.95	110.50	0.45	NM	3979.96	3869.35	NA
MW-9	06/30/20	111.28			117.01	3980.17	3868.89	-0.51
MW-9	12/16/20	DRY			117.01	3980.17	NA	NA
MW-10	06/30/20	110.97			117.39	3979.66	3868.69	-0.51
MW-10	12/16/20	111.40			117.39	3979.66	3868.26	-0.43
MW-11	06/26/20	110.12			118.17	3978.50	3868.38	-0.50
MW-11	12/16/20	110.50			118.17	3978.50	3868.00	-0.38
MW-12	06/30/20	110.59			117.57	3978.82	3868.23	-0.54
MW-12	12/16/20	110.95			117.57	3978.82	3867.87	-0.36
MW-13	06/30/20	112.75			122.12	3980.52	3867.77	-0.87
MW-13	12/16/20	112.75			122.12	3980.52	3867.77	0.00
MW-14	06/29/20	113.57			118.64	3982.23	3868.66	-0.31
MW-14	12/16/20	117.66			118.64	3982.23	3864.57	-4.09
**MW-15	06/30/20	NM	NM	NM	NM	3982.70	NA	NA
**MW-15	12/15/20	111.85	111.65	0.20	NM	3982.70	3871.00	NA
MW-16	06/29/20	109.78			128.31	3980.80	3871.02	-0.48
MW-16	12/16/20	110.02			128.31	3980.80	3870.78	-0.24
MW-17	06/29/20	112.22			128.19	3981.80	3869.58	-0.53
MW-17	12/16/20	112.70			128.19	3981.80	3869.10	-0.48
MW-18	06/29/20	113.68			125.57	3983.10	3869.42	-0.67
MW-18	12/16/20	114.20			125.57	3983.10	3868.90	-0.52
MW-19	06/29/20	113.52			126.66	3980.80	3867.28	-0.60
MW-19	12/16/20	113.95			126.66	3980.80	3866.85	-0.43
MW-20	06/29/20	116.34			135.77	3983.30	3866.96	-0.72
MW-20	12/16/20	116.70			135.77	3983.30	3866.60	-0.36

**TABLE 1  
FIRST and SECOND HALF 2020 SEMI-ANNUAL  
SUMMARY OF GROUNDWATER ELEVATION DATA  
FORMER LEE GAS PLANT  
LEA COUNTY, NEW MEXICO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-21	06/30/20	111.83			123.59	3981.50 <sup>(2)</sup>	3869.67	-0.51
MW-21	12/16/20	112.20			123.59	3981.50 <sup>(2)</sup>	3869.30	-0.37
MW-22	06/26/20	111.95			148.22	3981.15 <sup>(2)</sup>	3869.20	-0.50
MW-22	12/16/20	112.35			148.22	3981.15 <sup>(2)</sup>	3868.80	-0.40
MW-23	06/30/20	DRY			101.11	3980.54 <sup>(2)</sup>	NA	NA
MW-23	12/16/20	DRY			101.11	3980.54 <sup>(2)</sup>	NA	NA
Average change in groundwater elevation (12/18/19 to 6/30/20)								-0.54
Average change in groundwater elevation (6/30/20 to 12/16/20)								-0.60

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

2- TOC elevations for MW-1, MW-2, MW-21, MW-22, and MW-23 were calculated relative to the historical MW-7 TOC elevation based on a transit survey conducted on 6/4/14.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

\* Groundwater elevation was corrected for product thickness using the following calculation, when applicable:

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well \* LNAPL Relative Density)

LNAPL relative density is assumed to be approximately 0.75

\*\* Monitoring well MW-15 has an active Spill Buster automatic LNAPL recovery pump installed. As such, the calculated groundwater elevations may not be representative of actual groundwater elevations within the well.

NM = Not Measured

NA = Not Applicable

**TABLE 2**  
**FIRST and SECOND HALF 2020 SEMI-ANNUAL**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-5	06/30/20	LNAPL				
MW-5	12/16/20	LNAPL				
MW-6	06/30/20	LNAPL				
MW-6	12/16/20	LNAPL				
MW-7	06/30/20	0.0347	<0.00100	0.000167 J	<0.00300	
MW-7	12/17/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-8	06/30/20	Dry				
MW-8	12/16/20	LNAPL				
MW-9	06/30/20	2.24	<0.00100	0.0303	0.00196 J	
MW-9	12/16/20	Dry				
MW-10	06/30/20	26.4	<0.0100	1.06	0.00506 J	Duplicate B sample collected
MW-10 (Duplicate)	06/30/20	26.8	<0.0100	1.19	0.00513 J	
MW-10	12/17/20	21.7	<1.0	0.852	0.0282 J	Duplicate A sample collected
MW-10 (Duplicate)	12/17/20	24.5	<0.0250	0.477	<0.0750	
MW-11	06/26/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-11	12/16/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-12	06/30/20	0.781	0.000825 J	0.0519	0.00220 J	
MW-12	12/18/20	2.79	<0.0100	<0.0100	<0.00300	
MW-13	06/30/20	0.000122 J	<0.00100	<0.00100	<0.00300	
MW-13	12/17/20	0.0107	<0.00100	0.000283 J	<0.00300	
MW-14	06/29/20	0.00111	<0.00100	<0.00100	<0.00300	
MW-14	12/16/20	0.0000983 J	<0.00100	<0.00100	<0.00300	
MW-15	06/30/20	LNAPL				Active Spill Buster in Well
MW-15	12/16/20	LNAPL				Active Spill Buster in Well
MW-16	06/29/20	<0.0010	<0.0010	<0.0010	<0.0030	
MW-16	12/18/20	0.00769	0.000450 J	0.000201 J	0.000340 J	
MW-17	06/29/20	0.000378 J	<0.0010	<0.0010	<0.0030	
MW-17	12/16/20	0.000103 J	<0.0010	<0.0010	<0.0030	
MW-18	06/29/20	0.000305 J	<0.0010	<0.0010	<0.0030	
MW-18	12/16/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-19	06/29/20	0.000244 J	<0.0010	<0.0010	<0.0030	
MW-19	12/17/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-20	06/29/20	0.000212 J	<0.0010	<0.0010	<0.0030	
MW-20	12/17/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-21	06/30/20	17.0	<0.0010	1.80	0.155	Duplicate A sample collected
MW-21 (Duplicate)	06/30/20	0.791	<0.0250	1.84	0.130	
MW-21	12/17/20	15.9	<0.100	2.29	0.194 J	Duplicate B sample collected
MW-21 (Duplicate)	12/17/20	14.1	<0.200	2.17	0.156 J	
MW-22	06/26/20	0.000246 J	<0.0010	<0.0010	<0.0030	
MW-22	12/17/20	<0.00100	<0.00100	<0.00100	0.000177 J	

**TABLE 2  
FIRST and SECOND HALF 2020 SEMI-ANNUAL  
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER  
FORMER LEE GAS PLANT  
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
Trip Blank	06/26/20	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	12/18/20	<0.00100	<0.00100	<0.00100	<0.00300	

Notes:  
**Bold red** values indicate an exceedance of the associated NMWQCC standard (Effective 7/1/2020) or, for chlorides, the secondary maximum contaminant which has been established as a guideline in the National Secondary Drinking Water Regulations.  
 NMWQCC = New Mexico Water Quality Control Commission  
 LNAPL = Light Non-Aqueous Phase Liquid  
 J = A qualifier indicating an estimated value of a concentration above the laboratory's Method Detection Limit (MDL) but below the Reported Detection Limit (RDL).  
 mg/L = milligrams per liter

**TABLE 3  
LNAPL RECOVERY TANK INSPECTION LOG  
FORMER LEE GAS PLANT  
LEA COUNTY, NEW MEXICO**

Date	Total Tank Depth (feet)	Product in Tank (feet)	Depth to Water (feet)	Volume of Product (gallons)	Volume of Water (gallons)	Cumulative Volume of Water & Product (Gallons)	Pump Rate (gallons per day)
<b>Lee Booster Station - MW-15 Well (Spill Buster Installed 9/14/13)</b>							
09/15/13	2.05	1.72	--	16.90	--	16.90	16.90
09/16/13	2.05	1.65	--	20.48	--	20.48	3.58
09/20/13	2.05	1.34	--	36.35	--	36.35	3.97
09/25/13	2.05	1.12	--	47.62	--	47.62	2.25
10/04/13	2.05	0.90	--	58.88	--	58.88	1.13
10/10/13	2.05	0.70	--	69.12	--	69.12	1.71
10/17/13	2.05	0.44	--	82.43	--	82.43	1.90
10/25/13	2.05	0.35	--	87.04	--	87.04	0.58
Tank emptied on 10/31/13							
11/13/13	2.05	1.84	--	10.75	--	97.79	0.83
11/22/13	2.05	1.50	--	28.16	--	115.20	1.93
12/04/13	2.05	1.22	--	42.50	--	129.54	1.19
12/18/13	2.05	1.00	--	53.76	--	140.80	0.94
01/06/14	2.05	0.63	--	72.70	--	159.74	0.92
01/23/14	2.05	0.34	--	87.55	--	174.59	0.87
01/27/14	2.05	0.32	--	88.58	--	175.62	0.26
Tank emptied on 1/27/14							
02/10/14	2.05	1.72	--	16.90	--	192.51	1.21
04/25/14	2.05	0.76	--	66.05	--	241.66	0.66
05/27/14	2.05	0.49	--	79.87	--	255.49	0.43
06/02/14	2.05	0.44	--	82.43	--	258.05	0.43
Tank emptied on 6/2/14							
06/24/14	2.05	1.95	--	5.12	--	263.17	0.23
08/15/14	2.05	1.50	--	28.16	--	286.21	0.44
09/25/14	2.05	1.30	--	38.40	--	296.45	0.25
10/16/14	2.05	1.10	--	48.64	--	306.69	0.49
12/18/14	2.05	0.79	--	64.51	--	322.56	0.25
03/12/15	2.05	0.44	--	82.43	--	340.48	0.21
Tank emptied on 3/12/15							
05/05/15	2.05	1.92	--	6.66	--	347.14	0.12
06/03/15	2.05	1.85	--	10.24	--	350.72	0.12
08/31/15	2.05	1.68	--	18.94	--	359.42	0.10
12/15/15	2.05	1.46	--	30.21	--	370.69	0.11
03/23/16	2.05	1.06	--	50.69	--	391.17	0.21
The 105 gallon poly holding tank was emptied and replaced with a 55-gallon steel drum holding tank on March 23, 2016							
03/23/16	2.85	0	--	0.00	--	391.17	NA
06/22/16	2.85	1.6	--	30.88	--	422.05	0.34
12/20/16	2.85	2.83	--	54.62	--	445.79	0.13
Tank emptied on 12/21/16.							
12/21/16	2.85	0	--	0.00	--	445.79	NA
06/21/17	2.85	1.2	--	23.16	--	468.95	0.13
12/19/17	LNAPL Recovery System Not Operational						
07/05/18	2.85	1.2	--	23.16		468.95	0.00
08/13/18	2.85	1.2	--	23.16		468.95	0.00
11/08/18	2.85	1.2	--	23.16		468.95	0.00
12/05/18	2.85	1.29	--	24.90		470.69	0.06
01/10/19	2.85	1.58	--	30.49		476.28	0.16
02/15/19	2.85	1.71	--	33.00		478.79	0.07
03/22/19	2.85	1.74	--	33.58		479.37	0.02
05/03/19	2.85	1.79	--	34.55		480.34	0.02
06/17/19	2.85	1.82	--	35.13		480.92	0.01
09/17/19	2.85	1.82	--	35.13		480.92	0.00
11/20/19	2.85	1.82	--	35.13		480.92	0.00
12/18/19	2.85	1.82	--	35.13		480.92	0.00
02/25/20	2.85	1.76	--	33.97		479.76	-0.02
09/15/20	2.85	1.93	--	37.25		483.04	0.02
12/15/20	2.85	1.88	--	36.28		482.07	-0.01

Notes:

- One foot within the 105-gallon poly holding tank equals 51.22 gallons/ One tenth of a foot equals 5.12 gallons.
- One foot within the 55-gallon steel drum holding tank equals 19.3 Gallons.

**Table 4**  
**SVE VOC Emissions Calculations**  
**Lee Booster Station**  
**Lea County, New Mexico**

SAMPLE ID	Q (cfm)	V (in.H2O.)	Run Time (hrs)	
Y001462-01	52.1	132.0	4	RW-01 SVE only (PID started at 121 & dropped to 2 throughout the 4 hr test)
Y001462-02	63.6	11.0	1.5	MW-10 SVE only (PID remained <5ppb)
Y001462-03	60.2	10.5	3	AS-2 & MW-10 Combined AS/SVE (PID < 1 ppb)
Y001462-04	21.6	-10.0	3	AS-1 & RW-01 Combined AS/SVE (PID < 1 ppb throughout test)

Sample Period	Q (cfm)	P (in.H2O.)	Run Time (hrs)	PID PPM	Chemical	C <sub>i</sub>	E	E	E	E <sub>total</sub>
					TO-15	ug/m3	(g/cf)	(g/min)	(lb/hr)	
01-27-20 (Start-up RW-01)	52.1	132.00	4	2	Benzene	20.9	5.92E-07	3.08E-05	4.08E-06	0.0000
					Toluene	53.9	1.53E-06	7.95E-05	1.05E-05	0.0000
					Ethylbenzene	13.9	3.94E-07	2.05E-05	2.71E-06	0.0000
					Xylene	381.9	1.08E-05	5.63E-04	7.45E-05	0.0003
					TPH-GRO (C6-C10)	6,730	1.91E-04	9.93E-03	1.31E-03	0.0053
					<b>Total Periodic VOC Emissions</b>					
01-27-20 (Start-up MW-10)	63.6	11	1.5	NA	Benzene	15.0	4.25E-07	2.70E-05	3.57E-06	0.0000
					Toluene	29.8	8.44E-07	5.37E-05	7.10E-06	0.0000
					Ethylbenzene	11.6	3.29E-07	2.09E-05	2.76E-06	0.0000
					Xylene	227.5	6.44E-06	4.10E-04	5.42E-05	0.0001
					TPH-GRO (C6-C10)	3,960	1.12E-04	7.13E-03	9.43E-04	0.0014
					<b>Total Periodic VOC Emissions</b>					
01-28-20 (Start-up AS-2 & MW-10)	60.2	10.5	3	144	Benzene	0.0	0.00E+00	0.00E+00	0.00E+00	0.0000
					Toluene	0.0	0.00E+00	0.00E+00	0.00E+00	0.0000
					Ethylbenzene	0.0	0.00E+00	0.00E+00	0.00E+00	0.0000
					Xylene	186.0	5.27E-06	3.17E-04	4.19E-05	0.0001
					TPH-GRO (C6-C10)	3,210	9.09E-05	5.47E-03	7.23E-04	0.0022
					<b>Total Periodic VOC Emissions</b>					
01-29-20 (Start-up AS-1 & RW-01)	21.6	-10.0	3	4	Benzene	11.9	3.37E-07	7.28E-06	9.62E-07	0.0000
					Toluene	12.4	3.51E-07	7.59E-06	1.00E-06	0.0000
					Ethylbenzene	0.0	0.00E+00	0.00E+00	0.00E+00	0.0000
					Xylene	69.3	1.96E-06	4.24E-05	5.60E-06	0.0000
					TPH-GRO (C6-C10)	1,530	4.33E-05	9.36E-04	1.24E-04	0.0004
					<b>Total Periodic VOC Emissions</b>					

**Notes:**

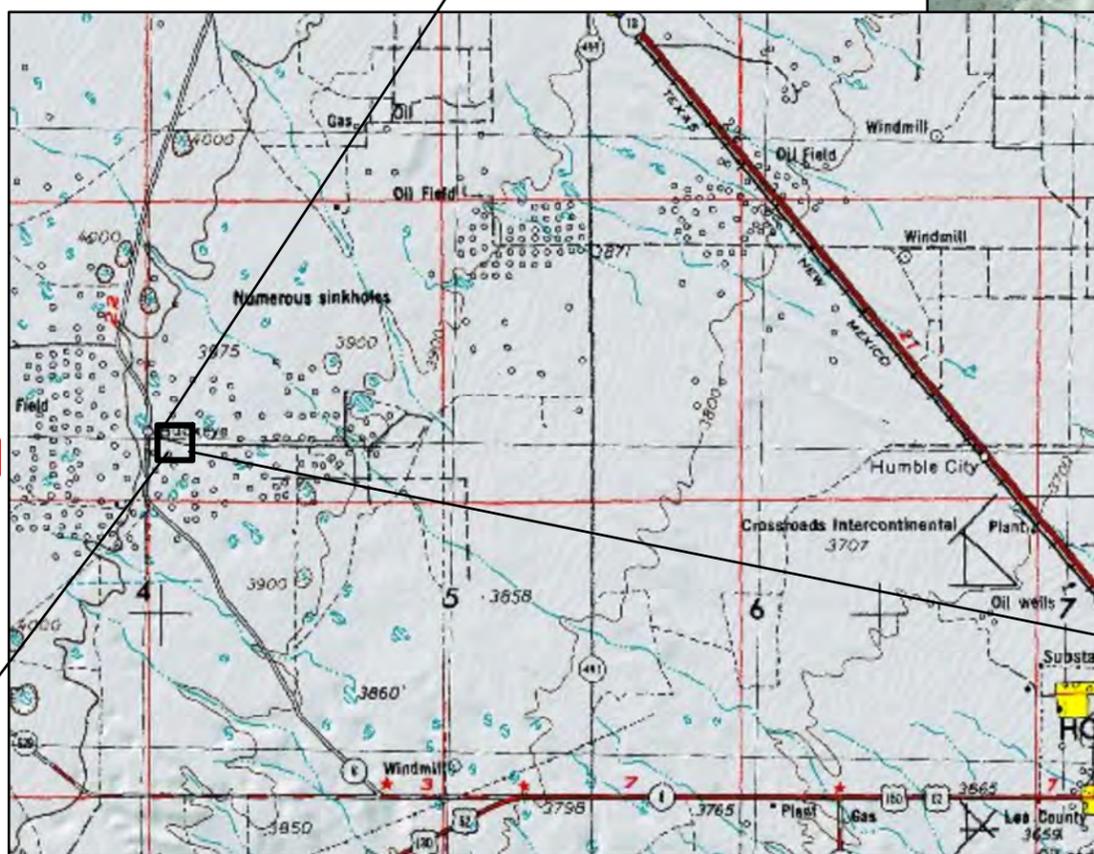
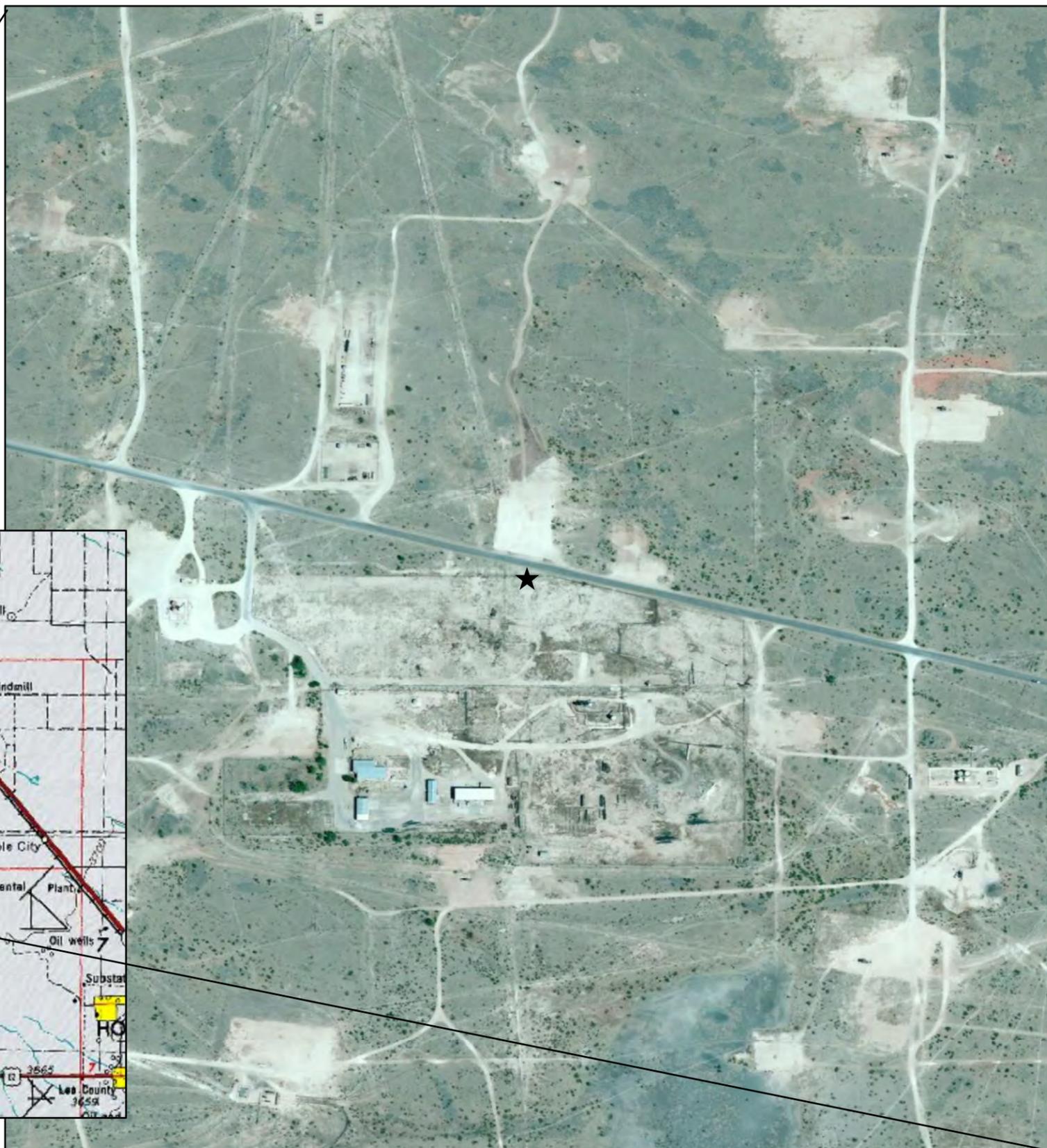
Ca = concentration in air sample  
 Q = flow rate in cubic feet per minute  
 E = emissions rate  
 ug/m<sup>3</sup> = micrograms per cubic meter  
 g/cf = grams per cubic foot  
 g/min = grams per min  
 NA = Not Applicable since system was not fully operational (167 hours) during the monitoring period and/or during sample collection.  
 NC = Not Collected

lb/hr = pounds per hour  
 hr = hour  
 V = Vacuum in inches of water column

$$E_{total} \text{ (lbs/period)} = \frac{\text{ug}}{\text{m}^3} * \frac{1 \text{ g}}{1000000 \text{ ug}} * \frac{1 \text{ m}^3}{35.31 \text{ ft}^3} * \frac{\text{ft}^3}{\text{min}} * \frac{1 \text{ lb}}{453.9 \text{ g}} * \frac{60 \text{ min}}{1 \text{ hr}} * \frac{\text{hrs}}{\text{period}}$$

