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October 29, 2020

Bradford Billings
New Mexico Oil Conservation Division
5200 Oakland Avenue, N.E. Suite 100
Albuquerque, New Mexico 87113

**Re: Buckeye Compressor Station Site
2019 Annual Groundwater Monitoring Report
Abatement Plan AP-104
Lea County, New Mexico**

Dear Mr. Billings,

Please find enclosed the following report:

Buckeye Compressor Station Site – 2019 Annual Groundwater Monitoring Report, Section 36 –Township 17 South – Range 34 East, Lea County New Mexico.

The Report was prepared by Arcadis U.S., Inc. (Arcadis), on behalf of Chevron Environmental Management Company (CEMC) to document on-going groundwater monitoring and remediation activities throughout 2019 at the Site.

If you have any questions regarding this submittal, please contact Scott Foord with Arcadis at (713) 953-4853 or myself at (832) 854-5601.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason Michelson".

Jason Michelson
Project Manager

Encl. Buckeye Compressor Station Site – 2019 Annual Groundwater Monitoring Report

Chevron Environmental Management Company

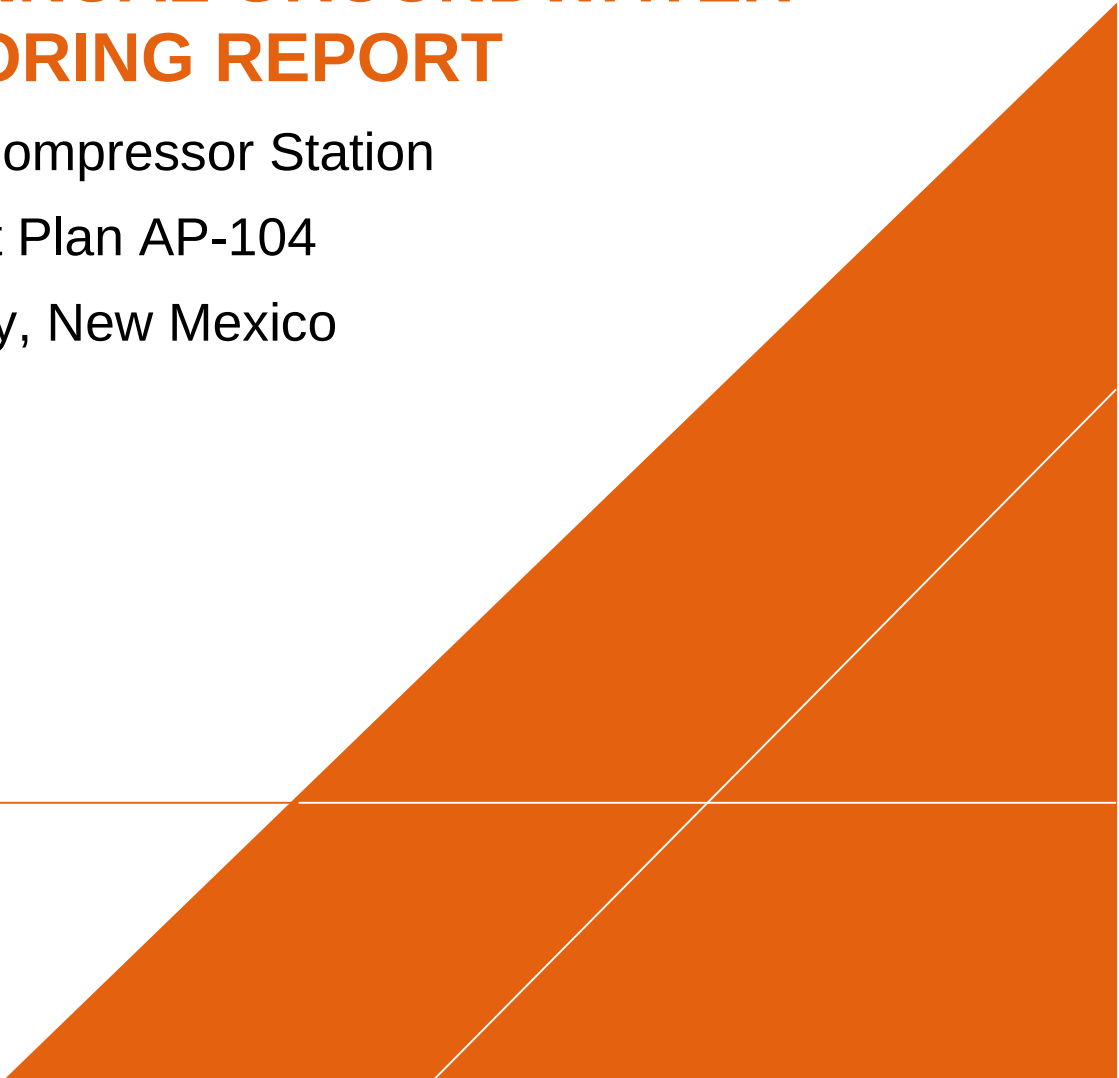
2019 ANNUAL GROUNDWATER MONITORING REPORT

Buckeye Compressor Station

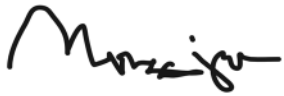
Abatement Plan AP-104

Lea County, New Mexico

28 October 2020



2019 ANNUAL GROUNDWATER MONITORING REPORT



Scientist II
Morgan Jordan



Project Manager
Scott Foord

2019 ANNUAL GROUNDWATER MONITORING REPORT

Buckeye Compressor Station

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1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) has prepared this report, on behalf of Chevron Environmental Management Company (CEMC), summarizing semiannual groundwater monitoring activities conducted at the Buckeye Compressor Station (Site) during 2019. Data presented in this report was collected during semi-annual groundwater monitoring events conducted in January/February 2019 and December 2019. In addition, light non-aqueous phase liquid (LNAPL) was removed from select monitoring wells on an approximate biweekly O&M schedule. The Site is under Abatement Plan (AP) 104 of the New Mexico Oil Conservation Division (NMOCD).

The Buckeye Compressor Station is located immediately north of Texas Camp Road, approximately one mile southwest of Buckeye, Lea County, New Mexico. The general vicinity is shown on **Figure 1** and Site details are presented on **Figure 2**. The Site location is in Section 36, Township 17 South, Range 34 East at geographic coordinates 32° 47' 3.93"N, 103° 30' 30.08"W. A Site Location Map is presented as **Figure 1**. Additional Site background information is presented in **Appendix A**.

2 GROUNDWATER MONITORING RESULTS

Groundwater at the Site is monitored semi-annually from a network of 26 monitoring wells. A Site Details Map is presented as **Figure 2**. GHD Services, Inc. (GHD) and Arcadis performed semi-annual groundwater sampling events on January 28 through February 1, 2019, and December 16-20, 2019, respectively. Field monitoring methodologies are detailed in **Appendix B**.

Wells TW-11, TW-13 and TW-20, associated with the adjacent Vacuum Grayburg San Andres Unit No. 58 (VGSAU #58) site (Buckeye Vacuum Field Unit) located south of Texas Camp Road (**Figure 2**), are included in the groundwater monitoring program in order to monitor dissolved phase contaminants to the southeast of the Site.

2.1 Groundwater Gauging Data

Groundwater levels gauged during 2019 are summarized in **Table 1**. The potentiometric surface maps for the January and December 2019 gauging events are presented on **Figures 3 and 4**, respectively. Historical groundwater gauging data is summarized in **Appendix C**.

Groundwater and light non-aqueous phase liquid (LNAPL) measurements collected during the semi-annual monitoring events conducted in 2019 indicate.

- Groundwater elevations ranged from:
 - o 3854.25 feet above mean sea level (ft. MSL) (MW-22) to 3860.06 ft. MSL (MW-25) during the January 2019 gauging event, and
 - o 3853.02 feet above mean sea level (ft. MSL) (MW-22) to 3859.66 ft. MSL (MW-25) during the December 2019 gauging event.
- The calculated gradient:

- o 0.002 ft/ft for the January 2019 gauging event, and
- o 0.003 ft/ft for the December 2019 gauging event.
- The groundwater elevations during the 2019 period appear to be consistent with historical levels, with groundwater flow generally to the east.

2.2 LNAPL Occurrence and Recovery

LNAPL was present in four monitoring wells (MW-3, MW-9, MW-19, and EW-1) during the January 2019 monitoring events, and five monitoring wells (MW-3, MW-8, MW-9, MW-19, and EW-1) during the December 2019 monitoring events. In addition to the semi-annual monitoring events, LNAPL thickness was gauged on a biweekly basis in conjunction with LNAPL bailing activities. LNAPL thicknesses gauged in 2019 are included in **Table 1** and are with historical data in **Appendix C**. The distribution and extent of LNAPL during the January and December 2019 monitoring events are presented on **Figures 5 and 6**, respectively.

The ranges of LNAPL thicknesses gauged semi-annually during the January and December 2019 events are summarized below:

- 0.85 feet to 1.05 feet in MW-3,
- 0 feet to 3.59 feet in MW-8,
- 0.50 feet to 1.05 feet in MW-9,
- 3.51 feet to 3.82 feet in MW-19, and
- 3.41 feet to 3.59 feet in EW-1

2.2.1 Biweekly LNAPL Bailing

LNAPL thicknesses were gauged on a biweekly basis in conjunction with LNAPL bailing activities. Bailers were used to recover LNAPL from each well. Approximately 97 gallons of LNAPL were collectively recovered from bailing events conducted during 2019. LNAPL and groundwater bailed during each recovery event is stored in a 520-gallon double walled stainless steel tank. Secondary containment features consist of a 1,000-gallon fiberglass tank and an earthen berm. Volumes of LNAPL and groundwater recovered during 2019 are included in **Table 1**. Historical gauging data and volumes of recovered fluids are provided in **Appendix C**. Since 2011, approximately 1,177 gallons of LNAPL have been collectively bailed from the wells. An additional 330 gallons of LNAPL was recovered during two MDPE events performed in 2015. Charts showing historical trends of LNAPL thickness in wells of the main plume are provided in **Appendix E**.

2.3 Groundwater Analytical Results

Groundwater was sampled in all existing wells at the Site during 2019 except those containing LNAPL. Wells TW-11, TW-13, and TW-20 of the adjacent VGSAU #58 site were also sampled. MW-8, which typically contains LNAPL, was sampled during the January 2019 event when LNAPL was absent. As previously mentioned, MW-11 was destroyed during pipeline replacement activities in late 2012.

Groundwater analytical results of the semi-annual monitoring events are summarized in **Table 2** with reference to NMWQCC standards. The distribution of constituents, LNAPL occurrence, and approximate extent of the hydrocarbon plume for each event are displayed on **Figures 7 and 8**. The extent of the dissolved phase hydrocarbon plume is fully delineated. A summary of historical groundwater analytical results is provided in **Appendix D**. Charts showing trends of historical concentrations of benzene through time are provided in **Appendix F**.

The laboratory analytical reports and associated chain of custody forms for the 2019 monitoring period are provided in **Appendix G**.

Results of each monitoring event in reference to NMWQCC standards are summarized below. Wells with LNAPL are included because the underlying groundwater is presumed to exceed the benzene standard. As noted earlier, NMWQCC standards do not include TPH.

2.3.1 January/ February 2019 Event

- LNAPL was present in four wells (MW-3, MW-9, MW-19, and EW-1);
- Benzene exceeded the 0.01 mg/L standard in five wells (MW-1, MW-4, MW-6, MW-8, and MW-17);
- Benzene exceedances ranged from 0.0188 mg/L (MW-6) to 6.92 mg/L (MW-4);
- Benzene was also present in MW-2, MW-6, MW-14, and MW-18 at low concentrations below the 0.01 mg/L standard;
- Toluene was present in MW-8 and MW-17 at concentrations well below the 0.75 mg/L NWQCC standard;
- Ethylbenzene was present in MW-8 at a concentration below the 0.75 mg/L NWQCC standard;
- Total xylenes were detected in MW-4, MW-8, and MW-17 at concentrations well below the 0.62 mg/L NWQCC standard;
- Total Petroleum Hydrocarbons (TPH) were present in three wells (MW-4, MW-8 and MW-17) at concentrations from 4.00 to 9.64 mg/L; and
- Chloride slightly exceeded the 250 mg/L NWQCC standard in MW-21 at a concentration of 263 mg/L.