**Total Pilot Test VOC Emissions 0.0694**

## Figures



DATE:	June 2015
DESIGNED BY:	T. Johansen
DRAWN BY:	D. Arnold



**TASMAN**  
GEOSCIENCES  
Tasman Geosciences, LLC  
6899 Pecos Street - Unit C  
Denver, CO 80221

**DCP Midstream**  
**Former Lee Gas Plant**  
SW 1/4, SE 1/4, Section 30, Township 17 South, Range 35 East  
Lea County, New Mexico

Site Location  
Map

Figure  
1



DATE: January 2020  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: J. Clonts



**DCP Midstream  
 Former Lee Gas Plant**  
 Second Half 2020 Semi-Annual Groundwater Monitoring  
 Summary Report

Site Map with Monitoring and  
 Remediation Well Locations

**Figure  
 2**



DATE:	August 2020
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts

**TASMAN** GEOSCIENCES  
 Tasman Geosciences, Inc.  
 6855 W. 119th Ave  
 Broomfield, CO 80020

**DCP Midstream  
 Former Lee Gas Plant**  
 Second Half 2019 Semi-Annual Groundwater Monitoring  
 Summary Report

Groundwater Elevation  
 Contour Map  
 (June 30, 2020)

Figure  
 3



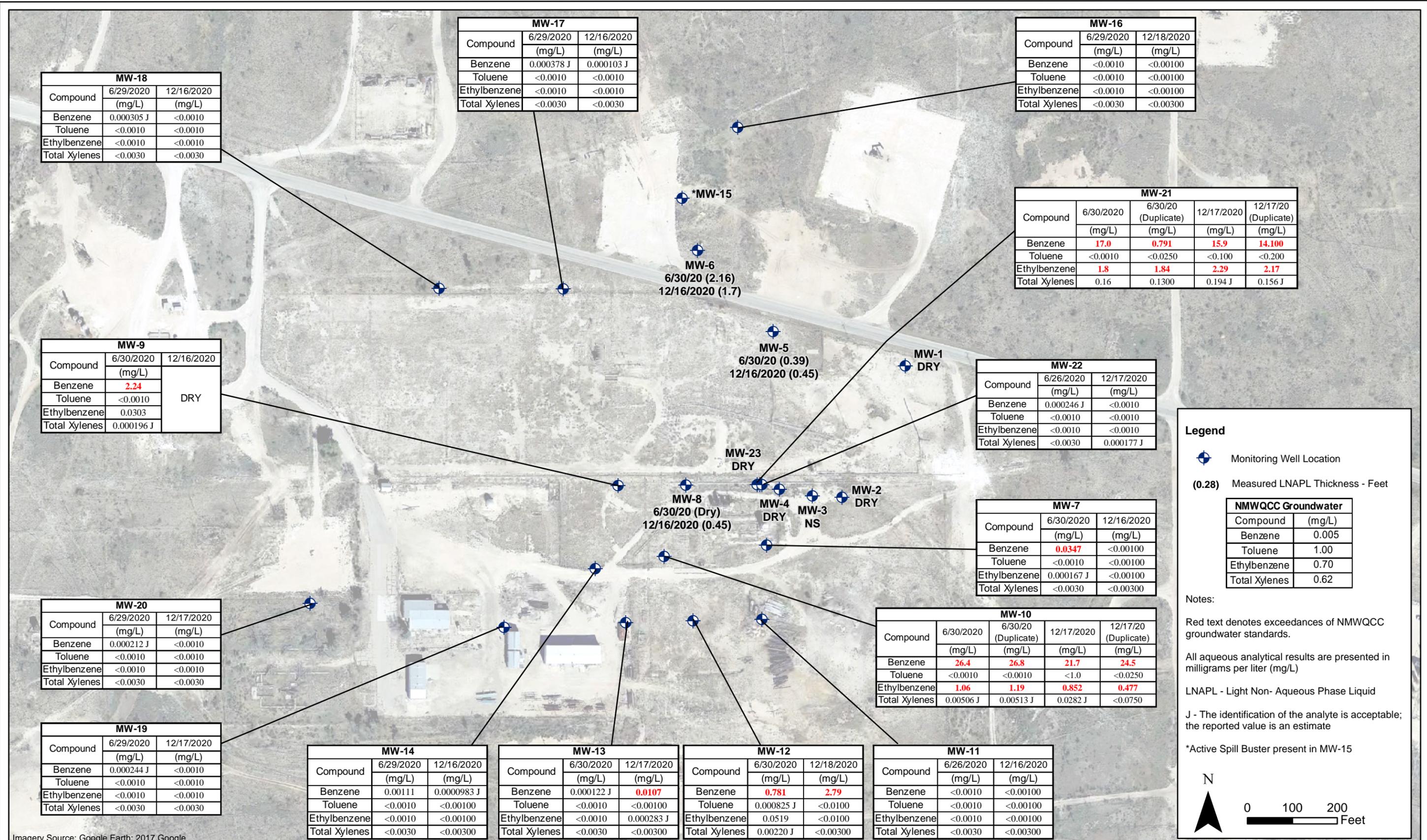
DATE:	August 2020
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts

**TASMAN**  
GEOSCIENCES  
Tasman Geosciences, Inc.  
6855 W. 119th Ave  
Broomfield, CO 80020

**DCP Midstream  
Former Lee Gas Plant**  
Second Half 2020 Semi-Annual Groundwater Monitoring  
Summary Report

Groundwater Elevation  
Contour Map  
(December 16, 2020)

**Figure  
4**



DATE: January 2021  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: J. Clonts



**DCP Midstream  
 Former Lee Gas Plant**  
 Second Half 2020 Semi-Annual Groundwater Monitoring  
 Summary Report

Analytical Results  
 Map

Figure  
 5

Appendix A  
Historical Analytical Data

**APPENDIX A**  
**HISTORICAL ANALYTICAL RESULTS**  
**BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-1	03/01/08	1.4	0.0395	0.948	0.128	
MW-1	06/01/08	2.75	0.054	2.17	0.232	
MW-1	09/01/08	1.1	0.0375	0.845	0.131	
MW-1	12/01/08	0.869	0.0385	0.581	0.0709	
MW-1	03/01/09	0.288	0.0149	0.107	0.0395	
MW-1	05/01/09	1.38	0.0705	0.175	0.065	
MW-1	09/01/09	0.267	0.024	0.0332	0.0078	
MW-1	12/2009	0.819	0.088	0.0267	0.012	
MW-1	03/01/10	0.726	0.0879	0.107	0.0278	
MW-1	Removed from sampling plan					
MW-2	03/01/08	8.98	0.135	6.58	0.765	
MW-2	06/01/08	24.3	0.319	18.5	2.58	
MW-2	09/01/08	21.7	0.443	9.79	4.25	
MW-2	12/01/08	Not Sampled: Remediation Activities				
MW-2	03/01/09	23.7	0.538	2.34	1.25	
MW-2	05/01/09	32.7	0.791	1.31	1.69	
MW-2	09/01/09	29.3	0.491	0.771	0.371	
MW-2	12/01/09	28.5	0.57	0.347	0.177	
MW-2	03/01/10	23.8	0.529	0.71	<1.2	
MW-2	Removed from sampling plan					
MW-3	09/27/05	<0.47	<0.54	<0.48	<2.0	
MW-3	12/21/06	<0.23	<0.54	<0.48	<1.1	
MW-3	03/01/08	Dry				
MW-3	06/01/08	Dry				
MW-3	09/01/08	Dry				
MW-3	12/01/08	Dry				
MW-3	03/01/09	Dry				
MW-3	05/01/09	Dry				
MW-3	09/01/09	Dry				
MW-3	12/01/09	Dry				
MW-3	03/01/10	Dry				
MW-3	03/29/10	Dry				
MW-3	09/24/10	Dry				
MW-3	06/03/11	Dry				
MW-3	12/15/11	Dry				
MW-3	06/07/12	Dry				
MW-3	12/06/12	Dry				
MW-3	06/05/13	Dry				
MW-3	12/04/13	Dry				
MW-3	06/04/14	Dry				
MW-3	12/05/14	Dry				
MW-3	Removed from sampling plan					

**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX CONCENTRATIONS IN GROUNDWATER  
FORMER LEE GAS PLANT  
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-4	12/21/06	<b>0.03</b>	0.0058	<0.48	0.0075	
MW-4	12/01/09			Dry		
MW-4	06/01/08			Dry		
MW-4	09/01/08			Dry		
MW-4	12/01/08			Dry		
MW-4	03/01/09			Dry		
MW-4	05/01/09			Dry		
MW-4	09/01/09			Dry		
MW-4	12/01/09			Dry		
MW-4	03/01/10			Dry		
MW-4		Removed from sampling plan				
MW-5	03/01/08			LNAPL		
MW-5	03/29/10			LNAPL		
MW-5	09/24/10			LNAPL		
MW-5	06/03/11			LNAPL		
MW-5	12/15/11			LNAPL		
MW-5	06/07/12			LNAPL		
MW-5	12/06/12			LNAPL		
MW-5	06/05/13			LNAPL		
MW-5	12/04/13			LNAPL		
MW-5	06/04/14			LNAPL		
MW-5	12/05/14			LNAPL		
MW-5	06/04/15			LNAPL		
MW-5	12/15/15			LNAPL		
MW-5	06/21/16			LNAPL		
MW-5	12/20/16			LNAPL		
MW-5	06/20/17			LNAPL		
MW-5	12/19/17			LNAPL		
MW-5	06/25/18			LNAPL		
MW-5	12/13/18			LNAPL		
MW-5	06/17/19			LNAPL		
MW-5	12/18/19			LNAPL		
MW-5	06/30/20			LNAPL		
MW-5	12/16/20			LNAPL		

**APPENDIX A**  
**HISTORICAL ANALYTICAL RESULTS**  
**BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-6	12/21/06	<0.23	<0.54	<0.48	<1.1	
MW-6	03/29/10			LNAPL		
MW-6	09/24/10			LNAPL		
MW-6	06/03/11			LNAPL		
MW-6	12/15/11			LNAPL		
MW-6	12/06/12			LNAPL		
MW-6	06/07/12			LNAPL		
MW-6	06/05/13			LNAPL		
MW-6	12/04/13			LNAPL		
MW-6	06/04/14			LNAPL		
MW-6	12/05/14			LNAPL		
MW-6	06/04/15			LNAPL		
MW-6	12/15/15			LNAPL		
MW-6	06/21/16			LNAPL		
MW-6	12/20/16			LNAPL		
MW-6	06/20/17			LNAPL		
MW-6	12/19/17			LNAPL		
MW-6	06/25/18			LNAPL		
MW-6	12/13/18			LNAPL		
MW-6	06/17/19			LNAPL		
MW-6	12/18/19			LNAPL		
MW-6	06/30/20			LNAPL		
MW-6	12/16/20			LNAPL		
MW-7	09/24/04	<1.0	0.0012	0.0017	<2.0	
MW-7	09/27/05	0.001	<0.54	0.0025	<2.0	
MW-7	09/15/06	<b>0.74</b>	<0.54	0.0056	0.0086	
MW-7	12/21/06	<0.23	<0.54	<0.48	<1.1	
MW-7	09/20/07	<b>0.864</b>	<0.00054	0.006	0.0137	
MW-7	09/17/09	<b>5.75</b>	0.0018	0.002	0.0018	
MW-7	03/29/10	<b>4.98</b>	0.0017	0.0146	0.0088	
MW-7	03/29/10	<b>4.98</b>	0.0017	0.0146	0.0088	
MW-7	09/23/10	<b>0.976</b>	0.00057	0.0083	<0.0017	
MW-7	09/24/10	<b>0.976</b>	0.00057	0.0083	<0.0017	
MW-7	06/03/11	<0.001	<0.002	<0.002	<0.004	
MW-7	06/03/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-7	12/15/11	0.0013	<0.002	<0.002	<0.004	
MW-7	06/07/12	<b>0.037</b>	<0.005	<0.005	<0.015	
MW-7	12/06/12	<0.001	<0.001	<0.001	<0.003	
MW-7	06/04/13	0.0062	<0.001	<0.001	<0.001	
MW-7	12/04/13	<b>0.2</b>	<0.001	0.0073	0.01	
MW-7	06/04/14	<b>0.53</b>	<0.001	0.026	0.012	
MW-7	12/05/14	0.0066	<0.001	<0.001	<0.003	
MW-7	06/04/15	<b>0.23</b>	<0.001	0.0023	<0.003	
MW-7	12/15/15	0.0075	<0.001	<0.001	<0.003	
MW-7	06/22/16	<0.0010	<0.0010	<0.0010	<0.0030	
MW-7	12/20/16	<0.0010	<0.0010	<0.0010	<0.0010	
MW-7	06/20/17	<0.0010	<0.0010	<0.0010	<0.0010	
MW-7	12/19/17	<b>0.0633</b>	<0.0010	<0.0010	<0.0030	
MW-7	06/26/18	<b>0.0149</b>	<0.0010	<0.0010	<0.0030	
MW-7	12/13/18	<b>1.17</b>	<0.0010	0.0280	0.00278 J	
MW-7	06/19/19	<b>0.266</b>	<0.0050	0.00207 J	<0.0150	
MW-7	12/20/19	<b>0.0247</b>	<0.0010	<0.0010	<0.0030	
MW-7	06/30/20	<b>0.0347</b>	<0.00100	0.000167 J	<0.00300	
MW-7	12/17/20	<0.00100	<0.00100	<0.00100	<0.00300	

**APPENDIX A**  
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**BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-8	12/21/06	<0.23	<0.54	<0.48	<1.1	
MW-8	03/29/10			LNAPL		
MW-8	09/24/10			LNAPL		
MW-8	06/03/11			LNAPL		
MW-8	12/15/11			LNAPL		
MW-8	06/07/12			LNAPL		
MW-8	12/06/12			LNAPL		
MW-8	06/05/13			LNAPL		
MW-8	12/04/13			LNAPL		
MW-8	06/04/14			LNAPL		
MW-8	12/04/14			LNAPL		
MW-8	06/04/15			LNAPL		
MW-8	12/15/15			LNAPL		
MW-8	06/21/16			LNAPL		
MW-8	12/20/16			LNAPL		
MW-8	06/20/17			LNAPL		
MW-8	12/19/17			LNAPL		
MW-8	06/25/18			LNAPL		
MW-8	12/13/18			LNAPL		
MW-8	06/17/19			LNAPL		
MW-8	12/18/19			LNAPL		
MW-8	06/30/20			Dry		
MW-8	12/16/20			LNAPL		
MW-9	09/23/04	2.4	<1.0	0.013	0.0027	
MW-9	09/27/05	3.4	<0.54	0.053	0.0096	
MW-9	09/15/06	10.9	<0.54	-	0.025	
MW-9	09/20/07	22.6	<0.00054	0.27	0.0834	
MW-9	09/17/09	10.2	<0.00043	0.212	0.0351	
MW-9	03/29/10	0.376	<0.002	0.0016	<0.006	
MW-9	03/29/10	0.376	<0.00043	0.0016	<0.0017	
MW-9	09/23/10	0.0167	<0.00043	0.0008	<0.0017	
MW-9	09/24/10	0.0167	<0.002	0.0008	<0.0017	
MW-9	06/03/11	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/16/11	12.5	<0.40	0.39	<0.80	
MW-9	06/07/12	13	0.44	<0.025	<0.075	
MW-9	12/07/12	13	0.89	<0.050	0.28	Duplicate sample collected
MW-9	06/05/13	16	<0.010	0.96	0.38	Duplicate sample collected
MW-9	12/04/13	9.4	<0.010	0.61	0.025	Duplicate sample collected
MW-9	06/05/14	7.2	<0.01	0.53	0.12	Duplicate sample collected
MW-9 (Duplicate)	06/05/14	7.2	<0.01	0.53	0.12	
MW-9	12/05/14	2.9	<0.001	0.4	0.096	Duplicate sample collected
MW-9 (Duplicate)	12/05/14	3.1	<0.001	0.4	0.11	
MW-9	06/04/15	0.77	<0.001	0.041	0.0059	Duplicate sample collected
MW-9 (Duplicate)	06/04/15	0.88	<0.001	0.048	0.0081	
MW-9	12/15/15	1.1	0.001	0.081	0.011	Duplicate #1 sample collected
MW-9 (Duplicate)	12/15/15	0.67	<0.001	0.036	<0.003	
MW-9	06/22/16	4.3	<0.0010	0.13	0.028	Duplicate #1 sample collected
MW-9 (Duplicate)	06/22/16	4	<0.0010	0.13	0.026	
MW-9	12/20/16	8.9	<0.010	0.65	0.21	
MW-9	06/20/17	3.7	<0.010	0.26	0.062	
MW-9	12/19/17	4.53	<0.0010	0.374	0.0717	
MW-9	06/26/18	3.16	<0.0250	0.247	<0.0750	
MW-9	12/13/18	3.61	<0.0010	0.272	0.0423	
MW-9	06/19/19	3.92	<0.020	0.244	0.0452 J	
MW-9	12/20/19	3.22	<0.020	0.234	0.0892	
MW-9	06/30/20	2.24	<0.00100	0.0303	0.00196 J	
MW-9	12/16/20			Dry		

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Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-10	09/24/04	<b>0.022</b>	<1.0	<1.0	<2.0	
MW-10	09/27/05	0.0032	<0.54	<0.48	<2.0	
MW-10	09/15/06	0.0025	<0.54	<0.48	<1.1	
MW-10	09/20/07	<b>3.67</b>	<0.00054	0.0016	<0.0011	
MW-10	09/17/09	<b>3.58</b>	<0.00043	0.0411	<0.0017	
MW-10	03/29/10	<b>0.192</b>	<0.002	0.00095	<0.006	
MW-10	03/29/10	<b>0.192</b>	<0.00043	0.00095	<0.0017	
MW-10	09/24/10	<b>12.2</b>	<0.002	0.0723	0.0026	
MW-10	09/24/10	<b>12.2</b>	<0.00043	0.0723	0.0026	
MW-10	06/03/11	<0.001	<0.002	<0.002	<0.004	
MW-10	06/03/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-10	12/15/11	<b>12.5</b>	<0.40	0.204	<0.80	
MW-10	06/07/12	<b>29</b>	0.19	<0.05	<0.15	
MW-10	12/07/12	<b>27</b>	0.23	<0.050	<0.15	
MW-10	06/05/13	<b>26</b>	<0.010	0.33	<0.010	
MW-10	12/04/13	<b>19</b>	<0.010	0.3	<0.01	
MW-10	06/05/14	<b>20</b>	<0.01	0.55	<0.01	
MW-10	12/05/14	<b>16</b>	<0.025	0.23	<0.075	
MW-10	06/04/15	<b>24</b>	<0.01	0.37	<0.003	
MW-10	12/15/15	<b>11</b>	<0.01	0.28	0.033	
MW-10	06/22/16	<b>20</b>	<0.010	0.62	<0.030	
MW-10	12/20/16	<b>30</b>	<0.010	0.57	0.015	Duplicate #1 sample collected
MW-10 (Duplicate)	12/20/16	<b>29</b>	<0.010	0.55	0.013	
MW-10	06/21/17	<b>18</b>	<0.025	0.62	<0.025	Duplicate #1 sample collected
MW-10 (Duplicate)	06/21/17	<b>19</b>	<0.025	0.65	<0.025	
MW-10	12/19/17	<b>28.7</b>	0.000553 J	<b>1.93</b>	0.0274	Duplicate #1 sample collected
MW-10 (Duplicate)	12/19/17	<b>28.5</b>	<0.0010	<b>1.88</b>	0.0251	
MW-10	06/26/18	<b>18.0</b>	<0.20	<b>1.43</b>	<0.60	Duplicate #1 sample collected
MW-10 (Duplicate)	06/26/18	<b>14.9</b>	<0.20	<b>1.17</b>	<0.60	
MW-10	12/13/18	<b>19.8</b>	<0.010	<b>1.56</b>	0.0116 J	Duplicate #1 sample collected
MW-10 (Duplicate)	12/13/18	<b>23.4</b>	<0.050	<b>1.38</b>	<0.150	
MW-10	06/19/19	<b>18.0</b>	<0.10	<b>1.32</b>	<0.30	Duplicate A sample collected
MW-10 (Duplicate)	06/19/19	<b>18.5</b>	<0.20	<b>1.26</b>	<0.60	
MW-10	12/20/19	<b>14.3</b>	<0.10	<b>1.13</b>	<0.30	
MW-10	06/30/20	<b>26.4</b>	<0.0100	<b>1.06</b>	0.00506 J	Duplicate B sample collected
MW-10 (Duplicate)	06/30/20	<b>26.8</b>	<0.0100	<b>1.19</b>	0.00513 J	
MW-10	12/17/20	<b>21.7</b>	<1.0	<b>0.852</b>	0.0282 J	Duplicate A sample collected
MW-10 (Duplicate)	12/17/20	<b>24.5</b>	<0.0250	<b>0.477</b>	<0.0750	

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Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-11	09/23/04	<1.0	<1.0	<1.0	<2.0	
MW-11	03/14/05	<1.0	<1.0	<1.0	<2.0	
MW-11	09/26/05	<0.47	<0.54	<0.48	<2.0	
MW-11	03/02/06	<0.47	<0.54	<0.48	<2.0	
MW-11	09/14/06	<0.23	<0.54	<0.48	<1.1	
MW-11	03/28/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-11	09/20/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-11	03/20/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-11	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-11	09/18/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-11	03/29/10	<0.002	<0.002	<0.002	<0.006	
MW-11	03/29/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-11	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-11	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-11	06/03/11	<0.001	<0.002	<0.002	<0.004	
MW-11	06/03/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-11	12/15/11	<0.001	<0.002	<0.002	<0.004	
MW-11	06/08/12	<0.005	<0.005	<0.005	<0.015	
MW-11	12/06/12	<0.001	<0.001	<0.001	<0.003	
MW-11	06/04/13	<0.001	<0.001	<0.001	<0.001	
MW-11	12/04/13	<0.001	<0.001	<0.001	<0.001	
MW-11	06/04/14	<0.001	<0.001	<0.001	<0.001	
MW-11	12/04/14	<0.001	<0.001	<0.001	<0.003	
MW-11	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-11	12/15/15	<0.001	<0.001	<0.001	<0.003	
MW-11	06/22/16	<0.0010	<0.0010	<0.0010	<0.0030	
MW-11	12/20/16	<0.0010	<0.0010	<0.0010	<0.0010	
MW-11	06/20/17	<0.0010	<0.0010	<0.0010	<0.0010	
MW-11	12/19/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-11	06/26/18	<0.0010	0.000668 B J	<0.0010	<0.0030	
MW-11	12/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-11	06/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-11	12/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-11	06/26/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-11	12/16/20	<0.00100	<0.00100	<0.00100	<0.00300	

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Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-12	09/23/04	<1.0	<1.0	<1.0	<2.0	
MW-12	03/14/05	<1.0	<1.0	<1.0	<2.0	
MW-12	09/26/05	<0.47	<0.54	<0.48	<2.0	
MW-12	03/02/06	<0.47	<0.54	<0.48	<2.0	
MW-12	09/14/06	<0.23	<0.54	<0.48	<1.1	
MW-12	03/28/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-12	09/20/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-12	03/20/08	<0.00046	0.00065	<0.00045	<0.0014	
MW-12	11/10/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-12	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-12	09/18/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-12	03/29/10	<0.002	<0.002	<0.002	<0.006	
MW-12	03/29/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-12	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-12	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-12	06/03/11	<0.001	<0.002	<0.002	<0.004	
MW-12	06/03/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-12	12/16/11	<0.001	<0.002	<0.002	<0.004	
MW-12	06/07/12	<b>0.74</b>	<0.005	<0.005	<0.015	
MW-12	12/07/12	<b>5.5</b>	0.0086	<0.005	<0.015	
MW-12	06/05/13	<b>4.3</b>	<0.005	<0.005	<0.005	
MW-12	12/04/13	<b>3.7</b>	<0.0010	0.0011	<0.001	
MW-12	06/04/14	<b>8.1</b>	<0.001	0.0038	0.0015	
MW-12	12/05/14	<b>2.8</b>	<0.001	0.0014	<0.003	
MW-12	06/04/15	<b>1.3</b>	<0.005	<0.005	<0.015	
MW-12	12/15/15	<b>2.3</b>	<0.01	<0.01	<0.03	
MW-12	06/22/16	<b>8.3</b>	<0.010	<0.010	<0.030	
MW-12	12/20/16	<b>11</b>	<0.010	0.12	<0.010	
MW-12	06/20/17	<b>4.4</b>	<0.0050	0.021	<0.0050	
MW-12	12/19/17	<b>5.68</b>	0.000927 J	0.00345	0.00401	
MW-12	06/26/18	<b>7.32</b>	<0.050	0.0957	<0.150	
MW-12	12/13/18	<b>13.5</b>	<0.0250	0.0266	<0.0750	
MW-12	06/19/19	<b>3.05</b>	<0.10	<0.10	<0.30	
MW-12	12/20/19	<b>11.7</b>	<0.10	0.0715 J	<0.30	
MW-12	06/30/20	<b>0.781</b>	0.000825 J	0.0519	0.00220 J	
MW-12	12/18/20	<b>2.79</b>	<0.0100	<0.0100	<0.00300	

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Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-13	09/23/04	<1.0	<1.0	<1.0	<2.0	
MW-13	03/14/05	<1.0	<1.0	<1.0	<2.0	
MW-13	09/26/05	<0.47	<0.54	<0.48	<2.0	
MW-13	03/02/06	<0.47	<0.54	<0.48	<2.0	
MW-13	09/14/06	<0.23	<0.54	<0.48	<1.1	
MW-13	03/28/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-13	09/20/07	0.00092	<0.00054	<0.00048	<0.0011	
MW-13	03/20/08	<0.00046	0.0005	<0.00045	<0.0014	
MW-13	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-13	09/18/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-13	03/29/10	<0.002	<0.002	<0.002	<0.006	
MW-13	03/29/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-13	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-13	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-13	06/03/11	<0.001	<0.002	<0.002	<0.004	
MW-13	06/03/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-13	12/16/11	<0.001	<0.002	<0.002	<0.004	
MW-13	06/07/12	<0.005	<0.005	<0.005	<0.015	
MW-13	12/06/12	<0.001	<0.001	<0.001	<0.003	
MW-13	06/04/13	0.0022	<0.001	<0.001	<0.001	
MW-13	12/04/13	<0.001	<0.001	<0.001	<0.001	
MW-13	06/04/14	<0.001	<0.001	<0.001	<0.001	
MW-13	12/04/14	<0.001	<0.001	<0.001	<0.003	MS/MSD Collected
MW-13	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-13	12/15/15	<0.001	<0.001	<0.001	<0.003	
MW-13	06/22/16	0.0016	<0.0010	<0.0010	<0.0030	
MW-13	12/20/16	0.0038	<0.0010	<0.0010	<0.0010	
MW-13	06/20/17	<b>0.17</b>	<0.0010	<0.0010	0.0023	
MW-13	12/19/17	0.00731	<0.0010	0.000574 J	<0.0030	
MW-13	06/25/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-13	12/12/18	<b>0.0872</b>	<0.0010	<0.0010	<0.0030	
MW-13	06/19/19	0.0064	<0.0010	<0.0010	<0.0030	
MW-13	12/20/19	0.000434 J	<0.0010	<0.0010	<0.0030	
MW-13	06/30/20	0.000122 J	<0.00100	<0.00100	<0.00300	
MW-13	12/17/20	<b>0.0107</b>	<0.00100	0.000283 J	<0.00300	

**APPENDIX A**  
**HISTORICAL ANALYTICAL RESULTS**  
**BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-14	09/23/04	<1.0	<1.0	<1.0	<2.0	
MW-14	09/27/05	0.0017	<0.54	<0.48	<2.0	
MW-14	09/15/06	<b>0.14</b>	<0.54	0.003	<1.1	
MW-14	09/20/07	0.003	<0.00054	<0.00048	<0.0011	
MW-14	09/18/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-14	03/29/10	NS	NS	NS	NS	
MW-14	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-14	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-14	06/03/11	NS	NS	NS	NS	
MW-14	12/15/11	<b>0.231</b>	<0.002	0.0095	<0.004	
MW-14	06/07/12	<0.005	<0.005	<0.005	<0.015	
MW-14	12/07/12	0.0024	<0.001	<0.001	<0.003	
MW-14	06/05/13	0.0019	<0.001	<0.001	<0.001	
MW-14	12/04/13	<b>0.44</b>	<0.001	<0.001	<0.001	
MW-14	06/04/14	<b>0.9</b>	<0.001	0.0052	0.0067	
MW-14	12/05/14	<0.001	<0.001	<0.001	<0.003	
MW-14	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-14	12/15/15	<0.001	<0.001	<0.001	<0.003	
MW-14	06/22/16	<0.0010	<0.0010	<0.0010	<0.0030	
MW-14	12/20/16	<0.0010	<0.0010	<0.0010	<0.0010	
MW-14	06/20/17	0.0017	<0.0010	<0.0010	<0.0010	
MW-14	12/19/17	0.000343 J	<0.0010	<0.0010	<0.0030	
MW-14	06/25/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-14	12/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-14	06/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-14	12/20/19	0.000507 J	<0.0010	<0.0010	<0.0030	
MW-14	06/29/20	0.00111	<0.00100	<0.00100	<0.00300	
MW-14	12/16/20	0.0000983 J	<0.00100	<0.00100	<0.00300	
MW-15	03/29/10			LNAPL		
MW-15	09/24/10			LNAPL		
MW-15	06/03/11			LNAPL		
MW-15	12/15/11			LNAPL		
MW-15	06/07/12			LNAPL		
MW-15	12/06/12			LNAPL		
MW-15	06/05/13			LNAPL		
MW-15	12/04/13			LNAPL		
MW-15	06/04/14			LNAPL		
MW-15	12/05/14			LNAPL		
MW-15	06/04/15			LNAPL		
MW-15	12/15/15			LNAPL		
MW-15	06/21/16			LNAPL		
MW-15	12/20/16			LNAPL		
MW-15	06/20/17			LNAPL		
MW-15	12/19/17			LNAPL		
MW-15	06/25/18			LNAPL		Active Spill Buster in Well
MW-15	12/13/18			LNAPL		Active Spill Buster in Well
MW-15	06/17/19			LNAPL		Active Spill Buster in Well
MW-15	12/18/19			LNAPL		Active Spill Buster in Well
MW-15	06/30/20			LNAPL		Active Spill Buster in Well
MW-15	12/16/20			LNAPL		Active Spill Buster in Well

**APPENDIX A**  
**HISTORICAL ANALYTICAL RESULTS**  
**BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-16	09/23/04	0.012	<1.0	<1.0	<2.0	
MW-16	09/26/05	0.016	<0.54	<0.48	<2.0	
MW-16	09/14/06	0.2	0.0097	0.0035	0.0078	
MW-16	09/20/07	0.0309	0.0014	0.00053	0.0018	
MW-16	09/18/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-16	03/29/10	NS	NS	NS	NS	
MW-16	09/23/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-16	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-16	06/03/11	NS	NS	NS	NS	
MW-16	12/15/11	<0.001	<0.002	<0.002	<0.004	
MW-16	06/08/12	<0.005	<0.005	<0.005	<0.015	
MW-16	12/06/12	0.051	0.0013	0.0027	<0.003	
MW-16	06/05/13	0.0086	<0.001	<0.001	<0.001	
MW-16	12/04/13	0.078	0.0029	0.0028	0.0032	
MW-16	06/04/14	0.071	0.0014	0.0019	0.0039	
MW-16	12/04/14	0.037	<0.001	<0.001	<0.003	
MW-16	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-16	12/15/15	0.007	<0.001	<0.001	<0.003	
MW-16	06/21/16	0.011	<0.0010	<0.0010	<0.0030	
MW-16	12/20/16	0.0021	<0.0010	<0.0010	<0.0010	
MW-16	06/20/17	0.002	<0.0010	<0.0010	<0.0010	
MW-16	12/19/17	0.00971	0.000560 J	0.000602 J	<0.0030	
MW-16	06/26/18	0.00268	<0.0010	<0.0010	<0.0030	
MW-16	12/11/18	0.103	0.00250	0.00817	0.0129	
MW-16	06/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-16	12/18/19	0.00127	<0.0010	<0.0010	<0.0030	
MW-16	06/29/20	<0.0010	<0.0010	<0.0010	<0.0030	
MW-16	12/18/20	0.00769	0.000450 J	0.000201 J	0.000340 J	
MW-17	09/23/04	<1.0	<1.0	<1.0	<2.0	
MW-17	09/26/05	0.0018	<0.54	<0.48	<2.0	
MW-17	09/14/06	<0.23	<0.54	<0.48	<1.1	
MW-17	09/20/07	0.0118	<0.00054	<0.00048	<0.0011	
MW-17	09/18/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-17	03/29/10	NS	NS	NS	NS	
MW-17	09/23/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-17	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-17	06/03/11	NS	NS	NS	NS	
MW-17	12/15/11	<0.001	<0.002	<0.002	<0.004	
MW-17	06/07/12	<0.005	<0.005	<0.005	<0.015	
MW-17	12/06/12	<0.001	<0.001	<0.001	<0.003	
MW-17	06/04/13	<0.001	<0.001	<0.001	<0.001	
MW-17	12/04/13	0.0014	<0.001	<0.001	<0.001	
MW-17	06/04/14	<0.001	<0.001	<0.001	<0.001	
MW-17	12/04/14	0.0022	<0.001	<0.001	<0.003	
MW-17	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-17	12/15/15	<0.001	<0.001	<0.001	<0.003	
MW-17	06/21/16	<0.0010	<0.0010	<0.0010	<0.0030	
MW-17	12/20/16	<0.0010	<0.0010	<0.0010	<0.0010	
MW-17	06/20/17	<0.0010	<0.0010	<0.0010	<0.0010	
MW-17	12/19/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-17	06/26/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-17	12/12/18	0.000417 J	<0.0010	<0.0010	<0.0030	
MW-17	06/17/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-17	12/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-17	06/29/20	0.000378 J	<0.0010	<0.0010	<0.0030	
MW-17	12/16/20	0.000103 J	<0.0010	<0.0010	<0.0030	

**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX CONCENTRATIONS IN GROUNDWATER  
FORMER LEE GAS PLANT  
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-18	09/23/04	<1.0	<1.0	<1.0	<2.0	
MW-18	09/26/05	<0.47	<0.54	<0.48	<2.0	
MW-18	09/14/06	<0.23	<0.54	<0.48	<1.1	
MW-18	09/20/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-18	09/17/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-18	03/29/10	NS	NS	NS	NS	
MW-18	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-18	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-18	06/03/11	NS	NS	NS	NS	
MW-18	12/16/11	<0.001	<0.002	<0.002	<0.004	
MW-18	06/07/12	<0.005	<0.005	<0.005	<0.015	
MW-18	12/06/12	<0.001	<0.001	<0.001	<0.003	
MW-18	06/04/13	<0.001	<0.001	<0.001	<0.001	
MW-18	12/04/13	<0.001	<0.001	<0.001	<0.001	
MW-18	06/04/14	<0.001	<0.001	<0.001	<0.001	
MW-18	12/04/14	<0.001	<0.001	<0.001	<0.003	
MW-18	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-18	12/15/15	<0.001	<0.001	<0.001	<0.003	
MW-18	06/21/16	<0.0010	<0.0010	<0.0010	<0.0030	
MW-18	12/20/16	<0.0010	<0.0010	<0.0010	<0.0010	
MW-18	06/20/17	<0.0010	<0.0010	<0.0010	<0.0010	
MW-18	12/19/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-18	06/26/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-18	12/12/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-18	06/17/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-18	12/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-18	06/29/20	0.000305 J	<0.0010	<0.0010	<0.0030	
MW-18	12/16/20	<0.00100	<0.00100	<0.00100	<0.00300	

**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX CONCENTRATIONS IN GROUNDWATER  
FORMER LEE GAS PLANT  
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-19	09/23/04	<1.0	<1.0	<1.0	<2.0	
MW-19	03/14/05	<1.0	<1.0	<1.0	<2.0	
MW-19	09/26/05	<0.47	<0.54	<0.48	<2.0	
MW-19	03/02/06	<0.47	<0.54	<0.48	<2.0	
MW-19	09/14/06	<0.23	<0.54	<0.48	<1.1	
MW-19	03/28/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-19	09/20/07	0.001	<0.00054	<0.00048	<0.0011	
MW-19	03/20/08	<0.00046	0.00061	<0.00045	<0.0014	
MW-19	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-19	09/17/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-19	03/29/10	<0.002	<0.002	<0.002	<0.006	
MW-19	03/29/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-19	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-19	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-19	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-19	06/03/11	<0.001	<0.002	<0.002	<0.004	
MW-19	06/03/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-19	12/16/11	<0.001	<0.002	<0.002	<0.004	
MW-19	06/07/12	<0.005	<0.005	<0.005	<0.015	
MW-19	12/06/12	<0.001	<0.001	<0.001	<0.003	
MW-19	06/04/13	<0.001	<0.001	<0.001	<0.001	
MW-19	12/04/13	<0.001	<0.001	<0.001	<0.001	
MW-19	06/04/14	<0.001	<0.001	<0.001	<0.001	
MW-19	12/04/14	<0.001	<0.001	<0.001	<0.003	
MW-19	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-19	12/15/15	<0.001	<0.001	<0.001	<0.003	
MW-19	06/21/16	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	12/20/16	<0.0010	<0.0010	<0.0010	<0.0010	
MW-19	06/20/17	<0.0010	<0.0010	<0.0010	<0.0010	
MW-19	12/19/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	06/25/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	12/12/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	06/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	12/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	06/29/20	0.000244 J	<0.0010	<0.0010	<0.0030	
MW-19	12/17/20	<0.00100	<0.00100	<0.00100	<0.00300	

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**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-20	09/23/04	<11	<11	<11	<22	
MW-20	03/14/05	<1.0	<1.0	<1.0	<2.0	
MW-20	09/26/05	<0.47	<0.54	<0.48		
MW-20	03/02/06	<0.47	<0.54	<0.48	<2.0	
MW-20	09/14/06	<0.23	<0.54	0.0023	<1.1	
MW-20	03/28/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-20	09/20/07	<0.00023	<0.00054	<0.00048	<0.0011	
MW-20	03/20/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-20	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-20	09/17/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-20	03/29/10	<0.002	<0.002	<0.002	<0.006	
MW-20	03/29/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-20	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-20	09/24/10	<0.002	<0.002	<0.002	<0.006	
MW-20	09/24/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-20	06/03/11	<0.001	<0.002	<0.002	<0.004	
MW-20	06/03/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-20	12/15/11	0.0013	<0.002	<0.002	<0.004	
MW-20	06/07/12	<0.005	<0.005	<0.005	<0.015	
MW-20	12/06/12	<0.001	<0.001	<0.001	<0.003	
MW-20	06/04/13	<0.001	<0.001	<0.001	<0.001	
MW-20	12/04/13	<0.001	<0.001	<0.001	<0.001	
MW-20	06/04/14	<0.001	<0.001	<0.001	<0.001	
MW-20	12/04/14	<0.001	<0.001	<0.001	<0.003	
MW-20	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-20	12/15/15	<0.001	<0.001	<0.001	<0.003	
MW-20	06/21/16	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	12/20/16	<0.0010	<0.0010	<0.0010	<0.0010	
MW-20	06/20/17	<0.0010	<0.0010	<0.0010	<0.0010	
MW-20	12/19/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	06/25/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	12/12/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	06/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	12/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	06/29/20	0.000212 J	<0.0010	<0.0010	<0.0030	
MW-20	12/17/20	<0.00100	<0.00100	<0.00100	<0.00300	