2.3.2 December 2019 Event

- LNAPL was present in five wells (MW-3, MW-8, MW-9, MW-19, and EW-1);
- Benzene exceeded the 0.01 mg/L standard in four wells (MW-1, MW-4, MW-6, and MW-17), at concentrations ranging from 0.013 mg/L (MW-6) to 11 mg/L (MW-4);
- Benzene was detected in MW-10 below the 0.01 mg/L standard;
- Toluene was present in MW-4 and MW-17 at concentrations well below the 0.75 mg/L NWQCC standard;

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- Ethylbenzene was present in MW-4 and MW-17 at a concentration below the 0.75 mg/l NWQCC standard;
- Total xylenes was present in MW-4 and MW-17 at concentrations below the 0.62 mg/L NWQCC standard;
- Total Petroleum Hydrocarbons (TPH) were present in three wells (MW-1, MW-4, and MW-17) at concentrations ranging from 3.00 to 28.00 mg/L; and
- Chloride was detected in MW-21 at concentrations below the NWQCC standards, and TDS slightly exceeded the 1,000 mg/L NWQCC standard in MW-21 at a concentration of 1,100 mg/L.

3 SUMMARY

Findings of groundwater monitoring events conducted at the Site in 2019 are summarized below:

- Semiannual groundwater monitoring events were conducted in January and December 2019.
- All 26 site wells and were gauged during the semiannual groundwater monitoring events, including the 3 wells associated with the VGSAU #58 site to the South.
- The groundwater flow direction during both events in 2019 were towards the east at a gradient of 0.002 ft/ft during the January 2019 event, and 0.003 ft/ft during the December 2019 event. This is consistent with historical groundwater flow directions.
- LNAPL was present in four wells during the January event, and five wells during the December event.
- The LNAPL plumes are delineated and appear to be stable with no evidence of migration.
- Approximately 97 gallons of LNAPL were recovered during biweekly bailing in 2019. Since 2011, approximately 1,117 gallons of LNAPL have been collectively bailed from the wells. An additional 330 gallons of LNAPL were recovered during two MDPE events performed in 2015.
- Benzene exceeded the 0.01 mg/L standard in five wells during the January 2019 event (MW-1, MW-4, MW-6, MW-8, and MW-17), and four wells during the December 2019 event (MW-1, MW-4, MW-6, and MW-17).
- Total Petroleum Hydrocarbons (TPH) were present in three wells (MW-4, MW-8, and MW-17) during the January 2019 event, and three wells (MW-1, MW-4 and MW-17) during the December 2019 event.
- Chloride slightly exceeded the 250 mg/L NWQCC standard in MW-21 during the January event, and was below the NWQCC standard for the December event.
- TDS slightly exceeded the 1,000 mg/L NWQCC standard in MW-21 during the December event only.

4 2020 ACTIVITIES

The following future actions are proposed for the Site:

- Continue to perform semiannual groundwater monitoring events;

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- Reduce the sampling frequency to an annual schedule in wells where no exceedances have been detected for four semiannual events given the apparent stability of the contaminant plume. These wells include MW-10, MW-12, MW-13, MW-15, MW-16, MW-18, and MW-20 through MW-25, TW-11, TW-13, and TW-20; and
- Continue LNAPL recovery via bailing of the existing LNAPL plume for MW-3, MW-8, MW-9, MW-19, and EW-1, and evaluate LNAPL recovery alternatives for the Site.

TABLES



TABLE 1
SUMMARY OF GROUNDWATER GAUGING DATA 2019
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ³)	Casing Elevation	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL	LNAPL Thickness	Product Removed	Corrected Groundwater Elevation (ft above MSL ²)
						ft toc	ft toc	ft toc	ft	gallons	ft msl
MW-1	3990.85	7 7/8"	122.47 - 142.09	3990.85	01/28/19	140.00	134.36	--	--	--	3856.49
					12/16/19	143.82	134.74	--	--	--	3856.11
MW-2	3991.08	7 7/8"	123.27 - 142.89	3991.08	01/28/19	140.00	134.43	--	--	--	3856.65
					12/16/19	144.56	135.81	--	--	--	3855.27
MW-3	3991.75	7 7/8"	123.72 - 143.34	3991.75	01/28/19	140.00	135.71	134.86	0.85	0.10	3856.68
					3/5/19		135.45	135.42	0.03	--	3856.32
					3/18/19		135.68	135.66	0.02	--	3856.09
					4/5/19		135.78	135.70	0.08	--	3856.03
					4/18/19		135.97	135.85	0.12	--	3855.87
					4/29/19		135.97	135.48	0.49	0.10	3856.15
					5/29/19		136.72	133.26	3.46	0.30	3857.63
					6/10/19		136.76	135.47	1.29	0.20	3855.96
					6/24/19		136.75	135.10	1.65	0.33	3856.24
					7/12/19		137.15	135.40	1.75	0.40	3855.92
					7/22/19		136.94	135.58	1.36	0.50	3855.83
					8/5/19		136.63	135.58	1.05	0.10	3855.91
					8/19/19		136.81	135.63	1.18	0.20	3855.83
					9/6/19		136.60	135.62	0.98	0.10	3855.89
					9/16/19		136.54	135.52	1.02	0.10	3855.98
MW-4	3991.57	7 7/8"	122.47 - 142.09	3991.57	9/30/19		136.58	135.79	0.79	0.10	3855.76
					12/16/19	--	136.74	135.69	1.05	0.15	3855.80
MW-5	3992.12	7 7/8"	125.97 - 142.59	3992.12	01/28/19	140.00	135.81	--	--	--	3855.76
					12/16/19	146.05	136.80	--	--	--	3854.77
MW-6	3991.94	7 7/8"	122.37 - 141.99	3991.94	01/28/19	143.00	135.63	--	--	--	3856.49
					12/16/19	147.41	136.59	--	--	--	3855.53
MW-7	3992.89	7 7/8"	122.17 - 141.79	3992.89	01/28/19	140.00	135.10	--	--	--	3856.84
					12/16/19	146.97	136.10	--	--	--	3855.84
MW-8	3991.27	7 7/8"	123.57 - 143.19	3991.27	01/28/19	140.00	135.49	--	--	--	3857.40
					12/16/19	194.35	136.50	--	--	--	3856.39
MW-9	3990.40	2"	123 - 145	3990.40	01/28/19	140.00	134.59	--	--	--	3856.68
					03/05/19		135.44	134.79	0.65	0.10	3855.83
					3/18/19		135.67	134.64	1.03	0.80	3856.85
					4/5/19		136.39	134.45	1.94	0.80	3856.34
					4/18/19		136.59	134.53	2.06	1.00	3856.23
					4/29/19		136.92	134.49	2.43	0.50	3856.18
					5/29/19		136.39	134.49	1.90	0.40	3856.31
					6/10/19		136.22	134.58	1.64	0.60	3856.28
					6/24/19		135.91	134.54	1.37	0.67	3856.39
					7/12/19		135.97	134.63	1.34	0.50	3856.31
					7/22/19		135.99	134.76	1.23	1.00	3856.20
					8/5/19		135.95	134.72	1.23	0.20	3856.24
					8/19/19		136.11	134.72	1.39	0.30	3856.21
					9/6/19		136.12	134.63	1.49	0.50	3856.27
					9/16/19		135.85	134.86	0.99	0.20	3856.16
MW-9	3990.40	2"	123 - 145	3990.40	9/30/19		135.85	134.80	1.05	0.20	3856.21
					12/16/19		135.46	134.72	0.74	0.20	3856.37
					01/28/19		136.34	133.58	2.76	0.50	3857.01
					03/05/19		137.07	133.93	3.14	1.50	3855.69
					3/18/19	--	--	--	--	--	--
					4/5/19		137.05	133.86	3.19	1.80	3855.75
					4/18/19		137.13	134.01	3.12	1.50	3855.62
					4/29/19		137.12	133.94	3.18	3.00	3855.67
					5/29/19		137.05	133.90	3.15	1.50	3855.72
					6/10/19	--	--	--	--	--	--
					6/24/19		136.99	133.83	3.16	2.00	3855.79
					7/12/19		137.08	133.92	3.16	1.00	-134.70
					7/22/19	--	--	--	--	--	--
					8/5/19		137.17	133.93	3.24	1.10	3855.67
					8/19/19		137.10	133.95	3.15	1.50	3855.67
					9/6/19		137.11	133.89	3.22	2.50	3855.71

TABLE 1
SUMMARY OF GROUNDWATER GAUGING DATA 2019
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ³)	Casing Elevation	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL	LNAPL Thickness	Product Removed	Corrected Groundwater Elevation (ft above MSL ²)
			ft toc	ft msl		ft toc	ft toc	ft toc	ft	gallons	ft msl
MW-9 cont.					9/16/19		137.24	133.95	3.29	2.50	3855.63
					9/30/19		--	--	--	--	--
					12/16/19	--	135.26	134.21	1.05	--	3855.93
MW-10	3992.85	2"	123 - 145	3992.85	01/28/19	145.00	NG	--	--	--	--
					12/16/19	149.15	136.30	--	--	--	3856.55
MW-11					----- well destroyed in 2012 -----						
MW-12	3989.62	2"	123 - 145	3989.62	01/28/19	145.00	133.05	--	--	--	3856.57
					12/16/19	147.30	133.12	--	--	--	3856.50
MW-13	3990.60	2"	123 - 145	3990.60	01/28/19	145.00	134.70	--	--	--	3855.90
					12/16/19	147.30	135.12	--	--	--	3855.48
MW-14	3991.27	2"	123 - 145	3991.27	01/28/19		135.30	--	--	--	3855.97
					12/16/19	150.18	136.05	--	--	--	3855.22
MW-15	3992.42	2"	124 - 146	3992.42	01/28/19	146.00	135.62	--	--	--	3856.80
					12/16/19	149.68	136.69	--	--	--	3855.73
MW-16	3989.17	2"	122 - 145	3989.17	01/29/19	145.00	134.14	--	--	--	3855.03
					12/16/19	146.24	135.45	--	--	--	3853.72
MW-17	3989.92	2"	122 - 145	3989.92	01/28/19	145.00	134.91	--	--	--	3855.01
					12/16/19	149.05	136.02	--	--	--	3853.90
MW-18	3989.96	2"	124.49 - 144.49	3989.96	01/28/19	145.00	134.76	--	--	--	3855.20
					12/16/19	147.91	135.62	--	--	--	3854.34
MW-19	3991.32	2"	124.49 - 144.49	3991.32	01/28/19	145.00	137.06	133.55	3.51	--	3856.90
					03/05/19		137.86	133.90	3.96	1.0	3856.44
					3/18/19		137.75	133.84	3.91	1.0	3856.51
					4/5/19		137.63	153.85	-16.22	2.5	3841.49
					4/18/19		137.64	133.97	3.67	1.50	3856.44
					4/29/19		137.62	133.97	3.65	1.5	3856.44
					5/29/19		137.58	133.90	3.68	1.6	3856.51
					6/10/19		137.59	133.93	3.66	1.5	3856.48
					6/24/19		137.47	133.84	3.63	1.5	3856.58
					7/12/19		137.60	133.91	3.69	2.0	3856.49
					7/22/19		137.73	133.96	3.77	1.0	3856.43
					8/5/19		137.66	133.95	3.71	2.2	3856.45
					8/19/19		137.18	133.97	3.21	2.0	3856.55
					9/6/19		137.63	133.92	3.71	1.5	3856.48
					9/16/19		137.72	133.97	3.75	2.5	3856.42
					9/30/19		137.74	134.01	3.73	1.0	3856.38
					12/16/19	--	138.04	134.22	3.82	1.0	3856.15
MW-20	3992.62	2"	124.49 - 144.49	3992.62	01/28/19	145.00	135.25	--	--	--	3857.37
					12/16/19	148.60	135.91	--	--	--	3856.71
MW-21	3993.71	2"	124.49 - 144.49	3993.71	01/28/19	145.00	136.47	--	--	--	3857.24
					12/16/19	149.55	137.39	--	--	--	3856.32
MW-22	3989.01	2"	115 - 145	3989.01	01/28/19	145.00	134.76	--	--	--	3854.25
					12/16/19	151.41	135.99	--	--	--	3853.02
MW-23	3989.77	2"	115 - 145	3989.77	01/29/19	145.00	135.02	--	--	--	3854.75
					12/16/19	152.04	136.70	--	--	--	3853.07
MW-24	3997.05	2"	115 - 145	3997.05	01/28/19	145.00	137.63	--	--	--	3859.42
					12/16/19	150.71	138.27	--	--	--	3858.78
MW-25	3991.88	2"	120 - 150	3991.88	01/28/19	150.00	131.82	--	--	--	3860.06
					12/16/19	152.10	132.22	--	--	--	3859.66
MW-26	3991.13	2"	120 - 150	3991.13	01/28/19	150.00	134.20	--	--	--	3856.93
					12/16/19	153.84	134.56	--	--	--	3856.57
EW-1	3987.79	4"	120 - 145	3987.79	01/28/19	145.00	133.50	130.09	3.41	--	3856.85
					03/05/19		134.03	130.47	3.56	3.50	3856.44
					3/18/19		133.99	130.39	3.60	3.50	3856.51
					4/5/19		133.94	130.39	3.55	3.00	3856.52
					4/18/19		133.91	130.51	3.40	3.50	3856.44
					4/29/19		133.86	130.47	3.39	3.50	3856.48
					5/29/19		133.87	130.45	3.42	2.10	3856.49
					6/10/19		133.83	130.50	3.33	1.25	3856.46
					6/24/19		133.62	130.39	3.23	0.50	3856.60
					7/12/19		133.87	130.42	3.45	3.30	3856.51
					7/22/19		133.92	130.53	3.39	2.00	3856.42
					8/5/19		133.91	130.46	3.45	1.30	3856.47
					8/19/19		133.97	130.53	3.44	2.50	3856.41

TABLE 1
SUMMARY OF GROUNDWATER GAUGING DATA 2019
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ³) <i>ft toc</i>	Casing Elevation <i>ft msl</i>	Date	Total Depth (ft below TOC) <i>ft toc</i>	Depth to Water (ft below TOC) <i>ft toc</i>	Depth to LNAPL <i>ft toc</i>	LNAPL Thickness <i>ft</i>	Product Removed <i>gallons</i>	Corrected Groundwater Elevation (ft above MSL ²) <i>ft msl</i>
EW-1 cont.					9/6/19		133.92	130.49	3.43	2.00	3856.45
					9/16/19		133.95	130.54	3.41	3.50	3856.40
					9/30/19		133.97	130.55	3.42	2.80	3856.39
					12/16/19	--	134.31	130.72	3.59	2.60	3856.18
TW-11	3989.11			3989.11	01/28/19		131.50	--	--	--	3857.61
					12/16/19	194.51	130.96	--	--	--	3858.15
TW-13	3988.73			3988.73	01/28/19		133.55	--	--	--	3855.18
					12/16/19	182.60	133.82	--	--	--	3854.91
TW-20	3988.40			3988.40	01/28/19		133.70	--	--	--	3854.70
					12/16/19	200+	134.13	--	--	--	3854.27

NOTES:

ft msl¹ indicates feet above mean sea level.

ft toc³ indicates feet below top of casing.

'LNAPL' indicates light non-aqueous-phase liquid.

'--' indicates not applicable (e.g., no data or '0').

Water elevations were corrected using an estimated LNAPL specific gravity of 0.752.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - 2019
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standards,		0.01	0.75	0.75	0.62	--	--	--	250	1000
mg/L										
MW-1	1/29/19	2.02	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/17/19	0.84	<0.00020	<0.00021	<0.00037	3.0	<1.50	3.0	--	--
MW-2	1/29/19	0.00610	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/20/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-3	1/29/19	----- LNAPL -----								
	12/19/19	----- LNAPL -----								
MW-4	1/29/19	6.92	<0.00020	0.00228	0.00113	9.64	<1.50	9.64	--	--
	12/19/19	11.0	0.0040	0.044	0.030 J	28.0	<1.50	28.0	--	--
Dup	12/19/19	12.0	0.0040	0.044	0.030 J	33.0	<1.50	33.0	--	--
MW-5	1/31/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-6	1/29/19	0.0188	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/20/19	0.0130	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-7	1/29/19	0.00061	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/20/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-8	1/29/19	1.67	0.0147	0.0618	0.0886	6.77	1.02	7.79	---	---
	12/16/19	----- LNAPL -----								
MW-9	1/29/19	----- LNAPL -----								
	12/19/19	----- LNAPL -----								
MW-10	1/29/19	NS	NS	NS	NS	NS	NS	NS	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-12	1/31/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
Dup	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-13	1/30/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.000237	<1.50	<1.50	<1.50	--	--
MW-14	1/30/19	0.00904	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/19/19	0.0010	<0.00020	<0.00021	0.00080 J	<1.50	<1.50	<1.50	--	--
MW-15	1/30/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-16	2/1/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-17	1/31/19	2.22	0.00041	<0.00020	0.00071	4.00	<1.50	4.00	--	--
	12/19/19	6.90	0.00040	0.0076 J	0.016 J	23.0	<1.50	23.0	--	--
MW-18	1/29/19	0.00043	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-19	1/29/19	----- LNAPL -----								
	12/19/19	----- LNAPL -----								
MW-20	1/30/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-21	1/31/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	263	972
	12/17/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	240	1100
MW-22	2/1/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-23	2/1/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-24	1/30/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/17/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-25	1/30/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
MW-26	1/30/19	0.00112	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/17/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - 2019
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standards, mg/L		0.01	0.75	0.75	0.62	--	--	--	250	1000
EW-1	1/29/19	----- LNAPL -----								
	12/19/19	----- LNAPL -----								
TW-11	1/31/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
TW-13	1/29/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--
TW-20	1/30/19	<0.00020	<0.00020	<0.00020	<0.00020	<1.50	<1.50	<1.50	--	--
	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	--	--

NOTES:

NMWQCC - New Mexico Water Quality Control Commission

'mg/L' indicates milligrams per liter

Bold cells indicate that concentration exceeds NMWQCC standard.

'LNAPL' indicates Light Non-Aqueous Phase Liquids.

'J' indicates an estimated concentration detected below the quantitation limit.

'NS' indicates Not sampled

'--' indicates Not Analyzed or Not Applicable

U Indicates the analyte was analyzed for but not detected

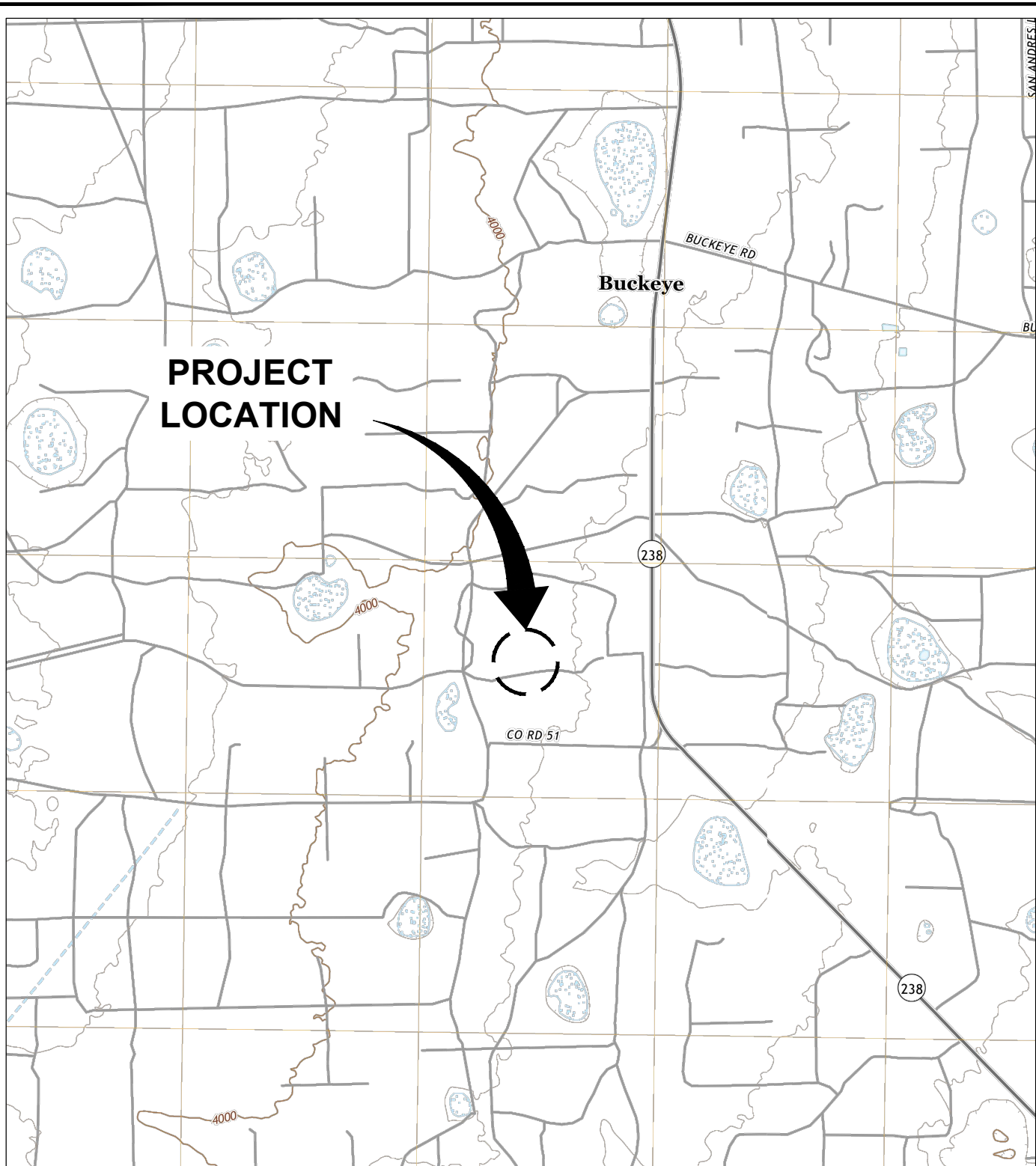
J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

B Compound was found in the blank and sample

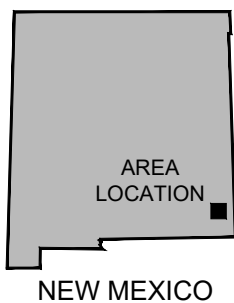
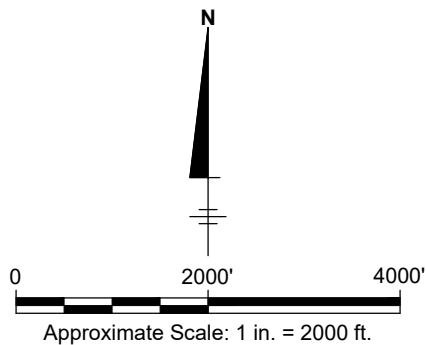
* RPD of the LCS and LCSD exceeds the control limits