**APPENDIX A**  
**HISTORICAL ANALYTICAL RESULTS**  
**BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-21	09/23/04	8.5	<1.0	0.14	0.2	
MW-21	03/14/05	6.7	<1.0	0.17	0.29	
MW-21	09/27/05	4.4	<0.54	0.087	0.11	
MW-21	03/02/06	2.4	0.00062	0.069	0.11	
MW-21	09/15/06	0.48	<0.54	0.023	0.034	
MW-21	03/28/07	13.2	0.0059	0.839	0.883	
MW-21	09/20/07	7.23	0.00067	0.462	0.321	
MW-21	03/20/08	0.899	<0.00048	0.0399	0.0452	
MW-21	03/11/09	0.216	<0.00048	0.0018	<0.0014	
MW-21	09/17/09	12.1	0.0034	1.09	0.312	
MW-21	03/29/10	14.8	0.00265	1.54	0.1945	
MW-21	03/29/10	13	0.0023	1.32	0.0959	
MW-21	09/24/10	11.555	0.0019	1.535	0.02645	
MW-21	09/25/10	9.41	0.002	1.4	0.0104	
MW-21	06/03/11	7.97	0.0012	0.536	<0.004	Duplicate sample collected
MW-21	06/03/11	7.78	0.0011	0.465	<0.0020	
MW-21	12/16/11	0.671	<0.02	0.0513	<0.04	Duplicate sample collected
MW-21	06/07/12	4.4	0.24	<0.025	0.086	Duplicate sample collected
MW-21	12/07/12	1.9	0.24	<0.005	0.098	
MW-21	06/05/13	0.78	<0.001	0.097	0.011	
MW-21	12/04/13	1.8	<0.0010	0.1	0.0064	
MW-21	06/04/14	1.5	<0.001	0.18	0.1	
MW-21	12/05/14	3.1	0.0011	0.6	0.22	
MW-21	06/04/15	3	<0.001	0.2	0.043	
MW-21	12/15/15	6.1	<0.025	1.8	0.67	Duplicate #2 sample collected
MW-21 (Duplicate)	12/15/15	6	<0.025	1.8	0.69	
MW-21	06/22/16	11	<0.010	1.5	0.54	Duplicate #2 sample collected
MW-21 (Duplicate)	06/22/16	12	<0.010	1.6	0.42	
MW-21	12/20/16	11	<0.010	1.3	0.31	Duplicate #2 sample collected
MW-21 (Duplicate)	12/20/16	12	<0.010	1.3	0.37	
MW-21	06/20/17	1.7	<0.0050	0.13	0.011	Duplicate #2 sample collected
MW-21 (Duplicate)	06/20/17	1.7	<0.0050	0.13	0.0096	
MW-21	12/19/17	7.43	0.00151	0.849	0.117	
MW-21 (Duplicate)	12/19/17	8.07	0.00161	0.925	0.133	
MW-21	06/26/18	15.0	<0.050	1.19	0.241	Duplicate #2 sample collected
MW-21 (Duplicate)	06/26/18	13.0	<0.050	1.15	0.20	
MW-21	12/13/18	9.51	<0.050	1.14	0.0899 J	Duplicate #2 sample collected
MW-21 (Duplicate)	12/13/18	12.1	<0.020	1.24	0.0961	
MW-21	06/19/19	15.4	<0.20	1.87	0.351 J	Duplicate B sample collected
MW-21 (Duplicate)	06/19/19	17.6	<0.20	2.13	0.335 J	
MW-21	12/20/19	11.1	<0.20	1.24	<0.60	Duplicate sample collected
MW-21 (Duplicate)	12/20/19	11.4	<0.20	1.3	0.220 J	
MW-21	06/30/20	17.0	<0.0010	1.80	0.155	Duplicate A sample collected
MW-21 (Duplicate)	06/30/20	0.791	<0.0250	1.84	0.130	
MW-21	12/17/20	15.9	<0.100	2.29	0.194 J	Duplicate B sample collected
MW-21 (Duplicate)	12/17/20	14.1	<0.200	2.17	0.156 J	

**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX CONCENTRATIONS IN GROUNDWATER  
FORMER LEE GAS PLANT  
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	
MW-22	09/23/04	0.0067	<1.0	<1.0	<2.0	
MW-22	09/27/05	<0.47	<0.54	<0.48	<2.0	
MW-22	09/15/06	<b>0.011</b>	<0.54	<0.48	<1.1	
MW-22	09/20/07	0.00057	<0.00054	<0.00048	<0.0011	
MW-22	09/17/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-22	03/29/10	NS	NS	NS	NS	
MW-22	09/24/10	<b>0.0114</b>	<0.002	0.0033	<0.006	
MW-22	09/25/10	<b>0.0114</b>	<0.00043	0.0033	<0.0017	
MW-22	06/03/11	NS	NS	NS	NS	
MW-22	12/16/11	<0.001	<0.002	<0.002	<0.004	
MW-22	06/07/12	<0.005	<0.005	<0.005	<0.015	
MW-22	12/06/12	<0.001	<0.001	<0.001	<0.003	
MW-22	06/05/13	<0.001	<0.001	<0.001	<0.001	
MW-22	12/04/13	<0.001	<0.001	<0.001	<0.001	
MW-22	06/04/14	<0.001	<0.001	<0.001	<0.001	
MW-22	12/04/14	<0.001	0.027	<0.001	<0.003	
MW-22	06/04/15	<0.001	<0.001	<0.001	<0.003	
MW-22	12/15/15	<0.001	<0.001	<0.001	<0.003	
MW-22	06/22/16	<0.0010	<0.0010	<0.0010	<0.0030	
MW-22	12/20/16	<0.0010	<0.0010	<0.0010	<0.0010	
MW-22	06/20/17	<0.0010	<0.0010	<0.0010	<0.0010	
MW-22	12/19/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-22	06/26/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-22	12/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-22	06/18/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-22	12/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-22	06/26/20	0.000246 J	<0.0010	<0.0010	<0.0030	
MW-22	12/17/20	<0.00100	<0.00100	<0.00100	0.000177 J	
MW-23	06/04/14	Dry				
MW-23	12/05/14	Dry				
MW-23	06/04/15	Dry				
MW-23	12/15/15	Dry				
MW-23	06/21/16	Dry				
MW-23		Removed from sampling plan				
Trip Blank	06/04/14	<0.001	<0.001	<0.001	<0.001	
Trip Blank	12/04/14	<0.001	<0.001	<0.001	<0.001	
Trip Blank	06/04/15	<0.001	<0.001	<0.001	<0.003	
Trip Blank	12/15/15	<0.001	<0.001	<0.001	<0.003	
Trip Blank	06/22/16	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	12/20/16	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	06/20/17	<0.0010	<0.0010	<0.0010	<0.0010	
Trip Blank	12/19/17	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	06/25/18	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	12/11/18	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	06/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	12/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	06/26/20	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	12/18/20	<0.00100	<0.00100	<0.00100	<0.00300	

Notes:

**Bold red** values indicate an exceedance of the NMWQCC groundwater standards for the Site.

NMWQCC = New Mexico Water Quality Control Commission

LNAPL = Light Non-Aqueous Phase Liquid

B = A qualifier indicating an analyte was detected in both the sample and the associated Method Blank (MB)

J = A qualifier indicating an estimated value of a concentration above the laboratory's Method Detection Limit (MDL) but below the Reported Detection Limit (RDL).

NS = Not Sampled

NA = Not Analyzed

mg/L = milligrams per liter

## Appendix B

### Laboratory Analytical Report

Pace Analytical Job #: L1236138

Pace Analytical Job #: L1299286

Origins Laboratory Job #: Y001462



# ANALYTICAL REPORT

July 13, 2020

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## DCP Midstream - Tasman

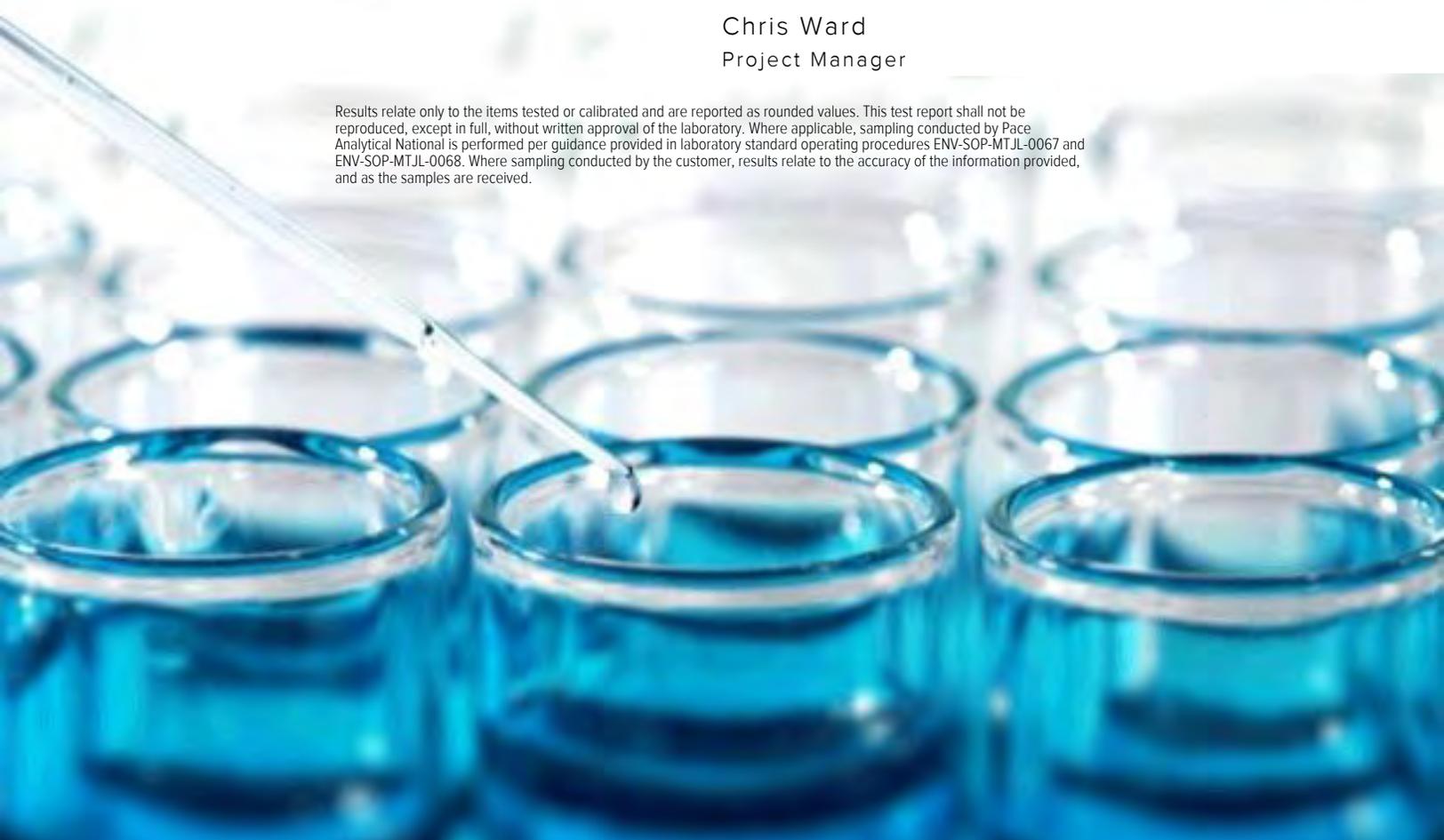
Sample Delivery Group: L1236138  
 Samples Received: 07/02/2020  
 Project Number:  
 Description: Former Lee Gas Plant

Report To: Kyle Norman  
 6899 Pecos St., Unit C  
 Denver, CO 80221

Entire Report Reviewed By:

Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	
<b>Cn: Case Narrative</b>	<b>5</b>	
<b>Sr: Sample Results</b>	<b>6</b>	
MW-7 L1236138-01	6	
MW-9 L1236138-02	7	
MW-10 L1236138-03	8	
MW-11 L1236138-04	9	
MW-12 L1236138-05	10	
MW-13 L1236138-06	11	
MW-14 L1236138-07	12	
MW-16 L1236138-08	13	
MW-17 L1236138-09	14	
MW-18 L1236138-10	15	
MW-19 L1236138-11	16	
MW-20 L1236138-12	17	
MW-21 L1236138-13	18	
MW-22 L1236138-14	19	
TRIP BLANK L1236138-16	20	
<b>Qc: Quality Control Summary</b>	<b>21</b>	
Volatile Organic Compounds (GC/MS) by Method 8260B	21	
<b>Gl: Glossary of Terms</b>	<b>25</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>26</b>	
<b>Sc: Sample Chain of Custody</b>	<b>27</b>	

MW-7 L1236138-01 GW

Collected by  
Becky Griffin

Collected date/time  
06/30/20 10:00

Received date/time  
07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 12:54	07/07/20 12:54	JCP	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

MW-9 L1236138-02 GW

Collected by  
Becky Griffin

Collected date/time  
06/30/20 14:00

Received date/time  
07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 13:13	07/07/20 13:13	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	20	07/09/20 01:07	07/09/20 01:07	ADM	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

MW-10 L1236138-03 GW

Collected by  
Becky Griffin

Collected date/time  
06/30/20 13:15

Received date/time  
07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	10	07/07/20 18:10	07/07/20 18:10	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	200	07/09/20 01:27	07/09/20 01:27	ADM	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

MW-11 L1236138-04 GW

Collected by  
Becky Griffin

Collected date/time  
06/26/20 14:00

Received date/time  
07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 13:33	07/07/20 13:33	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	1	07/08/20 21:06	07/08/20 21:06	ADM	Mt. Juliet, TN

MW-12 L1236138-05 GW

Collected by  
Becky Griffin

Collected date/time  
06/30/20 10:35

Received date/time  
07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 13:53	07/07/20 13:53	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1506646	25	07/09/20 19:37	07/09/20 19:37	BMB	Mt. Juliet, TN

MW-13 L1236138-06 GW

Collected by  
Becky Griffin

Collected date/time  
06/30/20 11:20

Received date/time  
07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 14:12	07/07/20 14:12	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	1	07/08/20 21:26	07/08/20 21:26	ADM	Mt. Juliet, TN

MW-14 L1236138-07 GW

Collected by  
Becky Griffin

Collected date/time  
06/29/20 10:05

Received date/time  
07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 14:32	07/07/20 14:32	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	1	07/08/20 21:46	07/08/20 21:46	ADM	Mt. Juliet, TN

MW-16 L1236138-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by: Becky Griffin Collected date/time: 06/29/20 14:00 Received date/time: 07/02/20 08:45						
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 14:52	07/07/20 14:52	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	1	07/08/20 22:06	07/08/20 22:06	ADM	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

MW-17 L1236138-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by: Becky Griffin Collected date/time: 06/29/20 13:40 Received date/time: 07/02/20 08:45						
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 15:12	07/07/20 15:12	JCP	Mt. Juliet, TN

MW-18 L1236138-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by: Becky Griffin Collected date/time: 06/29/20 12:20 Received date/time: 07/02/20 08:45						
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 15:31	07/07/20 15:31	JCP	Mt. Juliet, TN

MW-19 L1236138-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by: Becky Griffin Collected date/time: 06/29/20 11:05 Received date/time: 07/02/20 08:45						
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 15:52	07/07/20 15:52	JCP	Mt. Juliet, TN

MW-20 L1236138-12 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by: Becky Griffin Collected date/time: 06/29/20 11:30 Received date/time: 07/02/20 08:45						
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 16:12	07/07/20 16:12	JCP	Mt. Juliet, TN

MW-21 L1236138-13 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by: Becky Griffin Collected date/time: 06/30/20 09:15 Received date/time: 07/02/20 08:45						
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	10	07/07/20 18:30	07/07/20 18:30	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	200	07/09/20 02:07	07/09/20 02:07	ADM	Mt. Juliet, TN

MW-22 L1236138-14 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by: Becky Griffin Collected date/time: 06/26/20 12:15 Received date/time: 07/02/20 08:45						
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	1	07/07/20 16:31	07/07/20 16:31	JCP	Mt. Juliet, TN

TRIP BLANK L1236138-16 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by: Becky Griffin Collected date/time: 06/26/20 14:20 Received date/time: 07/02/20 08:45						
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1506763	1	07/09/20 22:03	07/09/20 22:03	JHH	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/30/20 10:00

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0347		0.0000941	0.00100	1	07/07/2020 12:54	<a href="#">WG1505024</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 12:54	<a href="#">WG1505024</a>
Ethylbenzene	0.000167	J	0.000137	0.00100	1	07/07/2020 12:54	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 12:54	<a href="#">WG1505024</a>
(S) Toluene-d8	108			80.0-120		07/07/2020 12:54	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	95.6			77.0-126		07/07/2020 12:54	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		07/07/2020 12:54	<a href="#">WG1505024</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/30/20 14:00

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	2.24		0.00188	0.0200	20	07/09/2020 01:07	<a href="#">WG1505699</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 13:13	<a href="#">WG1505024</a>
Ethylbenzene	0.0303		0.000137	0.00100	1	07/07/2020 13:13	<a href="#">WG1505024</a>
Total Xylenes	0.00196	J	0.000174	0.00300	1	07/07/2020 13:13	<a href="#">WG1505024</a>
(S) Toluene-d8	107			80.0-120		07/07/2020 13:13	<a href="#">WG1505024</a>
(S) Toluene-d8	99.2			80.0-120		07/09/2020 01:07	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		07/07/2020 13:13	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	91.1			77.0-126		07/09/2020 01:07	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/07/2020 13:13	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		07/09/2020 01:07	<a href="#">WG1505699</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/30/20 13:15

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	26.4		0.0188	0.200	200	07/09/2020 01:27	<a href="#">WG1505699</a>
Toluene	U		0.00278	0.0100	10	07/07/2020 18:10	<a href="#">WG1505024</a>
Ethylbenzene	1.06		0.00137	0.0100	10	07/07/2020 18:10	<a href="#">WG1505024</a>
Total Xylenes	0.00506	J	0.00174	0.0300	10	07/07/2020 18:10	<a href="#">WG1505024</a>
(S) Toluene-d8	95.3			80.0-120		07/07/2020 18:10	<a href="#">WG1505024</a>
(S) Toluene-d8	95.6			80.0-120		07/09/2020 01:27	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	93.4			77.0-126		07/07/2020 18:10	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	89.3			77.0-126		07/09/2020 01:27	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/07/2020 18:10	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	126			70.0-130		07/09/2020 01:27	<a href="#">WG1505699</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/26/20 14:00

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/08/2020 21:06	<a href="#">WG1505699</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 13:33	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 13:33	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 13:33	<a href="#">WG1505024</a>
(S) Toluene-d8	108			80.0-120		07/07/2020 13:33	<a href="#">WG1505024</a>
(S) Toluene-d8	96.5			80.0-120		07/08/2020 21:06	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	96.8			77.0-126		07/07/2020 13:33	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	88.9			77.0-126		07/08/2020 21:06	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/07/2020 13:33	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	123			70.0-130		07/08/2020 21:06	<a href="#">WG1505699</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/30/20 10:35

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.781		0.00235	0.0250	25	07/09/2020 19:37	<a href="#">WG1506646</a>
Toluene	0.000825	J	0.000278	0.00100	1	07/07/2020 13:53	<a href="#">WG1505024</a>
Ethylbenzene	0.0519		0.000137	0.00100	1	07/07/2020 13:53	<a href="#">WG1505024</a>
Total Xylenes	0.00220	J	0.000174	0.00300	1	07/07/2020 13:53	<a href="#">WG1505024</a>
(S) Toluene-d8	107			80.0-120		07/07/2020 13:53	<a href="#">WG1505024</a>
(S) Toluene-d8	108			80.0-120		07/09/2020 19:37	<a href="#">WG1506646</a>
(S) 4-Bromofluorobenzene	93.7			77.0-126		07/07/2020 13:53	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/09/2020 19:37	<a href="#">WG1506646</a>
(S) 1,2-Dichloroethane-d4	99.0			70.0-130		07/07/2020 13:53	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	127			70.0-130		07/09/2020 19:37	<a href="#">WG1506646</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/30/20 11:20

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
Benzene	0.000122	J	0.0000941	0.00100	1	07/08/2020 21:26	<a href="#">WG1505699</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 14:12	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 14:12	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 14:12	<a href="#">WG1505024</a>
(S) Toluene-d8	112			80.0-120		07/07/2020 14:12	<a href="#">WG1505024</a>
(S) Toluene-d8	95.6			80.0-120		07/08/2020 21:26	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	97.4			77.0-126		07/07/2020 14:12	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	84.6			77.0-126		07/08/2020 21:26	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/07/2020 14:12	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	128			70.0-130		07/08/2020 21:26	<a href="#">WG1505699</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/29/20 10:05

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	0.00111		0.0000941	0.00100	1	07/08/2020 21:46	<a href="#">WG1505699</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 14:32	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 14:32	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 14:32	<a href="#">WG1505024</a>
(S) Toluene-d8	110			80.0-120		07/07/2020 14:32	<a href="#">WG1505024</a>
(S) Toluene-d8	96.3			80.0-120		07/08/2020 21:46	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	99.9			77.0-126		07/07/2020 14:32	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	88.3			77.0-126		07/08/2020 21:46	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/07/2020 14:32	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	127			70.0-130		07/08/2020 21:46	<a href="#">WG1505699</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/29/20 14:00

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	0.000443	J	0.0000941	0.00100	1	07/08/2020 22:06	<a href="#">WG1505699</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 14:52	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 14:52	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 14:52	<a href="#">WG1505024</a>
(S) Toluene-d8	113			80.0-120		07/07/2020 14:52	<a href="#">WG1505024</a>
(S) Toluene-d8	94.6			80.0-120		07/08/2020 22:06	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	98.1			77.0-126		07/07/2020 14:52	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	86.6			77.0-126		07/08/2020 22:06	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/07/2020 14:52	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	125			70.0-130		07/08/2020 22:06	<a href="#">WG1505699</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/29/20 13:40

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000378	J	0.0000941	0.00100	1	07/07/2020 15:12	<a href="#">WG1505024</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 15:12	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 15:12	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 15:12	<a href="#">WG1505024</a>
(S) Toluene-d8	109			80.0-120		07/07/2020 15:12	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	95.8			77.0-126		07/07/2020 15:12	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		07/07/2020 15:12	<a href="#">WG1505024</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/29/20 12:20