FIGURES



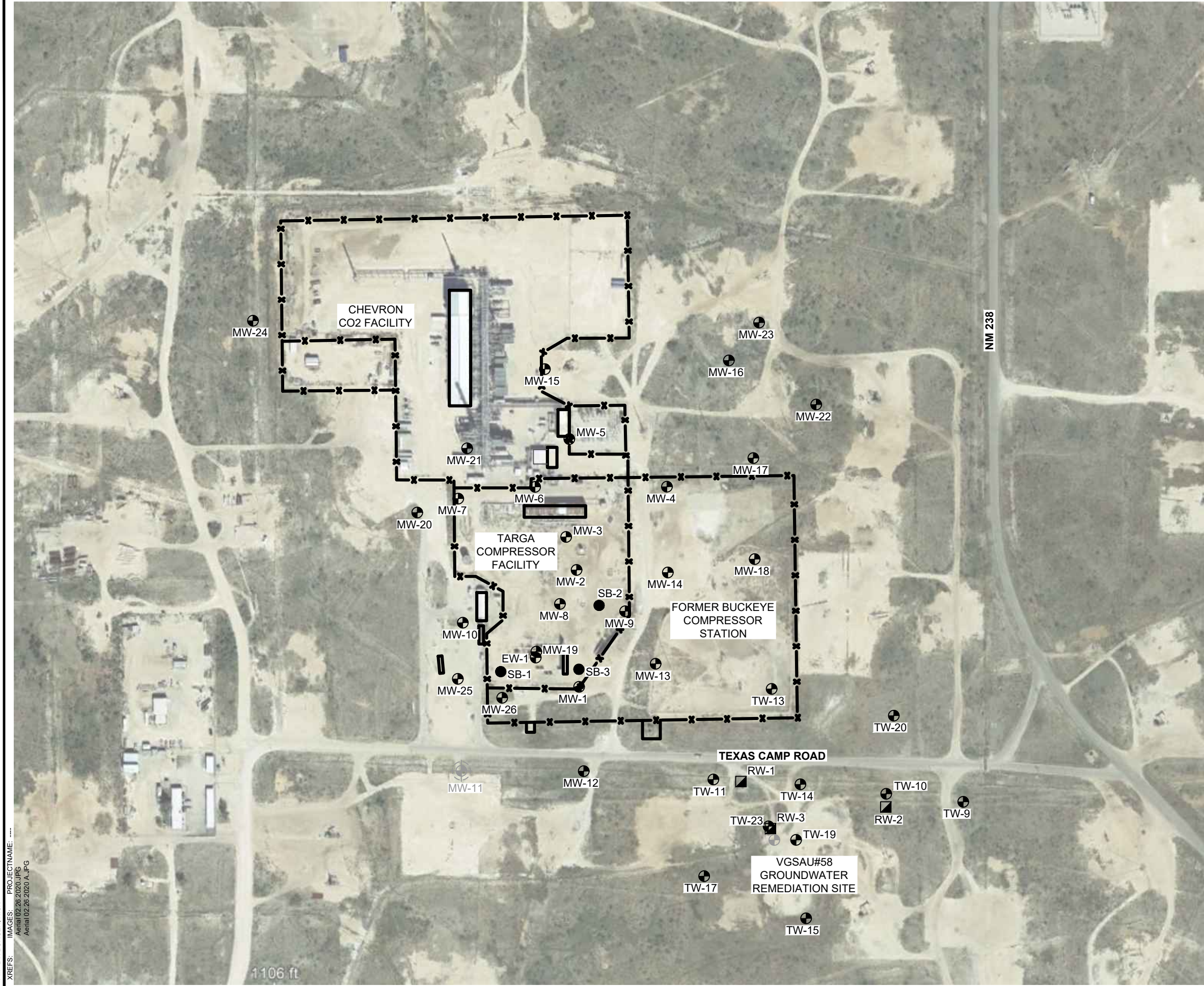


REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., BUCKEYE AND LOVINGTON SW, NEW MEXICO, 2020, NAD83.



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP



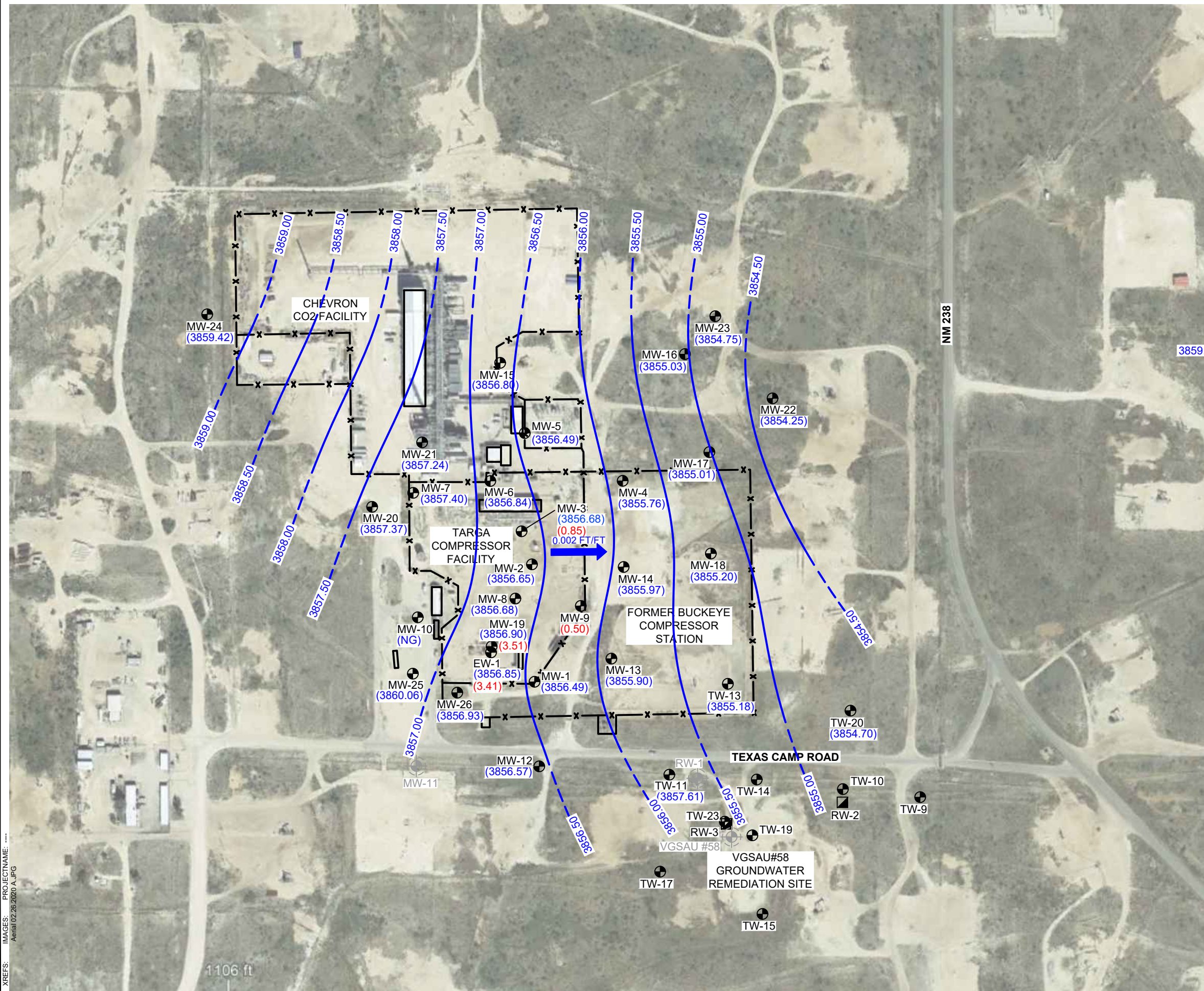
- LEGEND:**
- FENCE LINE
 - MW-1 MONITORING WELL LOCATION
 - RW-1 RECOVERY WELL LOCATION
 - SB-1 SOIL BORING (2015 ASSESSMENT)
 - ABANDONED (PLUGGED) WELL LOCATION
 - MW-11 DESTROYED WELL LOCATION

CHEVRON ENVIRONMENT MANAGEMENT COMPANY
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

SITE MAP

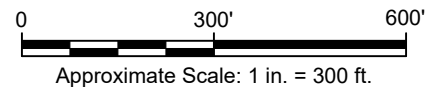
ARCADIS Design & Consultancy for natural and built assets

FIGURE
2



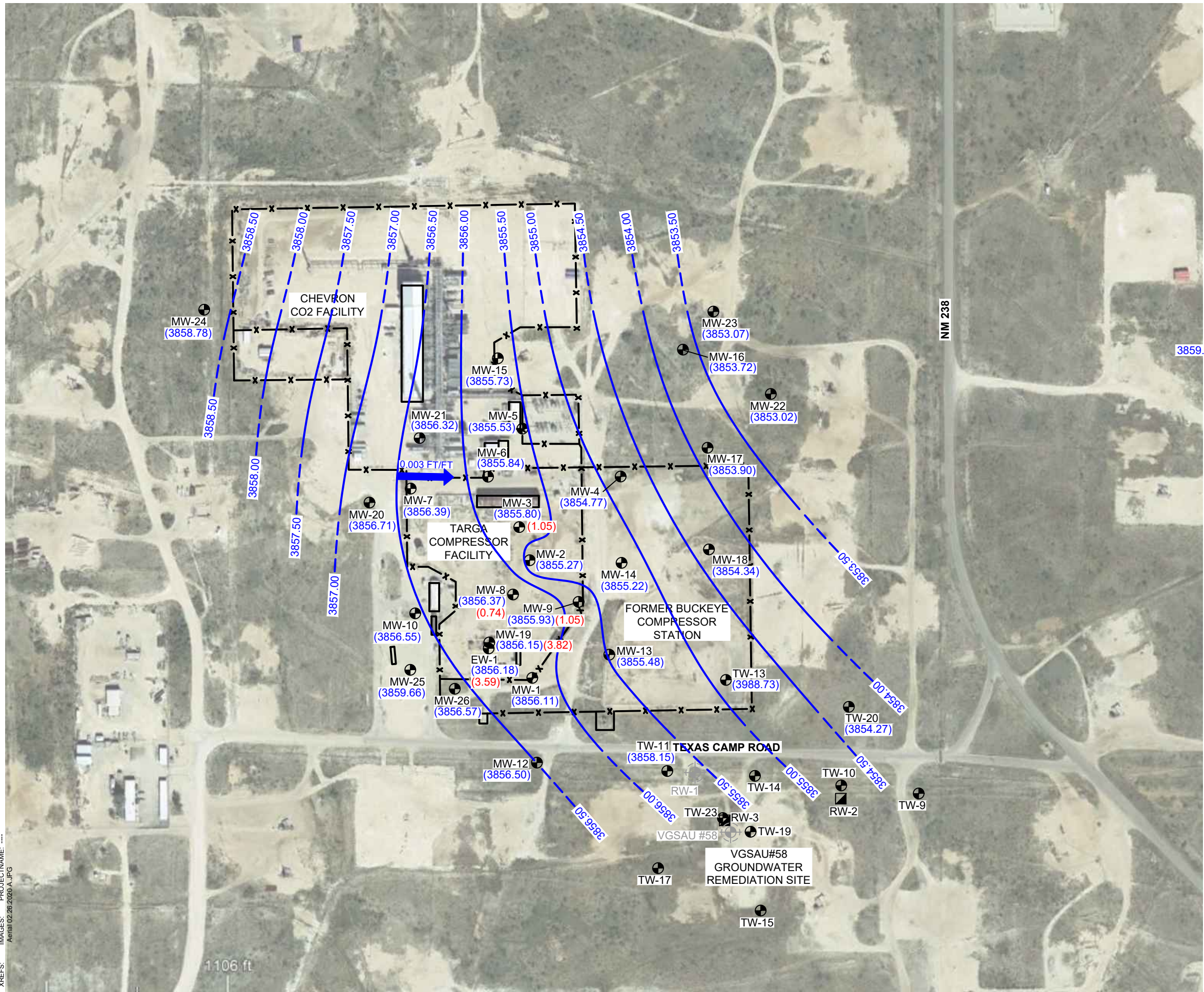
- LEGEND:**
- x — x — FENCE LINE
 - MW-1 ● MONITORING WELL LOCATION
 - RW-1 ▣ RECOVERY WELL LOCATION
 - ⊕ ABANDONED (PLUGGED) WELL LOCATION
 - MW-11 ⊕ DESTROYED WELL LOCATION
 - (3859.42) GROUNDWATER ELEVATION IN FEET (FT)
 - 3859.00 --- GROUNDWATER ELEVATION CONTOUR (INTERVAL = 0.5 FT)
 - ← APPROXIMATE DIRECTION OF GROUNDWATER FLOW
 - 0.002 FT/FT APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)
 - NG NOT GAUGED
 - (0.85) LNAPL THICKNESS IN FEET (FT)

- NOTES:**
- WELLS TW-11, AND MW-25 WERE NOT USED DUE TO ANOMALOUS DATA.
 - GROUNDWATER ELEVATIONS ARE FROM MEASUREMENTS OBTAINED ON JANUARY 29 - FEBRUARY 1, 2019.