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000305	J	0.0000941	0.00100	1	07/07/2020 15:31	<a href="#">WG1505024</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 15:31	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 15:31	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 15:31	<a href="#">WG1505024</a>
(S) Toluene-d8	103			80.0-120		07/07/2020 15:31	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/07/2020 15:31	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/07/2020 15:31	<a href="#">WG1505024</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/29/20 11:05

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000244	J	0.0000941	0.00100	1	07/07/2020 15:52	<a href="#">WG1505024</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 15:52	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 15:52	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 15:52	<a href="#">WG1505024</a>
(S) Toluene-d8	106			80.0-120		07/07/2020 15:52	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/07/2020 15:52	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/07/2020 15:52	<a href="#">WG1505024</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/29/20 11:30

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000212	J	0.0000941	0.00100	1	07/07/2020 16:12	<a href="#">WG1505024</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 16:12	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 16:12	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 16:12	<a href="#">WG1505024</a>
(S) Toluene-d8	105			80.0-120		07/07/2020 16:12	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/07/2020 16:12	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		07/07/2020 16:12	<a href="#">WG1505024</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/30/20 09:15

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	17.0		0.0188	0.200	200	07/09/2020 02:07	<a href="#">WG1505699</a>
Toluene	U		0.00278	0.0100	10	07/07/2020 18:30	<a href="#">WG1505024</a>
Ethylbenzene	1.80		0.00137	0.0100	10	07/07/2020 18:30	<a href="#">WG1505024</a>
Total Xylenes	0.155		0.00174	0.0300	10	07/07/2020 18:30	<a href="#">WG1505024</a>
(S) Toluene-d8	91.9			80.0-120		07/07/2020 18:30	<a href="#">WG1505024</a>
(S) Toluene-d8	96.3			80.0-120		07/09/2020 02:07	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	88.9			77.0-126		07/07/2020 18:30	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	86.4			77.0-126		07/09/2020 02:07	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/07/2020 18:30	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	119			70.0-130		07/09/2020 02:07	<a href="#">WG1505699</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/26/20 12:15

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000246	J	0.0000941	0.00100	1	07/07/2020 16:31	<a href="#">WG1505024</a>
Toluene	U		0.000278	0.00100	1	07/07/2020 16:31	<a href="#">WG1505024</a>
Ethylbenzene	U		0.000137	0.00100	1	07/07/2020 16:31	<a href="#">WG1505024</a>
Total Xylenes	U		0.000174	0.00300	1	07/07/2020 16:31	<a href="#">WG1505024</a>
(S) Toluene-d8	106			80.0-120		07/07/2020 16:31	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/07/2020 16:31	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/07/2020 16:31	<a href="#">WG1505024</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/26/20 14:20

L1236138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	07/09/2020 22:03	<a href="#">WG1506763</a>
Toluene	U		0.000278	0.00100	1	07/09/2020 22:03	<a href="#">WG1506763</a>
Ethylbenzene	U		0.000137	0.00100	1	07/09/2020 22:03	<a href="#">WG1506763</a>
Total Xylenes	U		0.000174	0.00300	1	07/09/2020 22:03	<a href="#">WG1506763</a>
(S) Toluene-d8	92.8			80.0-120		07/09/2020 22:03	<a href="#">WG1506763</a>
(S) 4-Bromofluorobenzene	97.9			77.0-126		07/09/2020 22:03	<a href="#">WG1506763</a>
(S) 1,2-Dichloroethane-d4	153	J1		70.0-130		07/09/2020 22:03	<a href="#">WG1506763</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1236138-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3547224-2 07/07/20 11:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	98.8			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3547224-1 07/07/20 10:31

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00608	122	70.0-123	
Ethylbenzene	0.00500	0.00526	105	79.0-123	
Toluene	0.00500	0.00570	114	79.0-120	
Xylenes, Total	0.0150	0.0158	105	79.0-123	
(S) Toluene-d8			107	80.0-120	
(S) 4-Bromofluorobenzene			99.8	77.0-126	
(S) 1,2-Dichloroethane-d4			106	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1236138-02,03,04,06,07,08,13](#)

Method Blank (MB)

(MB) R3547890-2 07/08/20 20:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	97.4			80.0-120
(S) 4-Bromofluorobenzene	88.1			77.0-126
(S) 1,2-Dichloroethane-d4	123			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3547890-1 07/08/20 19:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00479	95.8	70.0-123	
(S) Toluene-d8			99.6	80.0-120	
(S) 4-Bromofluorobenzene			90.3	77.0-126	
(S) 1,2-Dichloroethane-d4			125	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1236138-05](#)

Method Blank (MB)

(MB) R3548126-2 07/09/20 13:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	130			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3548126-1 07/09/20 11:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00492	98.4	70.0-123	
(S) Toluene-d8			102	80.0-120	
(S) 4-Bromofluorobenzene			101	77.0-126	
(S) 1,2-Dichloroethane-d4			128	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1236138-16](#)

Method Blank (MB)

(MB) R3548350-2 07/09/20 19:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	99.3			80.0-120
(S) 4-Bromofluorobenzene	92.5			77.0-126
(S) 1,2-Dichloroethane-d4	124			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3548350-1 07/09/20 19:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00512	102	70.0-123	
Ethylbenzene	0.00500	0.00453	90.6	79.0-123	
Toluene	0.00500	0.00450	90.0	79.0-120	
Xylenes, Total	0.0150	0.0131	87.3	79.0-123	
(S) Toluene-d8			94.7	80.0-120	
(S) 4-Bromofluorobenzene			87.9	77.0-126	
(S) 1,2-Dichloroethane-d4			115	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.  
\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

### State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

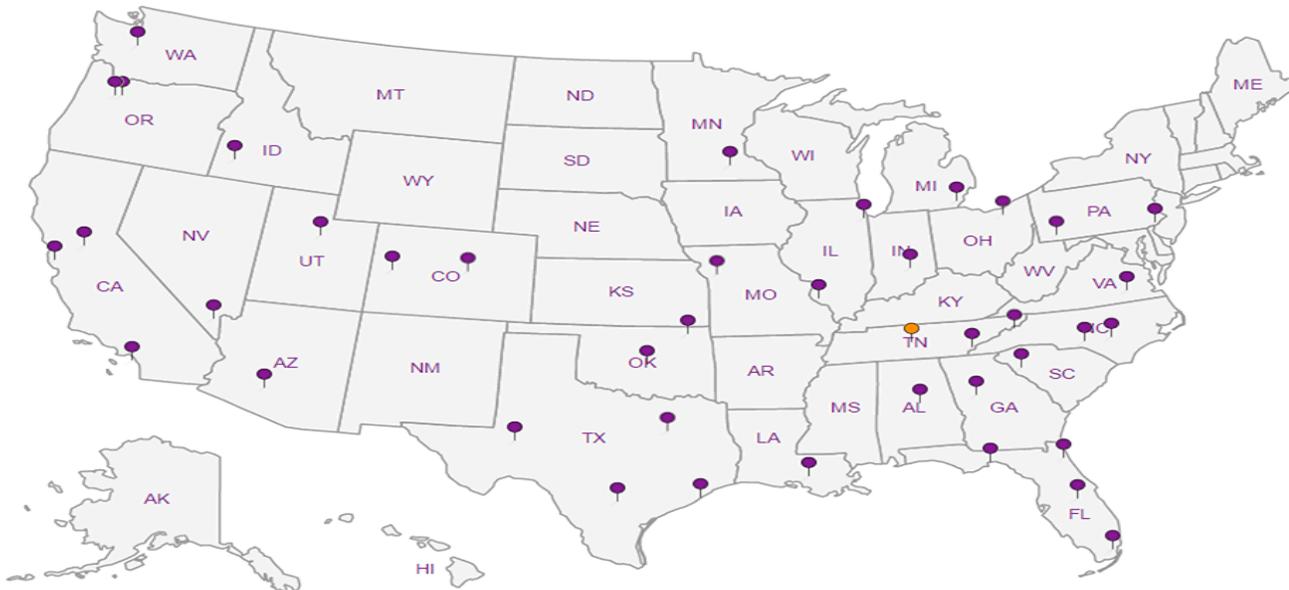
### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

### Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



**DCP Midstream - Tasman**

6899 Pecos St., Unit C  
Denver, CO 80221

Billing Information:  
Steve Weathers  
370 17th St, Ste 2500  
Denver, CO 80202

Pres  
Chk

Report to:  
Kyle Norman

Email To: knorman@tasman-geo.com

Project Description:  
Former Lee Gas Plant

City/State  
Collected:

Please Circle:  
PT MT CT ET

Phone: 575-318-5017

Client Project #

Lab Project #  
DCPTASMAN-LEEGAS

Collected by (print):  
Becky Ziffen

Site/Facility ID #

P.O. #

Collected by (signature):  
Becky Ziffen

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day  
Next Day 5 Day (Rad Only)  
Two Day 10 Day (Rad Only)  
Three Day

Date Results Needed

No.  
of  
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
-----------	-----------	----------	-------	------	------	-------------

MW-5		GW				3	X												
MW-6		GW				3	X												
MW-7		GW		6-30-20	1000	3	X												-01
MW-8		GW				3	X												
MW-9		GW		6-30-20	1400	3	X												02
MW-10		GW		6-30-20	1315	3	X												03
MW-11		GW		6-26-20	1400	3	X												04
MW-12		GW		6-30-20	1035	3	X												05
MW-13		GW		6-30-20	1120	3	X												06
MW-14		GW		6-29-20	1005	3	X												07

V82608TEX 40ml/Amb-HCI

Analysis / Container / Preservative



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



SDG # L1236138  
Table E143  
Acctnum: DCPTASMAN  
Template: T168947  
Prelogin: P778875  
PM: 824 - Chris Ward  
PB: 6/4/20 nm  
Shipped Via: FedEX Ground

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist	
COC Seal Present/Intact:	<input type="checkbox"/> NP <input type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero HeadSpace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Samples returned via:  
 UPS  FedEx  Courier

Tracking # 1790 3034 3386

Relinquished by: (Signature) <i>Becky Ziffen</i>	Date: <u>7-1-20</u>	Time: <u>1100</u>	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes / No HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>12.2 = 10</u> °C Bottles Received: <u>48</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Kelly Barnes</i>	Date: <u>7-2-20</u> Time: <u>0845</u>

If preservation required by Login: Date/Time

Hold: \_\_\_\_\_ Condition: NCF / OK

**DCP Midstream - Tasman**

Billing Information:

Steve Weathers  
370 17th St, Ste 2500  
Denver, CO 80202

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



SDG # **L1236138**

Table #

Acctnum: **DCPTASMAN**

Template: **T168947**

Prelogin: **P778875**

PM: **824 - Chris Ward**

PB: **6/4/20 mb**

Shipped Via **FedEX Ground**

Remarks | Sample # (lab only)

6899 Pecos St., Unit C  
Denver, CO 80221

Report to:  
**Kyle Norman**

Email To: **knorman@tasman-geo.com**

Project Description:  
**Former Lee Gas Plant**

City/State  
Collected:

Please Circle:  
PT MT CT ET

Phone: **575-318-5017**

Client Project #

Lab Project #  
**DCPTASMAN-LEEGAS**

Collected by (print):  
**BECKY GRIFFIN**

Site/Facility ID #

P.O. #

Collected by (signature):  
*Becky Griffin*

**Rush?** (Lab MUST Be Notified)

Quote #

- Same Day  Five Day
- Next Day  5 Day (Rad Only)
- Two Day  10 Day (Rad Only)
- Three Day

Date Results Needed

No.  
of  
Cnts

Immediately  
Packed on Ice N  Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
MW-15		GW				3	X											
MW-16		GW		6-29-20	1400	3	X											-08
MW-17		GW		6-29-20	1340	3	X											09
MW-18		GW		6-29-20	1220	3	X											10
MW-19		GW		6-29-20	1105	3	X											11
MW-20		GW		6-29-20	1130	3	X											12
MW-21		GW		6-30-20	0915	3	X											13
MW-22		GW		6-26-20	1215	3	X											14
TRIP BLANK		GW		6-30-20	1420	3	X											15
		GW				3	X											

V8260BTEX 40ml/Amb-HCl

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist	
COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
If Applicable	
VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **1790 3034 3386**

Relinquished by: (Signature)  
*Becky Griffin*

Date: **7-2-20** Time: **1100**

Relinquished by: (Signature)  
*Becky Griffin*

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: (Signature)  
\_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)  
\_\_\_\_\_

Received by: (Signature)  
\_\_\_\_\_

Received for lab by: (Signature)  
*Billy Banas*

Trip Blank Received:  No  
HCL / MeOH  
TBR

Temp: **12.2 = 1.0** °C Bottles Received: **48**

Date: **7-2-20** Time: **0845**

If preservation required by Login: Date/Time

Hold: \_\_\_\_\_ Condition: **NCF / OK**



# ANALYTICAL REPORT

July 13, 2020

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## DCP Midstream - Tasman

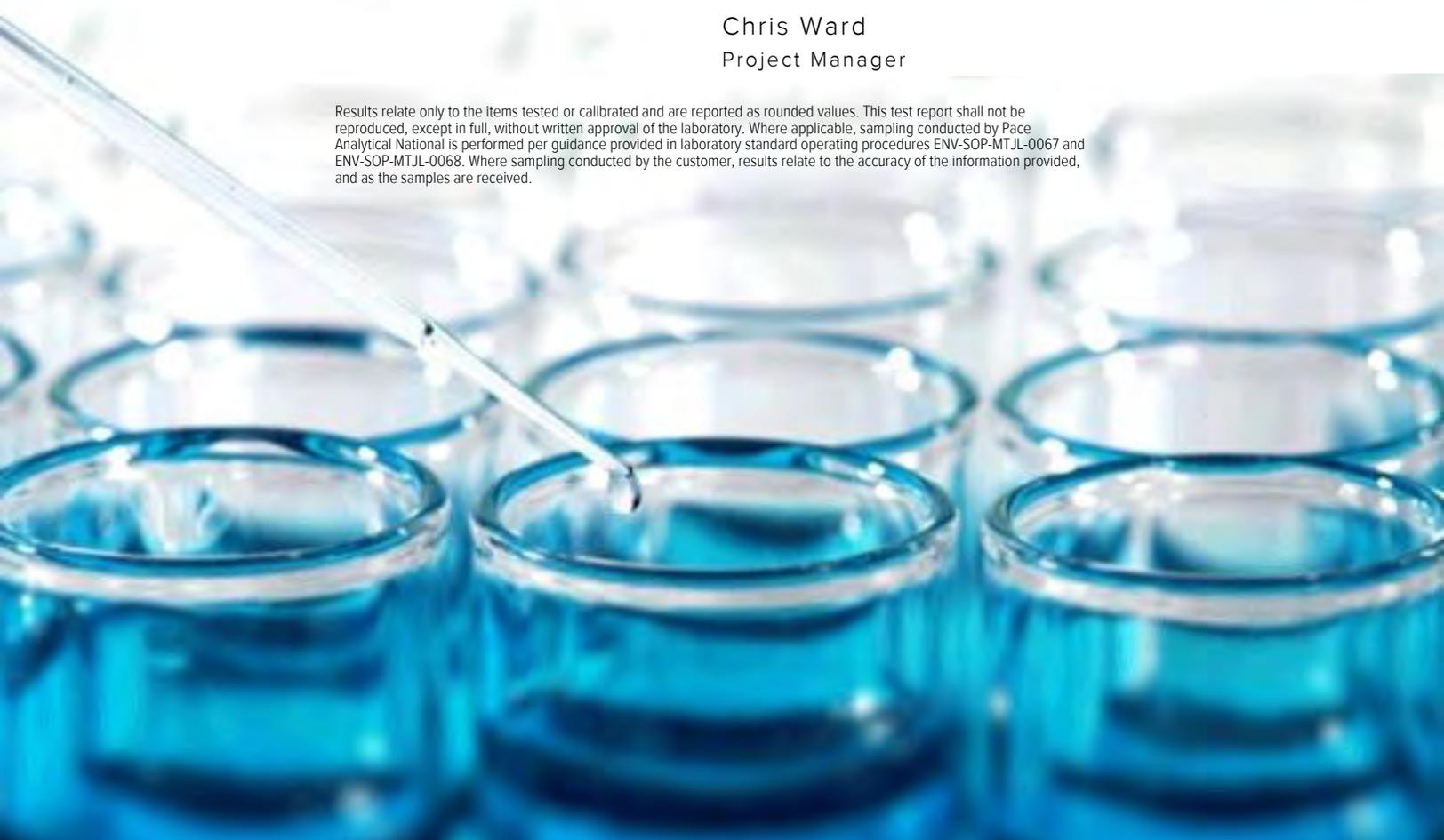
Sample Delivery Group: L1236140  
 Samples Received: 07/02/2020  
 Project Number:  
 Description: Former Lee Gas Plant

Report To: Kyle Norman  
 6899 Pecos St., Unit C  
 Denver, CO 80221

Entire Report Reviewed By:

Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	
<b>DUPLICATE B L1236140-01</b>	<b>5</b>	
<b>DUPLICATE A L1236140-02</b>	<b>6</b>	
<b>Qc: Quality Control Summary</b>	<b>7</b>	
<b>Volatile Organic Compounds (GC/MS) by Method 8260B</b>	<b>7</b>	
<b>Gl: Glossary of Terms</b>	<b>10</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>11</b>	
<b>Sc: Sample Chain of Custody</b>	<b>12</b>	
		

DUPLICATE B L1236140-01 GW

Collected by: Becky Griffin  
 Collected date/time: 06/30/20 00:00  
 Received date/time: 07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505024	10	07/07/20 18:50	07/07/20 18:50	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	200	07/09/20 02:27	07/09/20 02:27	ADM	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

DUPLICATE A L1236140-02 GW

Collected by: Becky Griffin  
 Collected date/time: 06/30/20 00:00  
 Received date/time: 07/02/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1505699	25	07/09/20 02:47	07/09/20 02:47	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1506646	25	07/09/20 20:00	07/09/20 20:00	BMB	Mt. Juliet, TN

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward  
Project Manager

Sample Delivery Group (SDG) Narrative

---

VOC pH outside of method requirement.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1236140-02</a>	<a href="#">DUPLICATE A</a>	8260B

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/30/20 00:00

L1236140

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	26.8		0.0188	0.200	200	07/09/2020 02:27	<a href="#">WG1505699</a>
Toluene	U		0.00278	0.0100	10	07/07/2020 18:50	<a href="#">WG1505024</a>
Ethylbenzene	1.19		0.00137	0.0100	10	07/07/2020 18:50	<a href="#">WG1505024</a>
Total Xylenes	0.00513	J	0.00174	0.0300	10	07/07/2020 18:50	<a href="#">WG1505024</a>
(S) Toluene-d8	95.1			80.0-120		07/07/2020 18:50	<a href="#">WG1505024</a>
(S) Toluene-d8	96.4			80.0-120		07/09/2020 02:27	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	94.1			77.0-126		07/07/2020 18:50	<a href="#">WG1505024</a>
(S) 4-Bromofluorobenzene	85.3			77.0-126		07/09/2020 02:27	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		07/07/2020 18:50	<a href="#">WG1505024</a>
(S) 1,2-Dichloroethane-d4	123			70.0-130		07/09/2020 02:27	<a href="#">WG1505699</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/30/20 00:00

L1236140

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.791		0.00235	0.0250	25	07/09/2020 20:00	<a href="#">WG1506646</a>
Toluene	U		0.00695	0.0250	25	07/09/2020 02:47	<a href="#">WG1505699</a>
Ethylbenzene	1.84		0.00343	0.0250	25	07/09/2020 02:47	<a href="#">WG1505699</a>
Total Xylenes	0.130		0.00435	0.0750	25	07/09/2020 02:47	<a href="#">WG1505699</a>
(S) Toluene-d8	84.9			80.0-120		07/09/2020 02:47	<a href="#">WG1505699</a>
(S) Toluene-d8	109			80.0-120		07/09/2020 20:00	<a href="#">WG1506646</a>
(S) 4-Bromofluorobenzene	80.7			77.0-126		07/09/2020 02:47	<a href="#">WG1505699</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/09/2020 20:00	<a href="#">WG1506646</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		07/09/2020 02:47	<a href="#">WG1505699</a>
(S) 1,2-Dichloroethane-d4	126			70.0-130		07/09/2020 20:00	<a href="#">WG1506646</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1236140-01](#)

Method Blank (MB)

(MB) R3547224-2 07/07/20 11:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	98.8			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3547224-1 07/07/20 10:31

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Ethylbenzene	0.00500	0.00526	105	79.0-123	
Toluene	0.00500	0.00570	114	79.0-120	
Xylenes, Total	0.0150	0.0158	105	79.0-123	
(S) Toluene-d8			107	80.0-120	
(S) 4-Bromofluorobenzene			99.8	77.0-126	
(S) 1,2-Dichloroethane-d4			106	70.0-130	

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1236140-01,02](#)

Method Blank (MB)

(MB) R3547890-2 07/08/20 20:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	97.4			80.0-120
(S) 4-Bromofluorobenzene	88.1			77.0-126
(S) 1,2-Dichloroethane-d4	123			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3547890-1 07/08/20 19:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00479	95.8	70.0-123	
Ethylbenzene	0.00500	0.00437	87.4	79.0-123	
Toluene	0.00500	0.00424	84.8	79.0-120	
Xylenes, Total	0.0150	0.0129	86.0	79.0-123	
(S) Toluene-d8			99.6	80.0-120	
(S) 4-Bromofluorobenzene			90.3	77.0-126	
(S) 1,2-Dichloroethane-d4			125	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1236140-02](#)