CHEVRON ENVIRONMENT MANAGEMENT COMPANY
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

POTENTIOMETRIC SURFACE MAP JANUARY 2019



LEGEND:

— x — x —	FENCE LINE
MW-1	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
⊕	ABANDONED (PLUGGED) WELL LOCATION
MW-11	DESTROYED WELL LOCATION
(3858.78)	GROUNDWATER ELEVATION IN FEET (FT)
3859.00	GROUNDWATER ELEVATION CONTOUR (INTERVAL = 0.5 FT)
←	APPROXIMATE DIRECTION OF GROUNDWATER FLOW
0.003 FT/FT	APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)
(3.59)	LNAPL THICKNES IN FEET (FT)

NOTES:

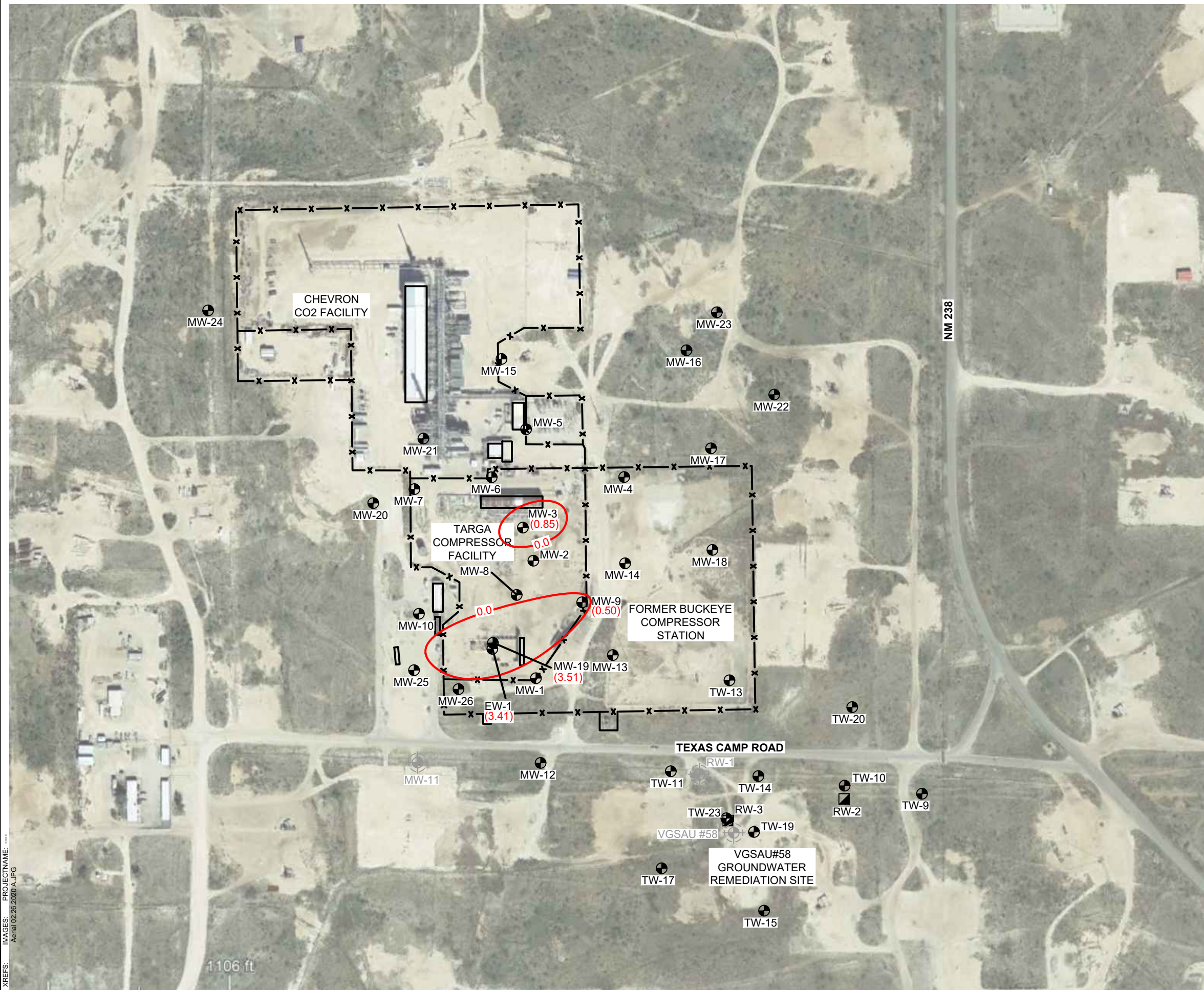
1. WELLS TW-11, TW-13, AND MW-25 WERE NOT USED DUE TO ANOMALOUS DATA.
2. GROUNDWATER ELEVATIONS ARE FROM MEASUREMENTS OBTAINED ON DECEMBER 16, 2019.

0 300' 600'

Approximate Scale: 1 in. = 300 ft.

CHEVRON ENVIRONMENT MANAGEMENT COMPANY BUCKEYE COMPRESSOR STATION LEA COUNTY, NEW MEXICO	
POTENTIOMETRIC SURFACE MAP DECEMBER 2019	
 ARCADIS Design & Consultancy for natural and built assets	FIGURE 4

CITY: (Ref) DIV: (Group) (Ref) DB: (Ref) LD: (Ref) PIC: (Ref) PM: (Ref) TM: (Ref) LVR: (Ref) ON: (Ref) OFF: (Ref)
C:\Users\hunger\BIM-360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\Buckeye Compressor Station\2020\3004276101-DWG\GWM-2020-FG5-LNAPL-FEB2019.dwg LAYOUT: 5 SAVED: 4/8/2020 3:44 PM ACADVER: 23.05 (LMS TECH) PAGES: 5 PLOT: PLOTSTYLETABLE: PLOTTED: 4/8/2020 3:44 PM BY: BURGER, NICK
XREFS: IMAGES: PROJECTNAME: Aerial02.26.2020 A.jpg



LEGEND:

- FENCE LINE
- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- ABANDONED (PLUGGED) WELL LOCATION
- DESTROYED WELL LOCATION
- LNAPL
- LNAPL THICKNESS IN FEET

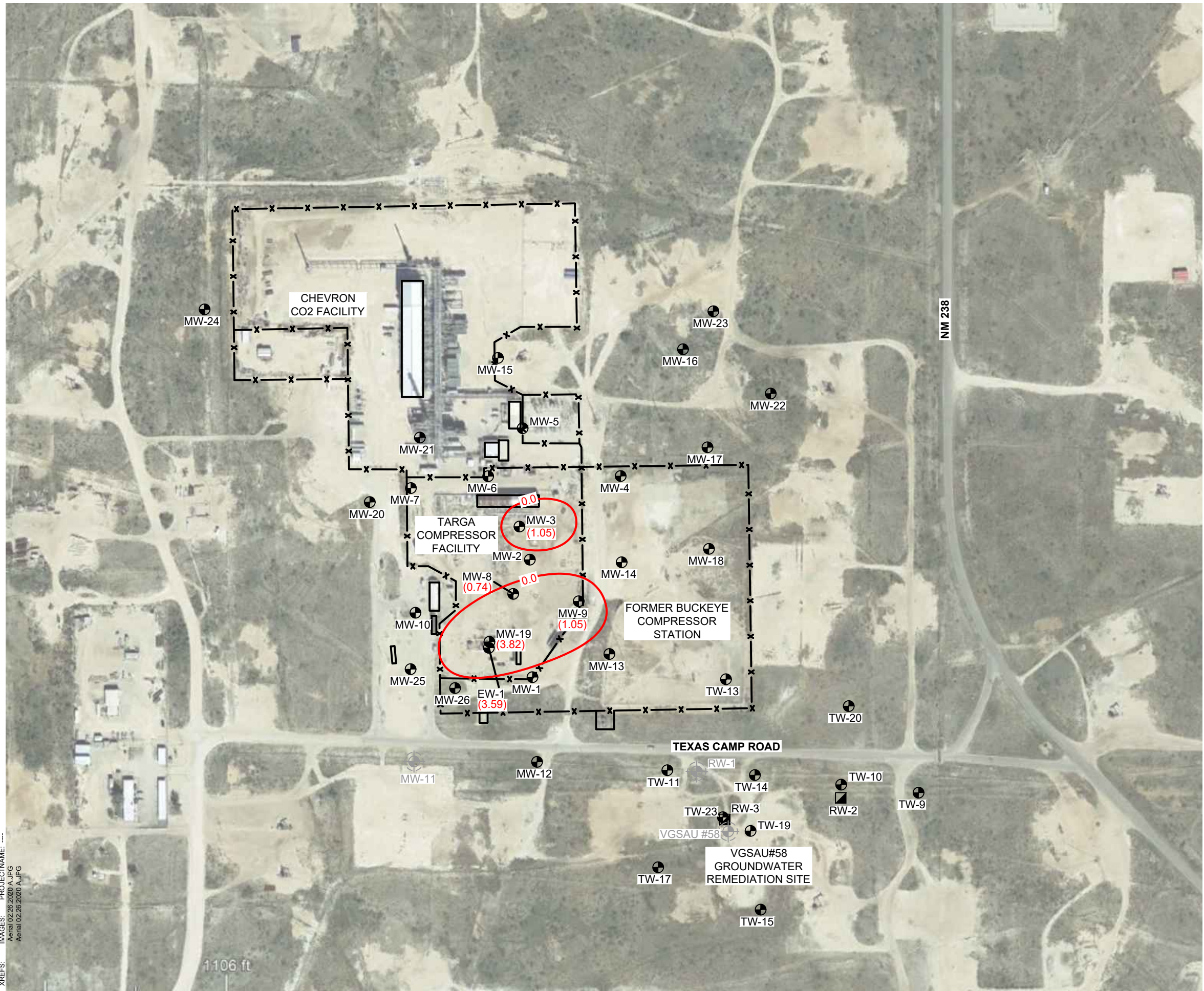
NOTES:

- LNAPL MEASUREMENTS OBTAINED ON JANUARY 29 - FEBRUARY 1, 2019.