Method Blank (MB)

(MB) R3548126-2 07/09/20 13:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	130			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3548126-1 07/09/20 11:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00492	98.4	70.0-123	
(S) Toluene-d8			102	80.0-120	
(S) 4-Bromofluorobenzene			101	77.0-126	
(S) 1,2-Dichloroethane-d4			128	70.0-130	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.  
\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

### State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

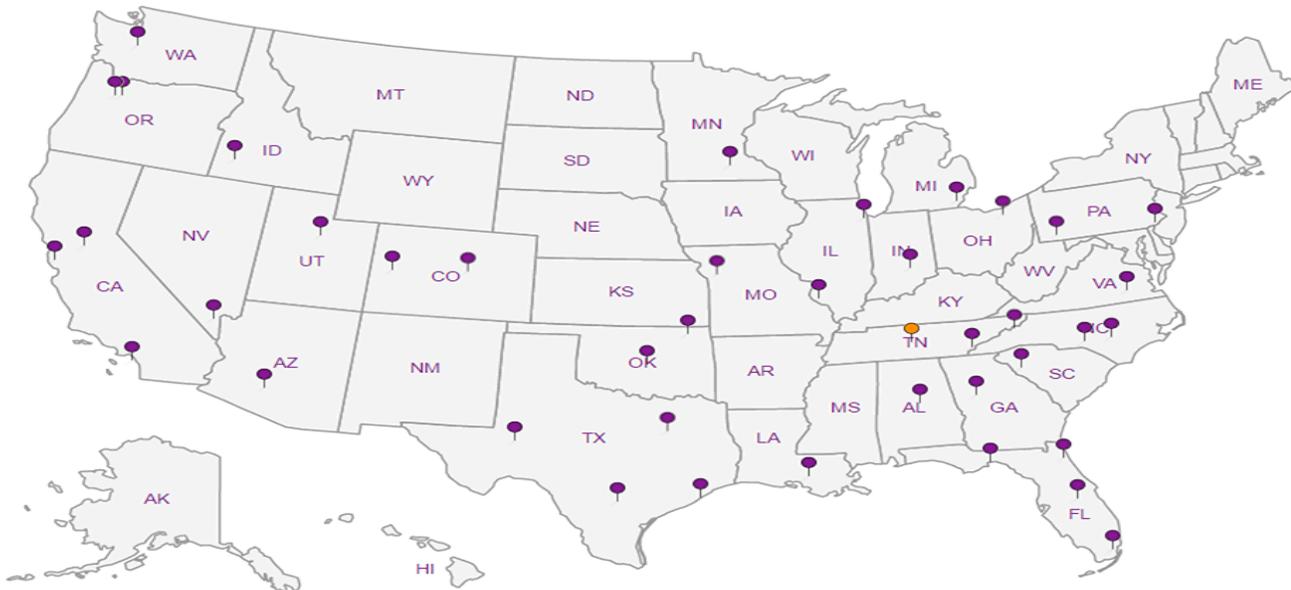
### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

### Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





# ANALYTICAL REPORT

January 05, 2021

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## DCP Midstream - Tasman

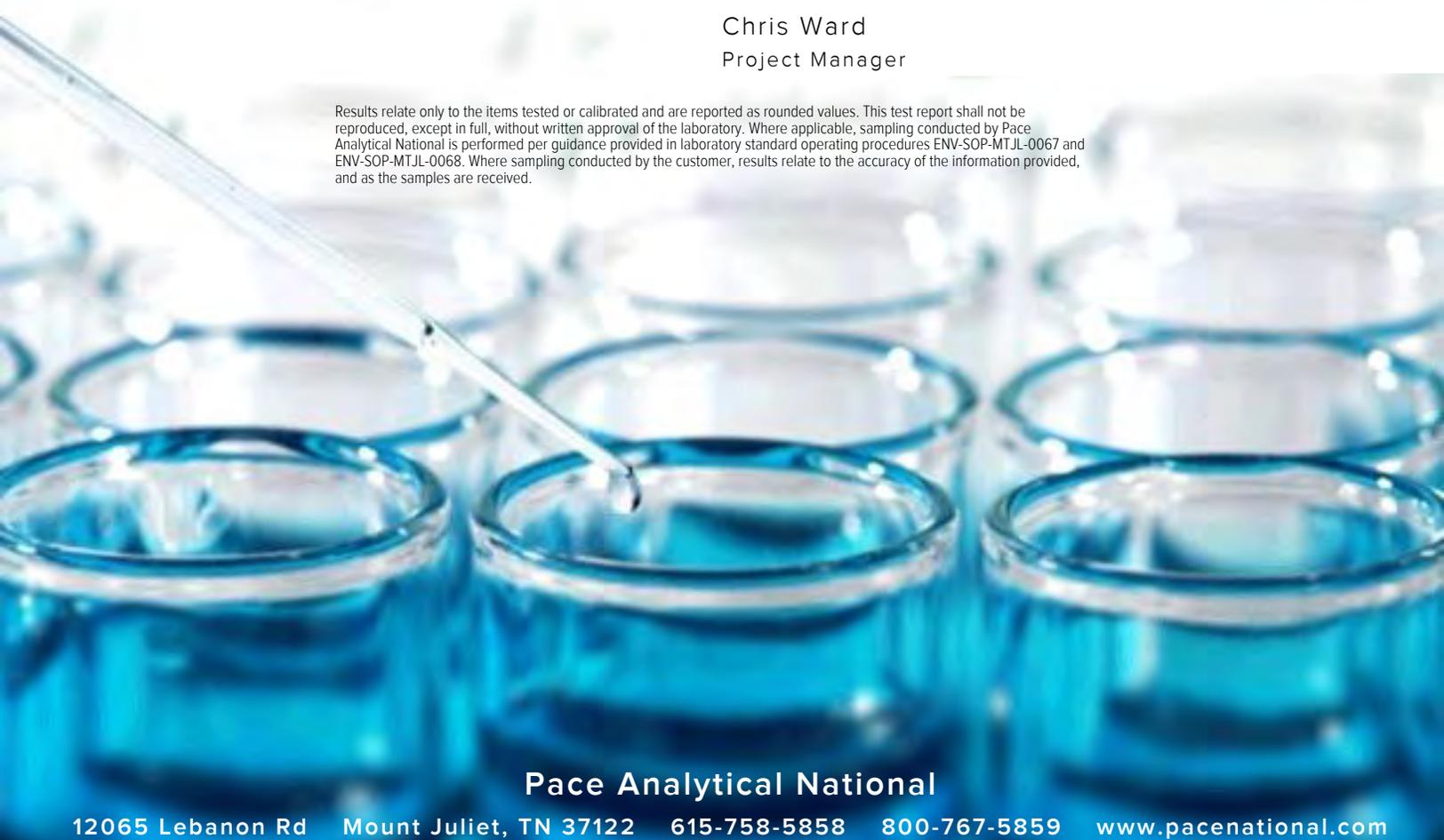
Sample Delivery Group: L1299286  
 Samples Received: 12/19/2020  
 Project Number:  
 Description: Former Lee Gas Plant

Report To: Kyle Norman  
 6899 Pecos St., Unit C  
 Denver, CO 80221

Entire Report Reviewed By:

Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>5</b>	
<b>Sr: Sample Results</b>	<b>6</b>	<b>3</b> Ss
MW-7 L1299286-01	6	
MW-10 L1299286-02	7	<b>4</b> Cn
MW-11 L1299286-03	8	<b>5</b> Sr
MW-12 L1299286-04	9	
MW-13 L1299286-05	10	<b>6</b> Qc
MW-14 L1299286-06	11	
MW-16 L1299286-07	12	<b>7</b> Gl
MW-17 L1299286-08	13	<b>8</b> Al
MW-18 L1299286-09	14	
MW-19 L1299286-10	15	
MW-20 L1299286-11	16	<b>9</b> Sc
MW-21 L1299286-12	17	
MW-22 L1299286-13	18	
TRIP BLANK L1299286-14	19	
DUPLICATE-A L1299286-15	20	
DUPLICATE-B L1299286-16	21	
<b>Qc: Quality Control Summary</b>	<b>22</b>	
Volatile Organic Compounds (GC/MS) by Method 8260B	22	
<b>Gl: Glossary of Terms</b>	<b>24</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>25</b>	
<b>Sc: Sample Chain of Custody</b>	<b>26</b>	

# SAMPLE SUMMARY

## MW-7 L1299286-01 GW

Collected by  
Becky Griffin

Collected date/time  
12/17/20 11:00

Received date/time  
12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 09:54	12/24/20 09:54	ACG	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## MW-10 L1299286-02 GW

Collected by  
Becky Griffin

Collected date/time  
12/17/20 11:40

Received date/time  
12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	100	12/24/20 14:32	12/24/20 14:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1599354	1000	12/31/20 10:19	12/31/20 10:19	ACG	Mt. Juliet, TN

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

## MW-11 L1299286-03 GW

Collected by  
Becky Griffin

Collected date/time  
12/16/20 11:05

Received date/time  
12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 10:15	12/24/20 10:15	ACG	Mt. Juliet, TN

<sup>7</sup> Gl

<sup>8</sup> Al

## MW-12 L1299286-04 GW

Collected by  
Becky Griffin

Collected date/time  
12/18/20 08:20

Received date/time  
12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	10	12/24/20 14:53	12/24/20 14:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1599354	200	12/31/20 10:40	12/31/20 10:40	ACG	Mt. Juliet, TN

<sup>9</sup> Sc

## MW-13 L1299286-05 GW

Collected by  
Becky Griffin

Collected date/time  
12/17/20 13:15

Received date/time  
12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 10:35	12/24/20 10:35	ACG	Mt. Juliet, TN

## MW-14 L1299286-06 GW

Collected by  
Becky Griffin

Collected date/time  
12/16/20 10:15

Received date/time  
12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 10:56	12/24/20 10:56	ACG	Mt. Juliet, TN

## MW-16 L1299286-07 GW

Collected by  
Becky Griffin

Collected date/time  
12/18/20 09:25

Received date/time  
12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 11:16	12/24/20 11:16	ACG	Mt. Juliet, TN

## MW-17 L1299286-08 GW

Collected by  
Becky Griffin

Collected date/time  
12/16/20 12:30

Received date/time  
12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 11:37	12/24/20 11:37	ACG	Mt. Juliet, TN

MW-18 L1299286-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Becky Griffin				12/16/20 12:30	12/19/20 10:45	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 11:58	12/24/20 11:58	ACG	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

MW-19 L1299286-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Becky Griffin				12/17/20 09:20	12/19/20 10:45	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 12:23	12/24/20 12:23	ACG	Mt. Juliet, TN

MW-20 L1299286-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Becky Griffin				12/17/20 08:10	12/19/20 10:45	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 12:48	12/24/20 12:48	ACG	Mt. Juliet, TN

MW-21 L1299286-12 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Becky Griffin				12/17/20 10:35	12/19/20 10:45	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	100	12/24/20 15:13	12/24/20 15:13	ACG	Mt. Juliet, TN

MW-22 L1299286-13 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Becky Griffin				12/17/20 10:10	12/19/20 10:45	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 13:09	12/24/20 13:09	ACG	Mt. Juliet, TN

TRIP BLANK L1299286-14 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Becky Griffin				12/18/20 14:30	12/19/20 10:45	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	1	12/24/20 09:12	12/24/20 09:12	ACG	Mt. Juliet, TN

DUPLICATE-A L1299286-15 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Becky Griffin				12/17/20 00:00	12/19/20 10:45	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	25	12/24/20 15:33	12/24/20 15:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1599354	500	12/31/20 11:00	12/31/20 11:00	ACG	Mt. Juliet, TN

DUPLICATE-B L1299286-16 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Becky Griffin				12/17/20 00:00	12/19/20 10:45	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597138	200	12/24/20 15:53	12/24/20 15:53	ACG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

Collected date/time: 12/17/20 11:00

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	12/24/2020 09:54	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 09:54	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 09:54	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 09:54	<a href="#">WG1597138</a>
(S) Toluene-d8	108			80.0-120		12/24/2020 09:54	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/24/2020 09:54	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		12/24/2020 09:54	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/17/20 11:40

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	21.7		0.0941	1.00	1000	12/31/2020 10:19	<a href="#">WG1599354</a>
Toluene	U		0.278	1.00	1000	12/31/2020 10:19	<a href="#">WG1599354</a>
Ethylbenzene	0.852		0.0137	0.100	100	12/24/2020 14:32	<a href="#">WG1597138</a>
Total Xylenes	0.0282	J	0.0174	0.300	100	12/24/2020 14:32	<a href="#">WG1597138</a>
(S) Toluene-d8	106			80.0-120		12/24/2020 14:32	<a href="#">WG1597138</a>
(S) Toluene-d8	104			80.0-120		12/31/2020 10:19	<a href="#">WG1599354</a>
(S) 4-Bromofluorobenzene	93.8			77.0-126		12/24/2020 14:32	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		12/31/2020 10:19	<a href="#">WG1599354</a>
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		12/24/2020 14:32	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	98.7			70.0-130		12/31/2020 10:19	<a href="#">WG1599354</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/16/20 11:05

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	12/24/2020 10:15	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 10:15	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 10:15	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 10:15	<a href="#">WG1597138</a>
(S) Toluene-d8	104			80.0-120		12/24/2020 10:15	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/24/2020 10:15	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		12/24/2020 10:15	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/18/20 08:20

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	2.79		0.0188	0.200	200	12/31/2020 10:40	<a href="#">WG1599354</a>
Toluene	U		0.00278	0.0100	10	12/24/2020 14:53	<a href="#">WG1597138</a>
Ethylbenzene	U		0.00137	0.0100	10	12/24/2020 14:53	<a href="#">WG1597138</a>
Total Xylenes	U		0.00174	0.0300	10	12/24/2020 14:53	<a href="#">WG1597138</a>
(S) Toluene-d8	106			80.0-120		12/24/2020 14:53	<a href="#">WG1597138</a>
(S) Toluene-d8	106			80.0-120		12/31/2020 10:40	<a href="#">WG1599354</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/24/2020 14:53	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	99.8			77.0-126		12/31/2020 10:40	<a href="#">WG1599354</a>
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		12/24/2020 14:53	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		12/31/2020 10:40	<a href="#">WG1599354</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/17/20 13:15

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0107		0.0000941	0.00100	1	12/24/2020 10:35	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 10:35	<a href="#">WG1597138</a>
Ethylbenzene	0.000283	J	0.000137	0.00100	1	12/24/2020 10:35	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 10:35	<a href="#">WG1597138</a>
(S) Toluene-d8	105			80.0-120		12/24/2020 10:35	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/24/2020 10:35	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		12/24/2020 10:35	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/16/20 10:15

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0000983	J	0.0000941	0.00100	1	12/24/2020 10:56	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 10:56	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 10:56	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 10:56	<a href="#">WG1597138</a>
(S) Toluene-d8	104			80.0-120		12/24/2020 10:56	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/24/2020 10:56	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		12/24/2020 10:56	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/18/20 09:25

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00769		0.0000941	0.00100	1	12/24/2020 11:16	<a href="#">WG1597138</a>
Toluene	0.000450	J	0.000278	0.00100	1	12/24/2020 11:16	<a href="#">WG1597138</a>
Ethylbenzene	0.000201	J	0.000137	0.00100	1	12/24/2020 11:16	<a href="#">WG1597138</a>
Total Xylenes	0.000340	J	0.000174	0.00300	1	12/24/2020 11:16	<a href="#">WG1597138</a>
(S) Toluene-d8	108			80.0-120		12/24/2020 11:16	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	103			77.0-126		12/24/2020 11:16	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		12/24/2020 11:16	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/16/20 12:30

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000103	J	0.0000941	0.00100	1	12/24/2020 11:37	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 11:37	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 11:37	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 11:37	<a href="#">WG1597138</a>
(S) Toluene-d8	108			80.0-120		12/24/2020 11:37	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	101			77.0-126		12/24/2020 11:37	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		12/24/2020 11:37	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/16/20 12:30

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	12/24/2020 11:58	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 11:58	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 11:58	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 11:58	<a href="#">WG1597138</a>
(S) Toluene-d8	104			80.0-120		12/24/2020 11:58	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	104			77.0-126		12/24/2020 11:58	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		12/24/2020 11:58	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/17/20 09:20

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	12/24/2020 12:23	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 12:23	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 12:23	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 12:23	<a href="#">WG1597138</a>
(S) Toluene-d8	108			80.0-120		12/24/2020 12:23	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/24/2020 12:23	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		12/24/2020 12:23	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/17/20 08:10

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	12/24/2020 12:48	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 12:48	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 12:48	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 12:48	<a href="#">WG1597138</a>
(S) Toluene-d8	104			80.0-120		12/24/2020 12:48	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	99.7			77.0-126		12/24/2020 12:48	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		12/24/2020 12:48	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/17/20 10:35

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	15.9		0.00941	0.100	100	12/24/2020 15:13	<a href="#">WG1597138</a>
Toluene	U		0.0278	0.100	100	12/24/2020 15:13	<a href="#">WG1597138</a>
Ethylbenzene	2.29		0.0137	0.100	100	12/24/2020 15:13	<a href="#">WG1597138</a>
Total Xylenes	0.194	J	0.0174	0.300	100	12/24/2020 15:13	<a href="#">WG1597138</a>
(S) Toluene-d8	104			80.0-120		12/24/2020 15:13	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/24/2020 15:13	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		12/24/2020 15:13	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/17/20 10:10

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	12/24/2020 13:09	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 13:09	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 13:09	<a href="#">WG1597138</a>
Total Xylenes	0.000177	J	0.000174	0.00300	1	12/24/2020 13:09	<a href="#">WG1597138</a>
(S) Toluene-d8	104			80.0-120		12/24/2020 13:09	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	97.4			77.0-126		12/24/2020 13:09	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		12/24/2020 13:09	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/18/20 14:30

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	12/24/2020 09:12	<a href="#">WG1597138</a>
Toluene	U		0.000278	0.00100	1	12/24/2020 09:12	<a href="#">WG1597138</a>
Ethylbenzene	U		0.000137	0.00100	1	12/24/2020 09:12	<a href="#">WG1597138</a>
Total Xylenes	U		0.000174	0.00300	1	12/24/2020 09:12	<a href="#">WG1597138</a>
(S) Toluene-d8	105			80.0-120		12/24/2020 09:12	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	105			77.0-126		12/24/2020 09:12	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		12/24/2020 09:12	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/17/20 00:00

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	24.5		0.0471	0.500	500	12/31/2020 11:00	<a href="#">WG1599354</a>
Toluene	U		0.00695	0.0250	25	12/24/2020 15:33	<a href="#">WG1597138</a>
Ethylbenzene	0.477		0.00343	0.0250	25	12/24/2020 15:33	<a href="#">WG1597138</a>
Total Xylenes	U		0.00435	0.0750	25	12/24/2020 15:33	<a href="#">WG1597138</a>
(S) Toluene-d8	102			80.0-120		12/24/2020 15:33	<a href="#">WG1597138</a>
(S) Toluene-d8	107			80.0-120		12/31/2020 11:00	<a href="#">WG1599354</a>
(S) 4-Bromofluorobenzene	98.5			77.0-126		12/24/2020 15:33	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/31/2020 11:00	<a href="#">WG1599354</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		12/24/2020 15:33	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		12/31/2020 11:00	<a href="#">WG1599354</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 12/17/20 00:00

L1299286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	14.1		0.0188	0.200	200	12/24/2020 15:53	<a href="#">WG1597138</a>
Toluene	U		0.0556	0.200	200	12/24/2020 15:53	<a href="#">WG1597138</a>
Ethylbenzene	2.17		0.0274	0.200	200	12/24/2020 15:53	<a href="#">WG1597138</a>
Total Xylenes	0.156	J	0.0348	0.600	200	12/24/2020 15:53	<a href="#">WG1597138</a>
(S) Toluene-d8	106			80.0-120		12/24/2020 15:53	<a href="#">WG1597138</a>
(S) 4-Bromofluorobenzene	99.0			77.0-126		12/24/2020 15:53	<a href="#">WG1597138</a>
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		12/24/2020 15:53	<a href="#">WG1597138</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1299286-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16](#)

Method Blank (MB)

(MB) R3608482-2 12/24/20 07:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	102			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3608482-1 12/24/20 07:18

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00498	99.6	70.0-123	
Ethylbenzene	0.00500	0.00439	87.8	79.0-123	
Toluene	0.00500	0.00494	98.8	79.0-120	
Xylenes, Total	0.0150	0.0133	88.7	79.0-123	
(S) Toluene-d8			105	80.0-120	
(S) 4-Bromofluorobenzene			104	77.0-126	
(S) 1,2-Dichloroethane-d4			103	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1299286-02.04.15](#)

Method Blank (MB)

(MB) R3609268-3 12/31/20 07:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	100			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3609268-1 12/31/20 06:42 • (LCSD) R3609268-2 12/31/20 07:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.00500	0.00500	0.00506	100	101	70.0-123			1.19	20
Toluene	0.00500	0.00480	0.00511	96.0	102	79.0-120			6.26	20
(S) Toluene-d8				103	106	80.0-120				
(S) 4-Bromofluorobenzene				102	101	77.0-126				
(S) 1,2-Dichloroethane-d4				100	100	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
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- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.  
\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

### State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

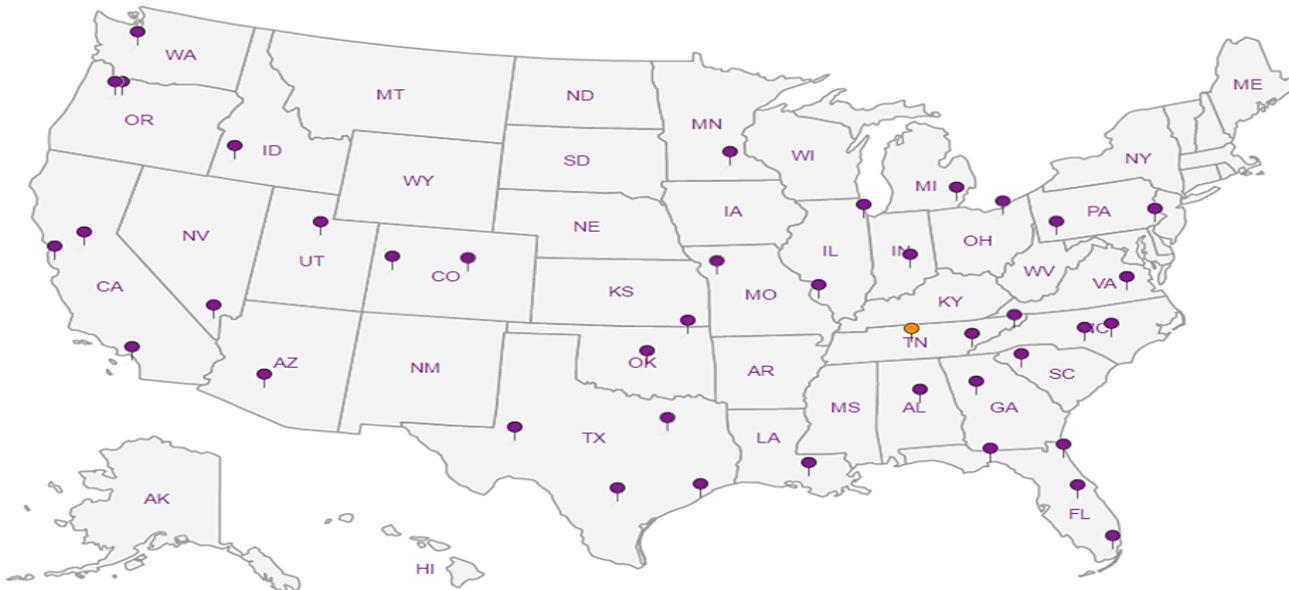
### Third Party Federal Accreditations

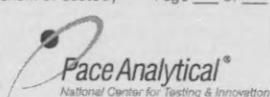
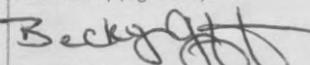
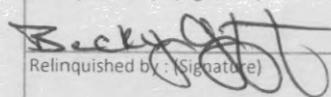
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

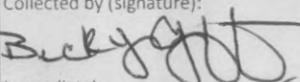
<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

### Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



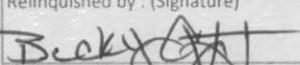
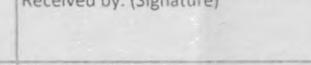
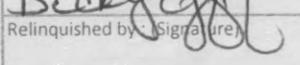
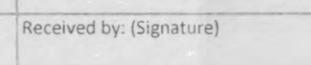
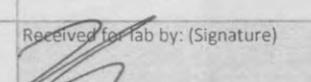
<b>DCP Midstream - Tasman</b> 6899 Pecos St., Unit C Denver, CO 80221		Billing Information: <b>Steve Weathers</b> 370 17th St, Ste 2500 Denver, CO 80202		Pres Chk	Analysis / Container / Preservative					Chain of Custody Page ___ of ___							
		Report to: <b>Kyle Norman</b>			Email To: <a href="mailto:knorman@tasman-geo.com">knorman@tasman-geo.com</a> ; <a href="mailto:bhumphrey@tasman-geo.com">bhumphrey@tasman-geo.com</a>							 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859					
Project Description: <b>Former Lee Gas Plant</b>		City/State Collected:		Please Circle: PT MT CT ET							SDG # <b>L1299286</b> <b>A133</b>						
Phone: <b>575-318-5017</b>		Client Project #		Lab Project # <b>DCPTASMAN-LEEGAS</b>		V8260BTEX 40mIAmb-HCl					Acctnum: <b>DCPTASMAN</b> Template: <b>T168947</b> Prelogin: <b>P814718</b> PM: <b>824 - Chris Ward</b> PB:						
Collected by (print): <b>BECKY GRIFFIN</b>		Site/Facility ID #		P.O. # <b>0000524229</b>												Shipped Via: <b>FedEX Ground</b>	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #												Remarks   Sample # (lab only)	
Immediately Packed on Ice N ___ Y ___		Date Results Needed		No. of Cntrs												Sample # (lab only)	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs											
MW-5		GW				3	X										
MW-6		GW				3	X										
MW-7		GW		12-17-20	1100	3	X										
MW-8		GW				3	X					-01					
MW-9		GW				3	X										
MW-10		GW		12-17-20	1140	3	X					02					
MW-11		GW		12-16-20	1105	3	X					03					
MW-12		GW		12-18-20	0820	3	X					04					
MW-13		GW		12-17-20	1315	3	X					09					
MW-14		GW		12-16-20	1015	3	X					06					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		Samples returned via: ___ UPS ___ FedEx ___ Courier		Tracking # <b>114522354635</b>		pH ___ Temp ___ Flow ___ Other ___		Sample Receipt Checklist COC Seal Present/Intact: ___ NP ___ Y ___ N COC Signed/Accurate: ___ Y ___ N Bottles arrive intact: ___ Y ___ N Correct bottles used: ___ Y ___ N Sufficient volume sent: ___ Y ___ N If Applicable VOA Zero Headspace: ___ Y ___ N Preservation Correct/Checked: ___ Y ___ N RAD Screen <0.5 mR/hr: ___ Y ___ N							
Relinquished by: (Signature) 		Date: <b>12-18-20</b> Time: <b>1500</b>		Received by: (Signature)		Trip Blank Received: Yes/No HCl / MeOH TBR		Temp: <b>12.5</b> °C Bottles Received: <b>45</b>		If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date: Time:		Received for lab by: (Signature)		Date: Time:		Hold:		Condition: NCF / <b>OK</b>							

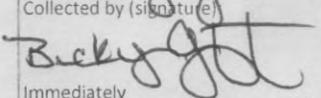
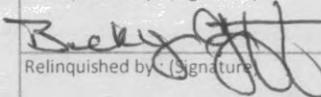
<b>DCP Midstream - Tasman</b> 6899 Pecos St., Unit C Denver, CO 80221		Billing Information: <b>Steve Weathers</b> 370 17th St, Ste 2500 Denver, CO 80202		Pres Chk	Analysis / Container / Preservative										Chain of Custody Page ___ of ___			
		Report to: <b>Kyle Norman</b>			Email To: <b>knorman@tasman-geo.com; bhumphrey@tasman-</b>		V8260BTEX 40ml/Amb-HCI										 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: <b>Former Lee Gas Plant</b>			City/State Collected:		Please Circle: PT MT CT ET													
Phone: <b>575-318-5017</b>		Client Project #		Lab Project # <b>DCPTASMAN-LEEGAS</b>												Table #		
Collected by (print): <b>BECKY GRIFFIN</b>		Site/Facility ID #		P.O. # <b>0000524229</b>														
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #														
Immediately Packed on Ice N ___ Y ___		Date Results Needed		No. of Cntrs														
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time												
MW-15			GW															
MW-16			GW		12-18-20	0925												
MW-17			GW		12-16-20	1230												
MW-18			GW		12-16-20	1405												
MW-19			GW		12-17-20	0920												
MW-20			GW		12-17-20	0810												
MW-21			GW		12-17-20	1035												
MW-22			GW		12-17-20	1010												
TRIA BLANK			GW		12-18-20	1430												
			GW															

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other \_\_\_\_\_

Remarks:  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_ Tracking # \_\_\_\_\_

Sample Receipt Checklist	
COC Seal Present/Intact: <input type="checkbox"/> NP	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature) 		Date: <b>12-18-20</b> Time: <b>1500</b>		Received by: (Signature) 		Trip Blank Received: <input checked="" type="checkbox"/> Yes / No HC / MeOH TBR		COC Seal Present/Intact: <input type="checkbox"/> NP	
Relinquished by: (Signature) 		Date: _____ Time: _____		Received by: (Signature) 		Temp: <b>42°C</b> Bottles Received: <b>1510-15 45</b>		If preservation required by Login: Date/Time	
Relinquished by: (Signature)		Date: _____ Time: _____		Received for lab by: (Signature) 		Date: <b>12/19/20</b> Time: <b>1045</b>		Hold: _____ Condition: <b>NCF / OK</b>	

<b>DCP Midstream - Tasman</b>  6899 Pecos St., Unit C Denver, CO 80221		Billing Information: <b>Steve Weathers</b> 370 17th St, Ste 2500 Denver, CO 80202		Pres Chk	Analysis / Container / Preservative										Chain of Custody Page ___ of ___								
		Report to: <b>Kyle Norman</b>			Email To: <b>knorman@tasman-geo.com; bhumphrey@tasman-</b>		V8260BTEX 40ml/Amb-HCI										 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859						
Project Description: <b>Former Lee Gas Plant</b>		City/State Collected:		Please Circle: PT MT CT ET		SDG # <b>L1299286</b>											Table #		Acctnum: <b>DCPTASMAN</b>		Template: <b>T168947</b>		
Phone: <b>575-318-5017</b>		Client Project #		Lab Project # <b>DCPTASMAN-LEEGAS</b>		Collected by (print): <b>BECKY GRIFFIN</b>											Site/Facility ID #		P.O. # <b>0000524229</b>		Prelogin: <b>P814718</b>		
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #		Date Results Needed											No. of Cntrs		PM: <b>824 - Chris Ward</b>		PB:		
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>		Sample ID		Comp/Grab		Matrix *											Depth		Date		Time		
Duplicates: <b>DUPLICATE - A</b> <b>DUPLICATE - B</b>				GW		12-17-20											3		X		- 15		
				GW		12-17-20											3		X		16		
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks:		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking #											pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				
Relinquished by: (Signature) 		Date: <b>12-18-20</b>		Time: <b>1500</b>		Received by: (Signature)											Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No HCL / MeOH TBR		If preservation required by Login: Date/Time				
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)											Temp: <b>42</b> °C <b>1.5E-01.5</b>		Bottles Received: <b>95</b>		Hold:		
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date: <b>12/19/20</b>		Time: <b>1045</b>		Condition: <b>NCF / OK</b>											



February 05, 2020

Tasman Geosciences  
Brian Humphrey  
6855 West 119th Avenue  
Broomfield CO 80020

Project Name - DCP - Former Lee Gas Plant      Project Number - [none]

Attached are your analytical results for DCP - Former Lee Gas Plant received by Origins Laboratory, Inc. January 30, 2020. This project is associated with Origins project number Y001462-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Former Lee Gas Plant

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RW01-01	Y001462-01	Air	January 27, 2020 15:40	01/30/2020 14:07
MW10-01	Y001462-02	Air	January 27, 2020 17:30	01/30/2020 14:07
MW10-02	Y001462-03	Air	January 28, 2020 16:11	01/30/2020 14:07
RW01-02	Y001462-04	Air	January 29, 2020 12:00	01/30/2020 14:07

Origins Laboratory, Inc.

A handwritten signature in black ink that reads "Jen Pellegrini".

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President





Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Former Lee Gas Plant

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y001462 Client: Tasman  
 Client Project ID: Former Lee Booster  
 Checklist Completed by: JG Shipped Via: HD  
 Date/time completed: 1/30/2020 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply): Soil/Solid Water  Other: Air  
 Cooler Number/Temperature: 1 / - °C / °C / °C (Describe)  
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Is there ice present (document if blue ice is used)			<input checked="" type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours preserved <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO <sub>3</sub> ; HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) MP Date/Time Reviewed 1/31/20

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Former Lee Gas Plant

**RW01-01**

**1/27/2020 3:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y001462-01 (Air)

**GBTEX by TO-15M GC/MS**

T

Gasoline Range Hydrocarbons	6730	400	ug/m <sup>3</sup> Air	2	B0B0403	DJL	02/04/2020	02/05/2020	
Benzene	20.9	5.60	"	"	"	DJL	"	"	
Toluene	53.9	10.0	"	"	"	DJL	"	"	
Ethylbenzene	13.9	10.0	"	"	"	DJL	"	"	
m,p-Xylene	354	38.0	"	"	"	DJL	"	"	
o-Xylene	27.9	9.40	"	"	"	DJL	"	"	
Surrogate: 1,2-Dichloroethane-d4	95.7 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	116 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %		70-130		"	"	"	"	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Former Lee Gas Plant

**MW10-01**

**1/27/2020 5:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y001462-02 (Air)

**GBTEX by TO-15M GC/MS**

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Gasoline Range Hydrocarbons	3960	400	ug/m <sup>3</sup> Air	2	B0B0403	DJL	02/04/2020	02/05/2020	
Benzene	15.0	5.60	"	"	"	DJL	"	"	
Toluene	29.8	10.0	"	"	"	DJL	"	"	
Ethylbenzene	11.6	10.0	"	"	"	DJL	"	"	
m,p-Xylene	214	38.0	"	"	"	DJL	"	"	
o-Xylene	13.5	9.40	"	"	"	DJL	"	"	
Surrogate: 1,2-Dichloroethane-d4	98.3 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	107 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	123 %		70-130		"	"	"	"	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Former Lee Gas Plant

**MW10-02**  
**1/28/2020 4:11:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001462-03 (Air)**

**GBTEX by TO-15M GC/MS**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Gasoline Range Hydrocarbons	3210	400	ug/m <sup>3</sup> Air	2	B0B0403	DJL	02/04/2020	02/05/2020	T
Benzene	ND	5.60	"	"	"	DJL	"	"	U
Toluene	ND	10.0	"	"	"	DJL	"	"	U
Ethylbenzene	ND	10.0	"	"	"	DJL	"	"	U
m,p-Xylene	186	38.0	"	"	"	DJL	"	"	
o-Xylene	ND	9.40	"	"	"	DJL	"	"	U
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	126 %	70-130			"	"	"	"	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Former Lee Gas Plant

**RW01-02**

**1/29/2020 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y001462-04 (Air)**

**GBTEX by TO-15M GC/MS**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Gasoline Range Hydrocarbons	1530	400	ug/m <sup>3</sup> Air	2	B0B0403	DJL	02/04/2020	02/05/2020	T
Benzene	11.9	5.60	"	"	"	DJL	"	"	
Toluene	12.4	10.0	"	"	"	DJL	"	"	
Ethylbenzene	ND	10.0	"	"	"	DJL	"	"	U
m,p-Xylene	69.3	38.0	"	"	"	DJL	"	"	
o-Xylene	ND	9.40	"	"	"	DJL	"	"	U
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"	

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Jen Pellegrini For Noelle Doyle Mathis, President



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Former Lee Gas Plant

**Volatile Organic Compounds by TO-15 in Air - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0B0403 - Default Prep - Air</b>										
<b>Blank (B0B0403-BLK1)</b>										
										Prepared: 02/04/2020 Analyzed: 02/04/2020
T										
Gasoline Range Hydrocarbons	ND	200	ug/m <sup>3</sup> Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	10.5		ppbv	10.0		105	70-130			
Surrogate: Toluene-d8	9.56		"	10.0		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	10.3		"	10.0		103	70-130			
<b>LCS (B0B0403-BS1)</b>										
										Prepared: 02/04/2020 Analyzed: 02/04/2020
T										
Benzene	32.0	2.80	ug/m <sup>3</sup> Air	31.9		100	70-130			
Toluene	30.7	5.00	"	37.7		81.4	70-130			
Ethylbenzene	38.7	5.00	"	43.4		89.2	70-130			
m,p-Xylene	184	19.0	"	174		106	70-130			
o-Xylene	41.7	4.70	"	43.4		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	9.05		ppbv	10.0		90.5	70-130			
Surrogate: Toluene-d8	9.80		"	10.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	10.4		"	10.0		104	70-130			
<b>LCS Dup (B0B0403-BSD1)</b>										
										Prepared: 02/04/2020 Analyzed: 02/04/2020
T										
Benzene	32.6	2.80	ug/m <sup>3</sup> Air	31.9		102	70-130	1.88	25	
Toluene	31.4	5.00	"	37.7		83.3	70-130	2.31	25	
Ethylbenzene	40.2	5.00	"	43.4		92.6	70-130	3.74	25	
m,p-Xylene	191	19.0	"	174		110	70-130	3.75	25	
o-Xylene	43.7	4.70	"	43.4		101	70-130	4.78	25	
Surrogate: 1,2-Dichloroethane-d4	8.93		ppbv	10.0		89.3	70-130			

Origins Laboratory, Inc.

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Jen Pellegrini For Noelle Doyle Mathis, President



Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - Former Lee Gas Plant

**Volatile Organic Compounds by TO-15 in Air - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0B0403 - Default Prep - Air

LCS Dup (B0B0403-BSD1)

Prepared: 02/04/2020 Analyzed: 02/04/2020

T

Surrogate: Toluene-d8	9.94		ppbv	10.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	10.7		"	10.0		107	70-130			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Brian Humphrey  
Project Number: [none]  
Project: DCP - Former Lee Gas Plant

**Notes and Definitions**

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President

Appendix C

Pilot Test Work Plan

# **AIR SPARGE/ SOIL VAPOR EXTRACTION PILOT TEST WORK PLAN**

**Former Lee Gas Plant - GW-002**

**Lea County, New Mexico  
Unit N, Section 30, Township 17 South, Range 35 East**

**Prepared for:**



370 17<sup>th</sup> St., Suite 2500  
Denver, CO 80202

**Prepared by:**



Tasman Geosciences  
6855 West 119<sup>th</sup> St  
Broomfield, CO 80020

January 8, 2020

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Attachments:

Figure 1 – Site Location Topographic Map

Figure 2 – Site Map with Monitoring Well Locations

## 1.0 INTRODUCTION

Tasman Geosciences, Inc. (Tasman) has prepared this Pilot Test Work Plan (Plan) on behalf of DCP Midstream, LP (DCP) to summarize the methodology and implementation schedule for conducting Air Sparge (AS) and Soil Vapor Extraction (SVE) pilot testing at the Former Lee Gas Plant (Site) located in Lea County, NM. Pilot testing is being conducted to establish design parameters for optimization and installation of an AS/SVE remediation system to mitigate petroleum hydrocarbon impacts within the Site sub-surface. The pilot tests will verify the remediation strategy for this Site and aid in finalizing system design and implementation.

The implementation of proper pilot test procedures is critical to designing and installing an effective and efficient AS/SVE system. The pilot tests will specifically aid in the development of critical system designs and operations and will include the following:

- Well layout and construction
- Pilot test equipment selection
- Flow and pressure ranges
- Test durations
- Groundwater parameter measurements
- Radius of influence (ROI) measurements
- Data analysis

### 1.1 SITE HISTORY

The Site (Figure 1) is located in the southwest quarter of the southeast quarter of Section 30, Township 17 South, Range 35 East, approximately 0.45 miles southeast of the intersection of US Highway 238 and County Road 50. The approximate field coordinates are 32.800 degrees north and 103.495 degrees west. The area is sparsely populated and land use is primarily associated with livestock grazing and oil and gas production and gathering.

Based on review of historical reports from previous Site investigations, the Site was historically used as a gas processing and compression plant. In 1988, Phillips 66 Natural Gas Company was ordered to install four monitoring wells (MW-1 through MW-4) in accordance with the Resource Conservation and Recovery Act (RCRA). An initial groundwater sampling event took place May 13, 1988 and identified impacts in the location of two former evaporation ponds north and east of the main plant. Light non-aqueous phase liquid (LNAPL) was identified immediately above the water table at an approximate depth of 106 feet below ground surface (bgs). Several additional subsurface investigations were performed to determine the extent of both the free and dissolved phase hydrocarbon plumes, resulting in the installation of monitoring and recovery wells as described below:

- MW-5 through MW-8 and RW-1: Installed May 1990 – LNAPL recovery initiated at RW-1.
- MW-9 through MW-12: Installed October 1990.
- MW-13 and MW-14: Installed March 1991 – MW-7, MW-8, and MW-10 were converted into recovery wells.
- MW-15 through MW-20: Installed February 1992.

Subsequent to installation of the final six wells, quarterly groundwater sampling commenced. In addition, a soil vapor extraction (SVE) and air sparge (AS) system operated between 1993 and 2004. Currently, Site groundwater monitoring wells are sampled on a semi-annual basis.

Measurable free phase hydrocarbons have been detected within monitoring wells MW-5, MW-6, MW-8, and MW-15. LNAPL recovery at MW-15 was initiated on September 14, 2013 (second half 2013) using a Magnum Spill Buster automatic LNAPL recovery system. Details regarding Spill Buster implementation were described in the Second Half 2013 Report. The Spill Buster did not operate during the first half 2018 due to various mechanical and electrical issues. The repaired Spill Buster was returned to operation on November 9, 2018 and operated for the remainder of the first half 2019. Since LNAPL recovery was initiated at MW-15, the Spill Buster system has removed a cumulative total of approximately 486 gallons of LNAPL through June 2019.