CHEVRON ENVIRONMENT MANAGEMENT COMPANY
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

LNAPL DISTRIBUTION MAP
JANUARY 2019

CITY:(Reqd) DIV/GRPUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LVR:(Opt)ON="OFF=REF"
C:\Users\burgin\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\Buckeye Compressor Station\2020\3004276\101-DWG\GWM-2020-FIG6-LNAPL-DEC2019.dwg LAYOUT: 6 SAVED: 4/8/2020 3:48 PM ACADVER: 23.05 (LMS TECH) PAGES: 6 PLOTTED: 4/8/2020 3:48 PM BY: BURGNER NICK
XREFS: IMAGES: PROJECTNAME: ---
Aerial 02.26.2020 A.JPG
Aerial 02.26.2020 A.JPG



LEGEND:

- x — x — FENCE LINE
- MW-1 ● MONITORING WELL LOCATION
- RW-1 ▣ RECOVERY WELL LOCATION
- ABANDONED (PLUGGED) WELL LOCATION
- MW-11+ ● DESTROYED WELL LOCATION
- LNAPL LIGHT NON-AQUEOUS PHASE LIQUID
- LNAPL CONTOUR
- (3.82) LNAPL THICKNESS IN FEET

NOTES:

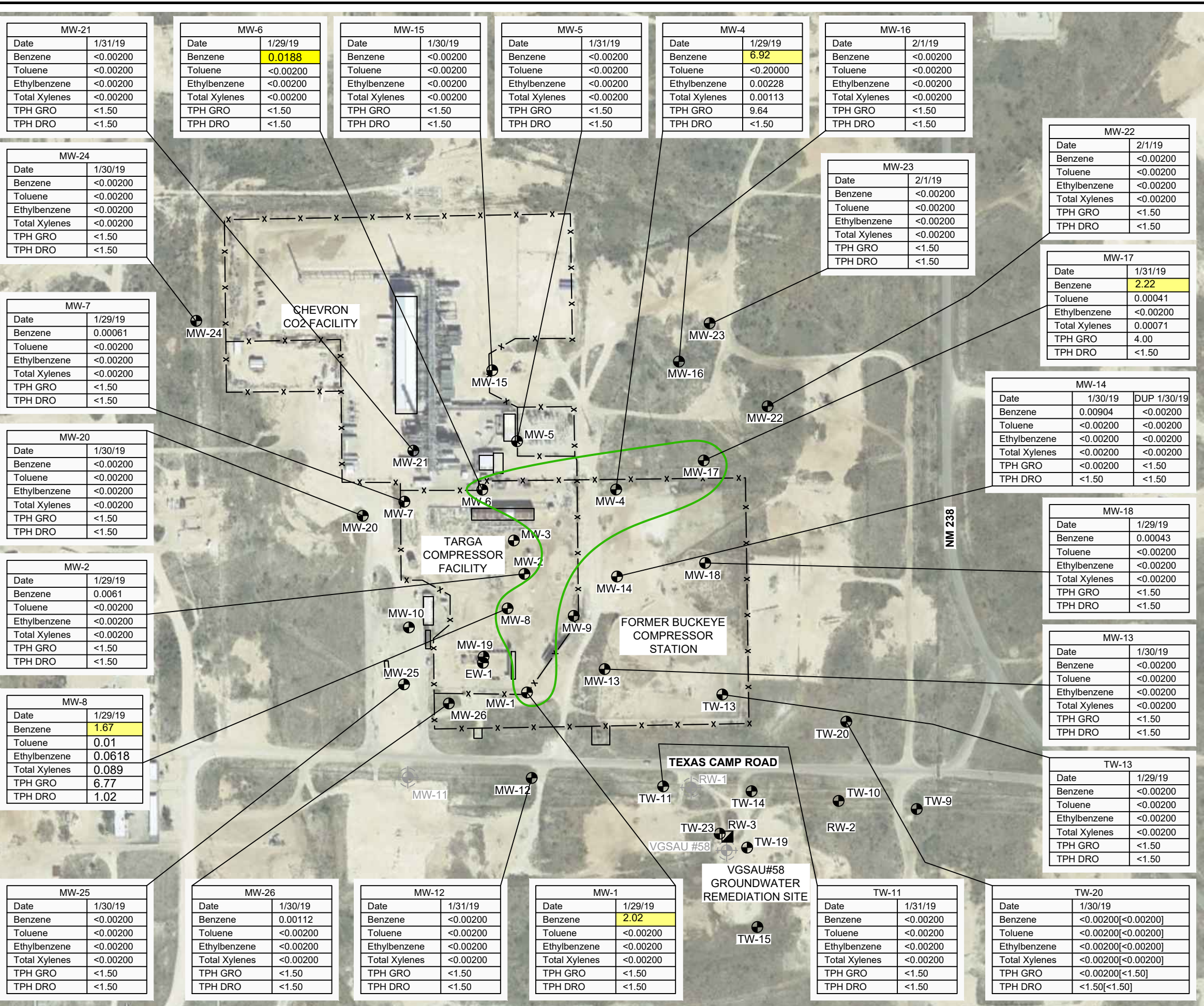
1. LNAPL MEASUREMENTS OBTAINED ON DECEMBER 16, 2019.

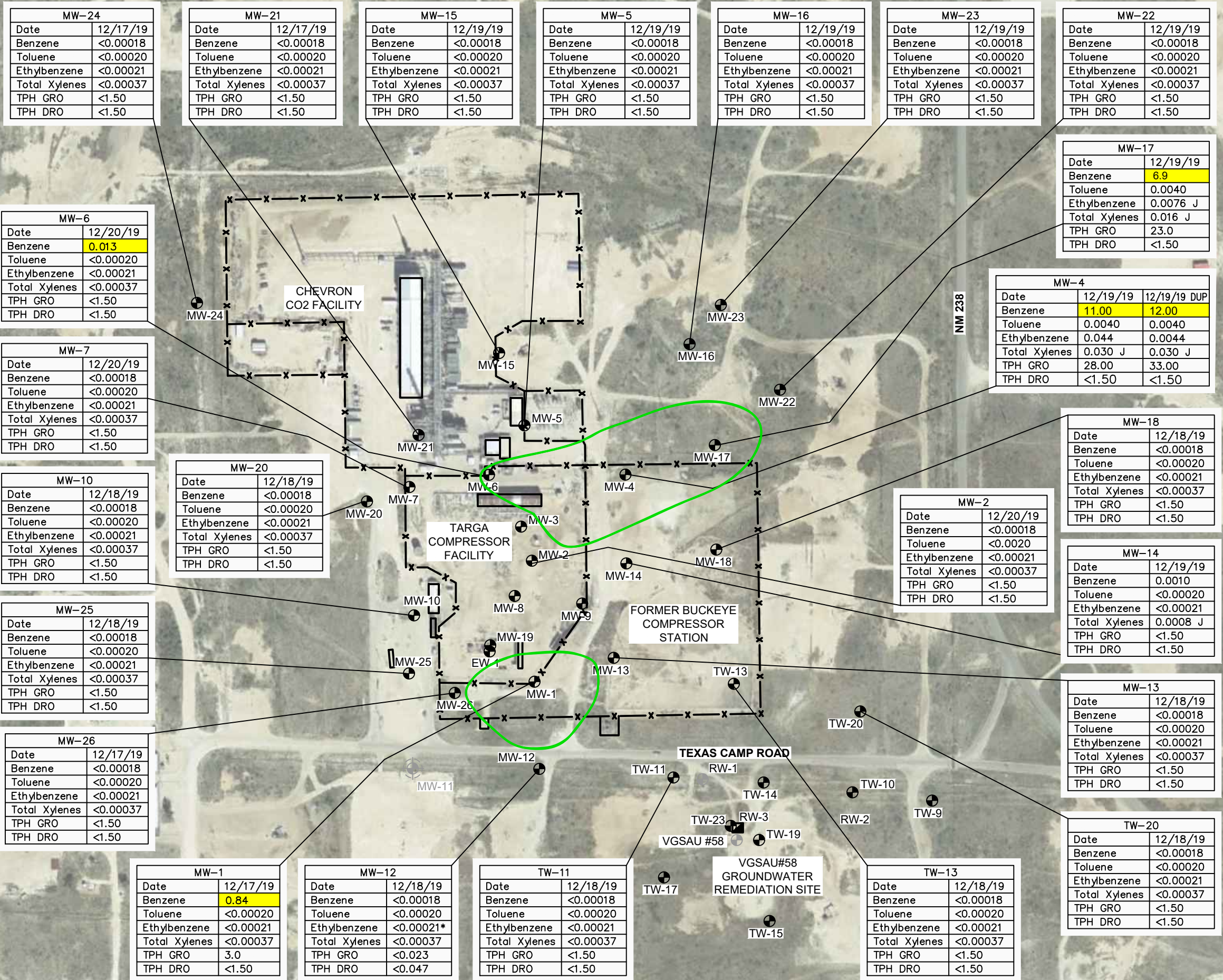
0 300' 600'
Approximate Scale: 1 in. = 300 ft.

CHEVRON ENVIRONMENT MANAGEMENT COMPANY
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

LNAPL DISTRIBUTION MAP
DECEMBER 2019







LEGEND:

— x — x — FENCE LINE

⊕ MONITORING WELL LOCATION

⊞ RECOVERY WELL LOCATION

⊕ ABANDONED (PLUGGED) WELL LOCATION

⊕ DESTROYED WELL LOCATION

ESTIMATED EXTENT OF DISSOLVED PHASE PLUME EXCEEDING NMWQCC STANDARDS

B DISSOLVED BENZENE (mg/L)

T DISSOLVED TOLUENE (mg/L)

E DISSOLVED ETHYLBENZENE (mg/L)

X DISSOLVED XYLENES (mg/L)

TPH-GRO DISSOLVED TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE ORGANICS (C6-C10) (mg/L)

TPH-DRO DISSOLVED TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE ORGANICS (C10-C28) (mg/L)

LNAPL LIGHT NON-AQUEOUS PHASE LIQUID

NS NOT SAMPLED

Analyte	NMWQCC Standards for Groundwater (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62
TPH GRO	No Standard
TPH DRO	No Standard

0 300' 600'

Approximate Scale: 1 in. = 300 ft.

APPENDIX A

Site Background



REGULATORY BACKGROUND

The Site is located within the gas compression facility currently owned and operated by Targa Resources, LLC. The facility was originally owned by Texaco Exploration and Production, Inc. (Texaco). Previous investigations were conducted by Texaco to identify the source and extent of groundwater impacts observed in the non-potable water well at the Site. These investigations have included the advancement of 17 soil borings and installation of 24 monitoring wells from 2002 to 2007. LNAPL was first discovered in May 2008 within monitoring well MW-19, which is located proximate to a former “slop oil” tank. LNAPL has not been observed in MW-1 or MW-13 (located down gradient from MW-19). The primary chemical of concern (COC) in groundwater was identified as benzene. Fluid levels and concentrations of dissolved benzene, toluene, ethylbenzene, and total xylenes (BTEX) have been monitored on an annual or semi-annual basis since the monitoring wells were installed.

In order to determine the source of LNAPL in MW 19 and dissolved benzene in monitoring well MW 4, Stantec Inc. installed extraction well EW-1 and drilled five soil borings in May 2010. Soil results from borings SB-3, SB-4 and EW-1 (located adjacent to MW-19) exhibited BTEX and/or total petroleum hydrocarbons (TPH) concentrations at depths extending from 124 to 128 feet below ground surface (ft. bgs) that exceeded applicable New Mexico Oil Conservation Division (NMOCD) action levels. LNAPL has been present in EW-1 since its installation adjacent to MW-19 in 2010. LNAPL subsequently appeared in MW-8 and MW-9 in 2011, and in MW-3 in 2012.

GHD Services, Inc. (GHD) managed the project beginning in November 2010 and has conducted semiannual monitoring events since 2011. Arcadis assumed responsibility of the semiannual monitoring events in 2019. As part of free product recovery efforts, LNAPL has been bailed from MW-8, MW-9, MW-19, and EW-1 since 2011. LNAPL from MW-3 has been bailed since 2017. An approximate biweekly bailing schedule was implemented in 2012 and has continued through 2019.

Although LNAPL thicknesses have fluctuated in wells, there has been no evidence of additional LNAPL migration since the appearance of LNAPL in MW-3 during 2012. Prior results do not indicate surface or shallow subsurface soil impacts in wells containing LNAPL.

The potential source of LNAPL in MW-8 and MW-9 was further evaluated in March and April 2015, and the results were presented in the 2015 Annual Groundwater Monitoring Report dated March 2016. The investigation involved five soil borings which were advanced to depths of 130 ft. bgs with the objective to further assess the possible source of the LNAPL. The results indicated no hydrocarbon impacts in soil down to the total depths of the borings. As such, the source of LNAPL was not identified. Two of the soil borings were deepened to 150 ft. bgs and converted to monitoring wells (MW-25 and MW-26).

The combined recoveries during two mobile dual-phase extraction (MDPE) events performed in August and December 2015 were approximately 425 gallons of LNAPL and 14,442 gallons of water. The August event resulted in the total LNAPL recovery of 210 gallons (liquid and vapor) followed by 215 gallons in the December event. Although these results demonstrated that MDPE was a viable LNAPL recovery method for the Site, it was determined that biweekly hand bailing would continue due to the lower costs and apparent stability of the LNAPL and dissolved phase plumes.

Analysis of chloride in groundwater was discontinued after 2012 in all wells except MW-21 because the historical results indicated that it was not a concern in other wells. Subsequent chloride results in MW-22 indicated an isolated exceedance in October 2014 and two consecutive exceedances during 2017.

In July 2017, LNAPL was sampled from MW-3 and MW-19 and analyzed by PIANO (Paraffins, Isoparaffins, Aromatics, Napthenes, and Olefins) analysis. Conclusions from results of the analysis of the two samples determined they were both of nearly identical compositional configuration, carbon distribution, and compositional make up (i.e., believed from the same source). Both samples were also determined relatively fresh with minimal weathering.

REGULATORY FRAMEWORK

The NMOCD provides guidance for remediation of contaminants of oil field wastes or products in Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993). These guidelines require remediation of groundwater to the human health standards of the New Mexico Water Quality Control Commission (NMWQCC) set forth in New Mexico Administrative Code 20.6.2.3103. NMWQCC standards for BTEX are listed below, and do not include TPH.

Analyte	NMWQCC Standard for Groundwater (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62

Note: mg/L = milligrams per liter

GROUNDWATER SAMPLING AND ANALYSIS

The Site currently includes 26 active monitoring wells (MW-1 through MW-10, MW-12 through MW-26, and EW-1) (Figure 2). Semiannual groundwater monitoring events conducted in 2019 occurred from January 29 through February 1 and December 16-20. Monitoring well MW-11, located southwest of the dissolved phase plume, has not been gauged or sampled since October 2008 because the casing collapsed in late 2008 or early 2009. The consent of the NMOCD to exclude MW-11 as a monitoring well was requested at the time. Subsequent pipeline replacement activities in late 2012 destroyed MW-11, as was noted in the 2013 Annual Groundwater Monitoring Report dated March 14, 2014. The dissolved-phase plume was already delineated in the area north and east of MW-11 as evidenced by monitoring results in MW-10 and MW-12 (and subsequently by MW-25 and MW-26).

Wells TW-11, TW-13 and TW-20, associated with the adjacent Vacuum Grayburg San Andres Unit No. 58 (VGSAU #58) site (Buckeye Vacuum Field Unit) located south of Texas Camp Road (Figure 2), are included in the groundwater monitoring program in order to monitor dissolved phase contaminants to the southeast of the Site. Based on historical analytical results of on-site well MW-13, the southeastern side of the dissolved phase plume has remained delineated within the facility area.

GEOLOGY/HYDROGEOLOGY ASSESSMENT

Site Setting

The Buckeye Compressor Station is located immediately north of Texas Camp Road, approximately one mile southwest of Buckeye, Lea County, New Mexico. The general vicinity is shown on Figure 1 and Site details are presented on Figure 2. The Site location is in Section 36, Township 17 South, Range 34 East at geographic coordinates 32° 47' 3.93"N, 103° 30' 30.08"W.

Land in the vicinity of the Site is utilized primarily for livestock ranching and oil and gas production, and production and has areas of undeveloped rangeland vegetated with indigenous grass. An injection well facility, operated by Resaca Resources, LLC (Resaca), is located adjacent to the Site. No active Chevron U.S.A. Inc. (Chevron) operations are present in the area.

Regional Geologic Conditions

The region is characterized by a surface cover of up to 200 feet of unconsolidated to semi-lithified sediments of the Ogallala Formation consisting of sand, clay, and fluvial gravel. The upper portion of the Ogallala Formation has been heavily cemented by caliche. The Tertiary-aged sediments are underlain by the Triassic-aged Dockum Group shale ("red beds").

Site Geology

The subsurface stratigraphy typically included the following:

- A thick sand (0 to 163 feet) layer of unconsolidated fine sand containing trace caliche nodules. Sand grains gradually increasing to fine to medium grained at 140 feet,
- A fine sand layer typically ranging from 3 feet to 30 feet,
- A sandy clay layer typically ranging from 2 feet to 11 feet directly above the upper Dockum "redbeds", and
- Red and gray weathered shale and mudstone "redbeds" of the Triassic Dockum Group that form the underlying confining layer.

Hydrogeologic Conditions

Regional groundwater flow in the Ogallala Aquifer is controlled by the slope of the land surface to the south with localized eastward flow into the valley of Monument Draw. The aquifer typically behaves as an unconfined aquifer. Monument Draw is an intermittent stream that contains water only after heavy rains (Texas Water Development Board [TWDB], 2008)¹. The Dockum Group Shale is considered the underlying aquitard for the Ogallala Aquifer.

APPENDIX B

Field Methodology



FIELD METHODOLOGY

Groundwater Sampling

Prior to sampling, static fluid levels were measured to the nearest hundredth of a foot with an electronic oil-water interface probe on the first day of each monitoring event. The fluid levels were measured from the permanent reference point on the top of the casing in each well, or from the north side of the top of the casing where no permanent reference point had been marked.

Low flow purging techniques were used prior to sampling. During purging, the flow rate was adjusted to approximately 100 milliliters per minute in order to achieve minimal drawdown from the static water level. Temperature, oxidation reduction potential (ORP), pH, conductivity, and dissolved oxygen (DO) were monitored during purging. Purging continued until at least three of these parameters remained stabilized within a 10 percent range during three consecutive measurements. A sample was then collected in a laboratory-supplied container, labeled, and chilled on ice in an insulated cooler to maintain a temperature of 40°F (4°C) or lower. Field equipment was decontaminated with a Liquinox™ wash and distilled water rinse before beginning field activities and between wells.

Groundwater samples collected during the January/ February event were submitted to Xenco Laboratories in Midland, Texas for analysis of BTEX by EPA Method 8021B and TPH diesel range organics (DRO)/ gasoline range organics (GRO) by Method SW8015B. MW-21 was additionally analyzed for chloride by EPA Method 300/300.1 and for total dissolved solids (TDS) by Method SM2540C. Groundwater samples collected during the December event were submitted to TestAmerica Laboratories in Houston, Texas for analysis of BTEX by EPA Method 8260B, and TPH diesel range organics (DRO)/ gasoline range organics (GRO) by Method 8015B. MW-21 was additionally analyzed for chloride by EPA Method 300/300.1, and for TDS by Method 2540C. Chain of custody documentation was maintained throughout the sample collection and delivery process. Analyses were completed within required holding times.

APPENDIX C

Cumulative Summary of Groundwater Potentiometric Elevation Data



APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-1	06/19/02	7 7/8"	122.47 - 142.09	140	3990.85	132.49	3858.36	--	--	--	--
MW-1	07/29/02	7 7/8 "	122.47 - 142.09	140	3990.85	132.55	3858.30	--	--	--	--
MW-1	10/08/02	7 7/8 "	122.47 - 142.09	140	3990.85	132.26	3858.59	--	--	--	--
MW-1	08/11/03	7 7/8 "	122.47 - 142.09	140	3990.85	130.33	3860.52	--	--	--	--
MW-1	02/16/05	7 7/8 "	122.47 - 142.09	140	3990.85	129.06	3861.79	--	--	--	--
MW-1	04/07/06	7 7/8 "	122.47 - 142.09	140	3990.85	130.22	3860.63	--	--	--	--
MW-1	06/29/06	7 7/8 "	122.47 - 142.09	140	3990.85	----- not gauged -----				--	--
MW-1	10/12/06	7 7/8 "	122.47 - 142.09	140	3990.85	130.37	3860.48	--	--	--	--
MW-1	04/26/07	7 7/8 "	122.47 - 142.09	140	3990.85	130.26	3860.59	--	--	--	--
MW-1	10/18/07	7 7/8 "	122.47 - 142.09	140	3990.85	130.24	3860.61	--	--	--	--
MW-1	05/21/08	7 7/8 "	122.47 - 142.09	140	3990.85	130.22	3860.63	--	--	--	--
MW-1	10/16/08	7 7/8 "	122.47 - 142.09	140	3990.85	130.38	3860.47	--	--	--	--
MW-1	04/09/09	7 7/8 "	122.47 - 142.09	140	3990.85	130.82	3860.03	--	--	--	--
MW-1	09/29/09	7 7/8 "	122.47 - 142.09	140	3990.85	131.30	3859.55	--	--	--	--
MW-1	04/05/10	7 7/8 "	122.47 - 142.09	140	3990.85	131.56	3859.29	--	--	--	--
MW-1	10/04/10	7 7/8 "	122.47 - 142.09	140	3990.85	131.73	3859.12	--	--	--	--
MW-1	04/18/11	7 7/8 "	122.47 - 142.09	140	3990.85	132.15	3858.70	--	--	--	--
MW-1	10/18/11	7 7/8 "	122.47 - 142.09	140	3990.85	132.23	3858.62	--	--	--	--
MW-1	04/23/12	7 7/8 "	122.47 - 142.09	140	3990.85	132.08	3858.77	--	--	--	--
MW-1	11/05/12	7 7/8 "	122.47 - 142.09	140	3990.85	131.74	3859.11	--	--	--	--
MW-1	04/23/13	7 7/8 "	122.47 - 142.09	140	3990.85	131.80	3859.05	--	--	--	--
MW-1	10/21/13	7 7/8 "	122.47 - 142.09	140	3990.85	132.97	3857.88	--	--	--	--
MW-1	02/11/14	7 7/8 "	122.47 - 142.09	140	3990.85	132.76	3858.09	--	--	--	--
MW-1	10/27/14	7 7/8 "	122.47 - 142.09	140	3990.85	133.56	3857.29	--	--	--	--
MW-1	02/24/15	7 7/8 "	122.47 - 142.09	140	3990.85	133.55	3857.30	--	--	--	--
MW-1	10/26/15	7 7/8 "	122.47 - 142.09	140	3990.85	133.88	3856.97	--	--	--	--
MW-1	02/29/16	7 7/8 "	122.47 - 142.09	140	3990.85	134.31	3856.54	--	--	--	--
MW-1	08/22/16	7 7/8 "	122.47 - 142.09	140	3990.85	134.14	3856.71	--	--	--	--
MW-1	02/28/17	7 7/8 "	122.47 - 142.09	140	3990.85	133.50	3857.35	--	--	--	--
MW-1	08/28/17	7 7/8 "	122.47 - 142.09	140	3990.85	133.12	3857.73	--	--	--	--
MW-1	04/03/18	7 7/8 "	122.47 - 142.09	140	3990.85	133.10	3857.75	--	--	--	--
MW-1	08/27/18	7 7/8 "	122.47 - 142.09	140	3990.85	133.62	3857.23	--	--	--	--
MW-1	01/28/19	7 7/8 "	122.47 - 142.09	140	3990.85	134.36	3856.49	--	--	--	--
MW-1	12/16/19	7 7/8 "	122.47 - 142.09	140	3990.85	134.74	3856.11	--	--	--	--
MW-2	06/19/02	7 7/8"	123.27 - 142.89	140	3991.08	132.87	3858.21	--	--	--	--
MW-2	07/29/02	7 7/8"	123.27 - 142.89	140	3991.08	132.92	3858.16	--	--	--	--
MW-2	10/08/02	7 7/8"	123.27 - 142.89	140	3991.08	132.46	3858.62	--	--	--	--
MW-2	08/11/03	7 7/8"	123.27 - 142.89	140	3991.08	130.71	3860.37	--	--	--	--
MW-2	02/16/05	7 7/8"	123.27 - 142.89	140	3991.08	129.43	3861.65	--	--	--	--
MW-2	04/07/06	7 7/8"	123.27 - 142.89	140	3991.08	130.77	3860.31	--	--	--	--
MW-2	06/29/06	7 7/8"	123.27 - 142.89	140	3991.08	131.86	3859.22	--	--	--	--
MW-2	10/12/06	7 7/8"	123.27 - 142.89	140	3991.08	130.85	3860.23	--	--	--	--
MW-2	04/26/07	7 7/8"	123.27 - 142.89	140	3991.08	130.71	3860.37	--	--	--	--
MW-2	10/18/07	7 7/8"	123.27 - 142.89	140	3991.08	130.68	3860.40	--	--	--	--
MW-2	05/21/08	7 7/8"	123.27 - 142.89	140	3991.08	130.68	3860.40	--	--	--	--
MW-2	10/16/08	7 7/8"	123.27 - 142.89	140	3991.08	130.81	3860.27	--	--	--	--
MW-2	04/09/09	7 7/8"	123.27 - 142.89	140	3991.08	131.21	3859.87	--	--	--	--
MW-2	09/29/09	7 7/8"	123.27 - 142.89	140	3991.08	131.68	3859.40	--	--	--	--
MW-2	04/05/10	7 7/8"	123.27 - 142.89	140	3991.08	131.91	3859.17	--	--	--	--
MW-2	10/04/10	7 7/8"	123.27 - 142.89	140	3991.08	132.13	3858.95	--	--	--	--
MW-2	04/18/11	7 7/8"	123.27 - 142.89	140	3991.08	132.55	3858.53	--	--	--	--
MW-2	10/18/11	7 7/8"	123.27 - 142.89	140	3991.08	132.59	3858.49	--	--	--	--
MW-2	04/23/12	7 7/8"	123.27 - 142.89	140	3991.08	132.41	3858.67	--	--	--	--
MW-2	11/05/12	7 7/8"	123.27 - 142.89	140	3991.08	132.20	3858.88	--	--	--	--
MW-2	04/23/13	7 7/8"	123.27 - 142.89	140	3991.08	132.29	3858.79	--	--	--	--
MW-2	10/21/13	7 7/8"	123.27 - 142.89	140	3991.08	133.11	3857.97	--	--	--	--
MW-2	02/11/14	7 7/8"	123.27 - 142.89	140	3991.08	133.11	3857.97	--	--	--	--
MW-2	10/27/14	7 7/8"	123.27 - 142.89	140	3991.08	133.92	3857.16	--	--	--	--
MW-2	02/24/15	7 7/8"	123.27 - 142.89	140	3991.08	133.84	3857.24	--	--	--	--
MW-2	10/26/15	7 7/8"	123.27 - 142.89	140	3991.08	134.32	3856.76	--	--	--	--