Due to the continued trend of BTEX concentrations above standards at monitoring well MW-12 and fluctuations above standards in MW-13, additional groundwater remediation activities at the Site are warranted. In October 2019, two air-sparge (AS) wells were installed at the locations illustrated on Figure 2 to address the dissolved phase BTEX concentrations on-Site.

Pilot tests will be initiated to determine the efficacy of such remediation technologies during the First Half of 2020 and the results of the evaluation will be presented in the First Half 2020 Semi-Annual Groundwater Monitoring Summary Report.

## **2.0 WELL LAYOUT AND CONSTRUCTION**

The pilot test well layout and construction parameters are described below.

### **2.1 USING EXISTING OBSERVATION AND MONITORING WELLS**

Following system shutdown of the previous remediation system, the existing SVE Remediation Well (RW-1) and two AS Remediation Wells that were installed in October 2019 will be utilized as part of the pilot test procedures. In addition, existing groundwater monitoring wells will be utilized as pilot test observation wells (Figure 2). To reduce costs, these pilot test remediation wells will also be incorporated into the final full-scale remediation design. However, additional system and monitoring wells may need to be installed to maximize the remediation system ROI.

To generate the most usable data with the current monitoring network, pilot test monitoring wells will be located at differing distances from the AS and SVE pilot test wells, usually within 10 to 50 feet. However, the expected ROI is more than 75 feet at the Site based on historic remediation system operational parameters and observations. The system and proposed observation wells for this pilot test are shown on Figure 2. The monitoring wells also should be screened both above and below the top of groundwater to best intercept the effects of the AS/SVE process. If the formation is permeable, pressure changes will be seen in the vadose zone and not necessarily in the saturated zone. Monitoring/observation wells only screened in the saturated zone may not exhibit measurable pressures during the pilot test. These wells can be used for groundwater elevation measurements.

## **2.2 INSTALLING NEW WELLS**

Two dedicated AS wells were installed with a 2-foot section of slotted screen with 2-inch diameter polyvinyl chloride (PVC) well casing, the top of which have been installed below the historic low groundwater elevation. Future installation of AS wells should be installed with a 2-foot section of slotted screen, the top of which should be a minimum of 10 feet below the historic low groundwater elevation and 2-inch diameter PVC well casing can be used. The screened interval should be installed with a sand pack filling the well annulus that is a minimum of 2-inches thick. The sand pack should be installed from the bottom of the well bore to between 6 and 12-inches above the top of the screen. Above this, a bentonite plug should be installed to prevent sparge air from traveling up the well annulus to the surface without contacting the surrounding groundwater formation.

Following evaluation of the Pilot test results and design of the full-scale remediation system, dedicated SVE wells should be installed with a well screen that spans the depth of soil impacts. The screened interval should be installed so it has greater than 50% located in the vadose zone. 2 or 4-inch diameter well screen can be used. The screened interval should be installed with a sand pack filling the well annulus that is a minimum of 2" thick. A bentonite grout plug should be installed 1 foot above the top of the screened interval.

## **2.3 PROPOSED AS/SVE WELL LOCATION AND CONSTRUCTION**

As noted above, several existing groundwater monitoring wells will be used as observation pilot test points for monitoring the ROI of the AS/SVE pilot test. Additional system, observation and monitoring wells may be required and will be presented as an addendum to this plan once the Pilot Test results have been evaluated and the design of a full-scale system is completed.

### **2.3.1 AS Well**

Tasman installed two AS pilot test wells (AS-1 and AS-2) in October 2019 approximately 80 feet and 145 feet south of MW-8. The two wells (AS-1 and AS-2) were screened from 117-119 feet and 128-130 feet bgs, respectively, using 2-inch PVC well screen.

### **2.3.2 SVE Well**

The existing SVE well from the previous system, RW-1, is planned to be utilized for the upcoming pilot test. Following the Pilot Test results and evaluation, Tasman will propose to install additional SVE wells as needed to maximize the system ROI.

## **3.0 PILOT TEST EQUIPMENT**

Pilot test equipment will be selected based on the geology of the area where the AS/SVE test is to be performed and experience working with other Sites and vendors in and around the area. In general, based on historic information as well as the recent AS wells that were installed, the Site lithology consists of the upper 10 feet of well graded gravels with a mixture of silty sand and

caliche layers over a layer of well-graded sand to a depth of approximately 25 feet below ground surface (bgs). Below 25 to 30 feet, the lithology is mostly comprised of poorly graded sands that are present to approximately 120 to 130 feet bgs. The depth to groundwater water ranges throughout the Site from between 105 to 115 feet bgs.

### **3.1 AIR SPARGE**

Depending on the type of geology encountered at the site, required pressures can range from 5 to 50 psi to achieve breakout, the pressure required to initially force air from the sand pack into the surrounding formation. Air flow rates can reach 10 cfm for a vertical well and 0.2 cfm per foot for horizontal wells using ADS type slotted diffuser pipes.

#### **3.1.1 Pressure Requirements**

With the Site geology changing with depth from low permeability overburden to high permeability sand, a compressor capable of producing 50+ psi will be used for the pilot test to ensure adequate breakout pressure. Breakout pressures for this Site are not anticipated to be more than 90 psi.

#### **3.1.2 Flow Requirements**

Vertical AS wells with a 2-foot slot screened interval will require a flow rate of 5-10 cfm. However, based on historic testing and system flow rate parameters, it is anticipated sufficient flow into the formation will be achieved around 5 cfm.

### **3.2 SOIL VAPOR EXTRACTION**

With the varying geology and evaluation of historical system operations at the site, it is anticipated that vacuum rates will range from -5 to -12 inches of Mercury (in-Hg) and air flow rates will be up to 50 to 60 cfm for a vertical well.

#### **3.2.1 Vacuum Requirements**

A 100-bbl vacuum truck will be used for the SVE portion of the test. These can provide vacuum rates of up to -27 in-Hg.

#### **3.2.2 Flow Requirements**

Vertical SVE wells with a 10-foot slot-screened interval will require a flow rate of 25-100 cfm. Vacuum trucks are capable of producing up to 1,400 cfm.

### **3.3 MONITORING EQUIPMENT**

Multiple parameters should be measured during pilot test activities in order to properly size the system to be installed at the site. These include:

- AS flow rate using a variable area flow meter
- SVE flow rate using a Velocicalc portable electronic flow meter
- Pressure/vacuum at monitoring/observation wells using Magnehelic gauges or an electronic manometer
- Volatile organic compound (VOC) vapor concentration on SVE discharge using a photoionization detector (PID)
- Dissolved oxygen (DO) in the groundwater using a multiparameter water measurement device to include DO meter

- Groundwater elevation using an interface probe

### **3.4 PROPOSED EQUIPMENT**

Tasman proposes using a tow-behind air compressor for the AS portion of the test. This compressor produces compressed air with a pressure up to 125 psi and a flow rate up to 180 cfm. This pressure and flow will allow for sufficient pressure and flow to achieve breakout and have a measurable influence.

For the SVE portion of the pilot test, Tasman proposes using a 100-barrel vacuum truck. The truck can provide a vacuum of 10 in-Hg at a flow of greater than 100 cfm. The vacuum truck allows for the transport of any water that may be extracted during the pilot test.

## **4.0 SOIL VAPOR EXTRACTION PILOT TEST**

The SVE portion of the pilot test should be performed first. This allows for the measuring of VOCs in the void spaces in the formation prior to the introduction of air. This will produce a baseline that is used to determine if AS is volatilizing VOCs in the groundwater.

### **4.1 FIELD ACTIVITIES**

Prior to starting the test, a complete round of field parameters will be collected. Pilot test activities will then be performed on the SVE pilot test well.

Prior to connecting to the SVE well, the vacuum truck blower will be turned on and allowed to flush out any material that may remain from the last site where the unit was used. The VOC concentration on the inlet and outlet of the blower will be measured and recorded.

The SVE blower will be connected to the well with the throttling valve closed. The valve will be slowly opened, and operational parameters including flow, vacuum, and VOC concentrations will be recorded.

The flow and vacuum will be increased in a stepwise fashion starting at 25% of the estimated maximum vacuum that a typical SVE blower can achieve for this Site. After each stepped change of the applied flow and vacuum, field parameters at the observation/monitoring wells will be recorded. After flow and vacuum readings have stabilized, the vacuum will be increased to 50% of the maximum. The final portion of the test will be conducted with a vacuum of 10-12 in-Hg. After the last round of field screening has been completed (as described below), the SVE unit will be turned off, and the AS portion of the pilot test will be initiated.

### **4.2 FIELD SCREENING**

The soil vapors will be measured with a PID to measure relative concentrations of VOCs removed during the test. Influent and effluent vapor concentrations will be monitored at the inlet and outlet ports of the vacuum blower.

### **4.3 VACUUM INFLUENCE**

During the SVE phase of the pilot test, vacuum levels will be measured in existing observation/monitoring wells; which may include MW-3, 4, 7, 8, 21, 22, and 23 to evaluate the vacuum ROI. Data collected during the pilot test will be summarized on a field data sheet.

### **4.4 TEST DURATION**

Once stabilized, one additional round of field parameters will be recorded. The minimum SVE pilot test running time is estimated to be approximately 2 to 4 hours.

## **5.0 AIR SPARGE PILOT TEST**

The AS-only portion of the pilot test will be performed after the SVE only portion is completed.

### **5.1 FIELD ACTIVITIES**

The AS pilot test will be performed on the AS pilot test wells. This phase of the pilot test involves injecting compressed air into the AS well and examining the pressure influence, groundwater elevation, and soil vapor concentrations in observation wells MW-8, MW-10 and other existing locations within a reasonable distance to the AS well.

The air compressor will be connected to a pressure regulating valve that is equipped with a pressure gauge. The injection pressure will be increased one psi at a time and the flow rate will be observed and recorded. Initially after each increase in pressure, it is anticipated that the flow indicator will register flow and then drop to 0 flow. This is a result of air going into the well piping and the pressure equalizing but no air going into the formation. Once flow into the formation is established pressure will no longer be at 0 cfm. The pressure at which flow into the formation is established is known as "breakout pressure". Once breakout pressure has been reached the pressure at the observation/monitoring wells will be recorded. The injection pressure will continue to be increased by 5-psi steps until 40 psi is reached. Depending on the permeability of the formation it may not be possible to reach 40 psi. The formation may be able to accept all of the induced air from the air compressor at a pressure that is lower than 40 psi.

### **5.2 FIELD SCREENING**

Soil vapors will be measured with a PID, to measure relative concentrations of VOCs in the AS pilot test and observation wells during the test. In addition, DO will be measured in the AS and observation wells.

### **5.3 PRESSURE INFLUENCE**

During the AS pilot test pressure levels at AS pilot test well will be measured to evaluate the pressure radius of influence. Magnehelic gauges and/or an electronic manometer will be used to observe and record pressure influence in each of the monitoring wells.

### **5.4 TEST DURATION**

Once breakout pressure is established the system will usually stabilize within one hour. Once stabilized, one additional round of field parameters should be recorded. The estimated minimum running time is anticipated to be 2 to 4 hours.

## **6.0 COMBINED AIR SPARGE/SOIL VAPOR EXTRACTION PILOT TEST**

After the AS-only portion of the pilot test is completed the vacuum truck blower will be turned on while leaving the AS compressor running. During the combined portion of the pilot test, the AS and SVE may cancel each other out and result in 0 pressure at the observation/monitoring wells.

### **6.1 FIELD ACTIVITIES**

During the combined AS/SVE phase of the pilot test, the flow and pressure for both will be adjusted and recorded. The adjusted pressures should be in the range that the permanent system will operate. During this portion of the testing, flow and pressure will be kept consistent. As preferential pathways open up, flow rates may increase while pressure rates decrease, requiring pressure and flow adjustments for system optimization.

### **6.2 FIELD SCREENING**

Soil vapors will be measured with a PID, to measure relative concentrations of VOCs in remediation wells during the test. In addition, DO in the remediation and observation wells will be measured and recorded.

### **6.3 PRESSURE/VACUUM INFLUENCE**

During the AS/SVE phase of the pilot test the pressure levels at observation wells will be measured to evaluate the induced ROI.

### **6.4 TEST DURATION**

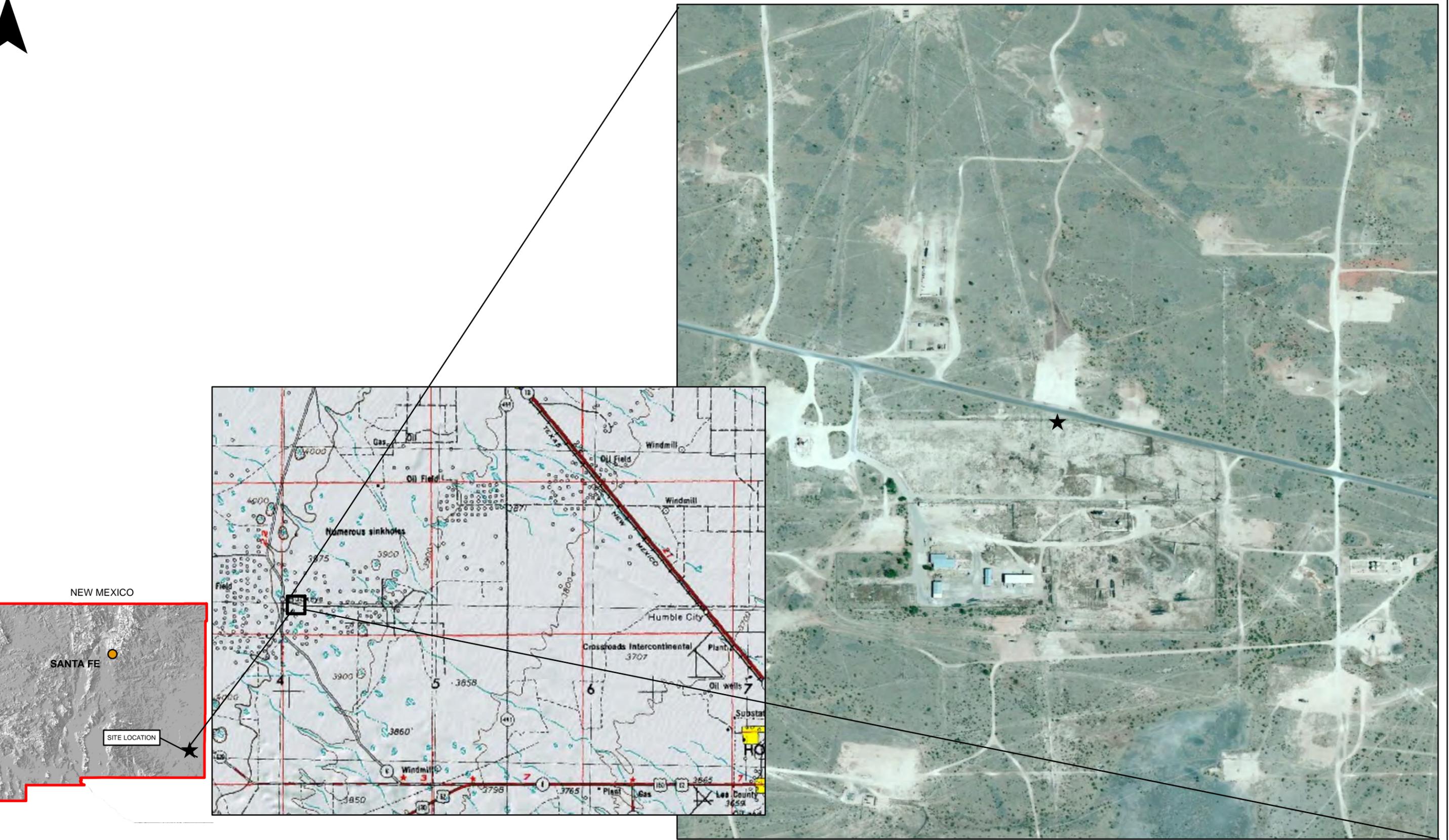
Once flow and pressure have stabilized, one additional round of field parameters will be recorded. The estimated minimum running time of the combined AS/SVE pilot test is 2 to 4 hours.

## **7.0 DATA ANALYSIS**

The data collected during pilot test activities will be used to identify the following system parameters:

- SVE vacuum and flow per well
- AS pressure and flow per well
- ROI for AS/SVE wells

The data will be used to develop a Basis of Design (BOD). The BOD will finalize the locations for the additional AS and SVE remediation wells and will also recommend equipment specifications.



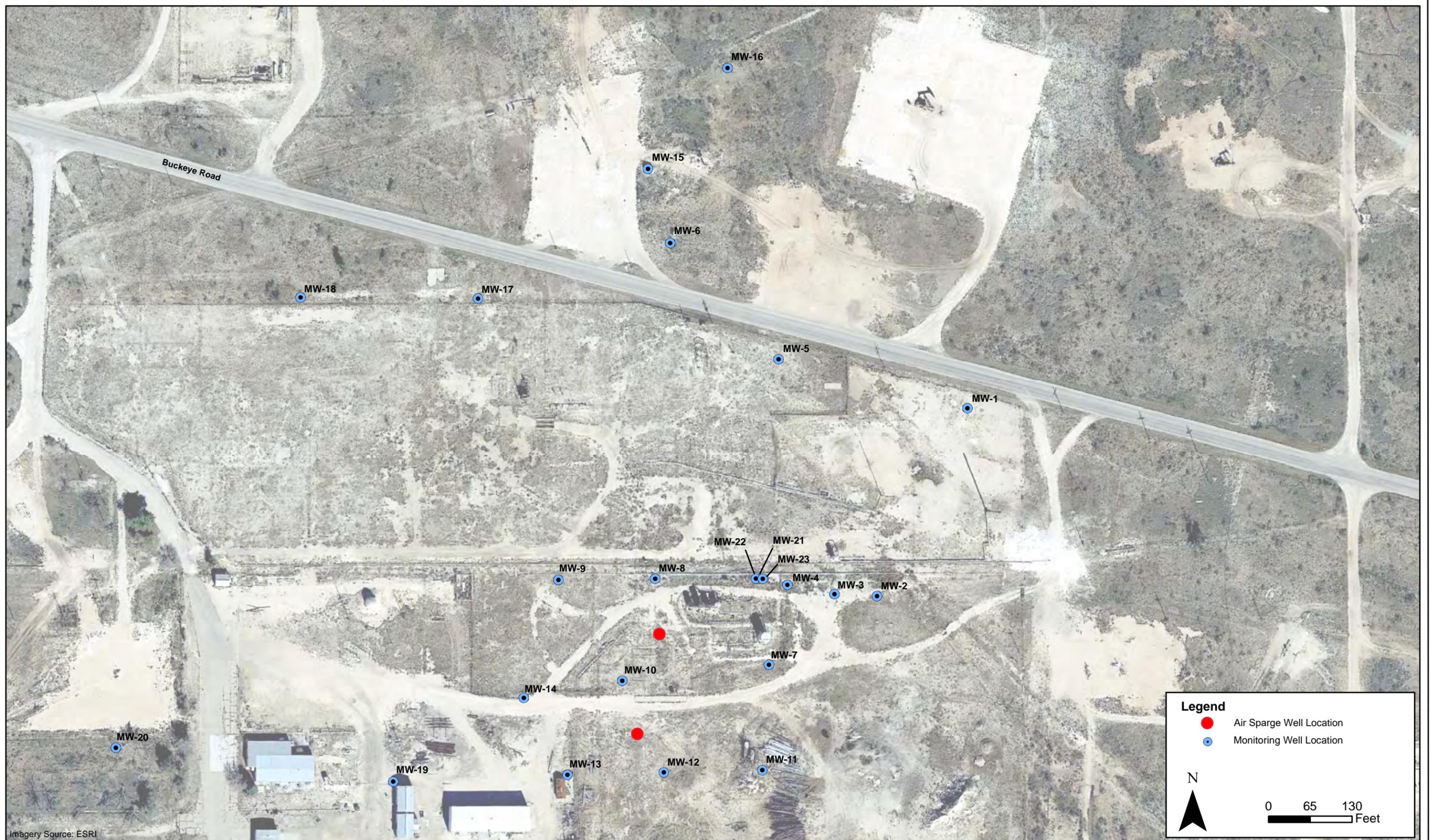
DATE:	June 2015
DESIGNED BY:	T. Johansen
DRAWN BY:	D. Arnold

 **TASMAN** GEOSCIENCES  
 Tasman Geosciences, LLC  
 6899 Pecos Street - Unit C  
 Denver, CO 80221

**DCP Midstream**  
**Former Lee Gas Plant**  
 SW 1/4, SE 1/4, Section 30, Township 17 South, Range 35 East  
 Lea County, New Mexico

Site Location  
 Map

Figure  
 1



DATE:	January 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold


**TASMAN** Geosciences, Inc.  
 6895 W. 119th Ave  
 Broomfield, CO 80020

**DCP Midstream  
Former Lee Gas Plant**

Site Map with  
Monitoring Well  
Locations

**Figure  
2**

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
 Action 50970

**CONDITIONS**

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 50970
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
nvelez	Review of Annual 2020 Groundwater Monitoring Summary Report: Content satisfactory 1. Follow recommendations stated within Annual 2020 Groundwater Monitoring Summary Report.	2/10/2022