APPENDIX C
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BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-2	02/29/16	7 7/8"	123.27 - 142.89	140	3991.08	134.58	3856.50	--	--	--	--
MW-2	08/22/16	7 7/8"	123.27 - 142.89	140	3991.08	134.45	3856.63	--	--	--	--
MW-2	02/28/17	7 7/8"	123.27 - 142.89	140	3991.08	133.80	3857.28	--	--	--	--
MW-2	08/28/17	7 7/8"	123.27 - 142.89	140	3991.08	133.22	3857.86	--	--	--	--
MW-2	04/03/18	7 7/8"	123.27 - 142.89	140	3991.08	133.46	3857.62	--	--	--	--
MW-2	08/27/18	7 7/8"	123.27 - 142.89	140	3991.08	134.00	3857.08	--	--	--	--
MW-2	01/28/19	7 7/8"	123.27 - 142.89	140	3991.08	134.43	3856.65	--	--	--	--
MW-2	12/16/19	7 7/8"	123.27 - 142.89	140	3991.08	135.81	3855.27	--	--	--	--
MW-3	06/19/02	7 7/8"	123.72 - 143.34	140	3991.75	133.52	3858.23	--	--	--	--
MW-3	07/29/02	7 7/8"	123.72 - 143.34	140	3991.75	133.58	3858.17	--	--	--	--
MW-3	10/08/02	7 7/8"	123.72 - 143.34	140	3991.75	133.19	3858.56	--	--	--	--
MW-3	08/11/03	7 7/8"	123.72 - 143.34	140	3991.75	131.36	3860.39	--	--	--	--
MW-3	02/16/05	7 7/8"	123.72 - 143.34	140	3991.75	----- not gauged -----					--
MW-3	04/07/06	7 7/8"	123.72 - 143.34	140	3991.75	131.45	3860.30	--	--	--	--
MW-3	06/29/06	7 7/8"	123.72 - 143.34	140	3991.75	----- not gauged -----					--
MW-3	10/12/06	7 7/8"	123.72 - 143.34	140	3991.75	131.59	3860.16	--	--	--	--
MW-3	04/26/07	7 7/8"	123.72 - 143.34	140	3991.75	131.42	3860.33	--	--	--	--
MW-3	10/18/07	7 7/8"	123.72 - 143.34	140	3991.75	131.43	3860.32	--	--	--	--
MW-3	05/20/08	7 7/8"	123.72 - 143.34	140	3991.75	131.39	3860.36	--	--	--	--
MW-3	10/08/08	7 7/8"	123.72 - 143.34	140	3991.75	131.51	3860.24	--	--	--	--
MW-3	04/09/09	7 7/8"	123.72 - 143.34	140	3991.75	132.94	3858.81	--	--	--	--
MW-3	09/29/09	7 7/8"	123.72 - 143.34	140	3991.75	132.40	3859.35	--	--	--	--
MW-3	04/05/10	7 7/8"	123.72 - 143.34	140	3991.75	132.65	3859.10	--	--	--	--
MW-3	10/04/10	7 7/8"	123.72 - 143.34	140	3991.75	132.82	3858.93	--	--	--	--
MW-3	04/18/11	7 7/8"	123.72 - 143.34	140	3991.75	133.25	3858.50	--	--	--	--
MW-3	10/18/11	7 7/8"	123.72 - 143.34	140	3991.75	133.42	3858.33	--	--	--	--
MW-3	04/23/12	7 7/8"	123.72 - 143.34	140	3991.75	133.15	3858.62	133.12	0.03	--	--
MW-3	11/05/12	7 7/8"	123.72 - 143.34	140	3991.75	133.01	3858.74	--	--	--	--
MW-3	04/15/13	7 7/8"	123.72 - 143.34	140	3991.75	132.77	3858.98	--	--	--	--
MW-3	04/23/13	7 7/8"	123.72 - 143.34	140	3991.75	132.89	3858.86	--	--	--	--
MW-3	10/21/13	7 7/8"	123.72 - 143.34	140	3991.75	133.90	3857.87	133.88	0.02	--	--
MW-3	10/27/14	7 7/8"	123.72 - 143.34	140	3991.75	134.69	3857.17	134.55	0.14	--	--
MW-3	02/11/14	7 7/8"	123.72 - 143.34	140	3991.75	133.87	3857.99	133.73	0.14	--	--
MW-3	10/27/14	7 7/8"	123.72 - 143.34	140	3991.75	134.69	3857.17	134.55	0.14	--	--
MW-3	02/24/15	7 7/8"	123.72 - 143.34	140	3991.75	134.54	3857.24	134.50	0.04	--	--
MW-3	10/26/15	7 7/8"	123.72 - 143.34	140	3991.75	135.19	3856.57	135.18	0.01	--	--
MW-3	01/14/16	7 7/8"	123.72 - 143.34	140	3991.75	135.32	3856.43	--	--	--	--
MW-3	02/29/16	7 7/8"	123.72 - 143.34	140	3991.75	135.21	3856.55	135.20	0.01	--	--
MW-3	08/22/16	7 7/8"	123.72 - 143.34	140	3991.75	135.08	3856.67	--	--	--	--
MW-3	02/28/17	7 7/8"	123.72 - 143.34	140	3991.75	135.10	3857.40	134.10	1.00	--	--
MW-3	06/12/17	7 7/8"	123.72 - 143.34	140	3991.75	134.25	3857.90	133.72	0.53	0.5	--
MW-3	06/26/17	7 7/8"	123.72 - 143.34	140	3991.75	134.04	3858.03	133.62	0.42	0.3	--
MW-3	07/24/17	7 7/8"	123.72 - 143.34	140	3991.75	134.27	3857.97	133.62	0.65	0.5	--
MW-3	08/07/17	7 7/8"	123.72 - 143.34	140	3991.75	--	--	--	--	0.1	--
MW-3	08/28/17	7 7/8"	123.72 - 143.34	140	3991.75	134.36	3857.92	133.66	0.70	0.1	--
MW-3	09/20/17	7 7/8"	123.72 - 143.34	140	3991.75	133.20	3858.55	--	--	--	--
MW-3	10/16/17	7 7/8"	123.72 - 143.34	140	3991.75	134.43	3857.91	133.65	0.78	0.1	--
MW-3	10/31/17	7 7/8"	123.72 - 143.34	140	3991.75	134.56	3857.91	133.60	0.96	0.5	--
MW-3	11/13/17	7 7/8"	123.72 - 143.34	140	3991.75	134.55	3857.88	133.64	0.91	0.5	--
MW-3	11/27/17	7 7/8"	123.72 - 143.34	140	3991.75	134.73	3857.83	133.65	1.08	0.3	--
MW-3	12/11/17	7 7/8"	123.72 - 143.34	140	3991.75	134.65	3857.87	133.63	1.02	0.8	--
MW-3	01/02/18	7 7/8"	123.72 - 143.34	140	3991.75	134.85	3857.76	133.70	1.15	0.5	--
MW-3	01/08/18	7 7/8"	123.72 - 143.34	140	3991.75	134.77	3857.84	133.62	1.15	1.0	--
MW-3	01/24/18	7 7/8"	123.72 - 143.34	140	3991.75	135.01	3857.64	133.81	1.20	0.5	--
MW-3	02/05/18	7 7/8"	123.72 - 143.34	140	3991.75	134.85	3857.93	133.58	1.37	0.3	--
MW-3	02/23/18	7 7/8"	123.72 - 143.34	140	3991.75	134.70	3857.94	133.51	1.19	0.6	--
MW-3	03/05/18	7 7/8"	123.72 - 143.34	140	3991.75	135.15	3857.65	133.75	1.40	1.0	--
MW-3	04/03/18	7 7/8"	123.72 - 143.34	140	3991.75	135.29	3857.61	133.76	1.53	--	--
MW-3	04/16/18	7 7/8"	123.72 - 143.34	140	3991.75	135.20	3857.69	133.69	1.51	0.5	--
MW-3	04/30/18	7 7/8"	123.72 - 143.34	140	3991.75	135.57	3858.22	132.86	2.71	0.4	--

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BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-3	05/14/18	7 7/8"	123.72 - 143.34	140	3991.75	135.47	3857.50	133.85	1.62	0.2	--
MW-3	06/01/18	7 7/8"	123.72 - 143.34	140	3991.75	134.54	3857.73	133.85	0.69	0.5	--
MW-3	06/11/18	7 7/8"	123.72 - 143.34	140	3991.75	134.59	3857.69	133.89	0.70	0.5	--
MW-3	06/25/18	7 7/8"	123.72 - 143.34	140	3991.75	136.05	3857.17	134.10	1.95	--	--
MW-3	07/09/18	7 7/8"	123.72 - 143.34	140	3991.75	136.06	3857.13	134.15	1.91	0.3	--
MW-3	07/23/18	7 7/8"	123.72 - 143.34	140	3991.75	136.02	3857.13	134.16	1.86	0.4	--
MW-3	08/06/18	7 7/8"	123.72 - 143.34	140	3991.75	135.84	3857.06	134.31	1.53	0.6	--
MW-3	08/20/18	7 7/8"	123.72 - 143.34	140	3991.75	135.74	3857.07	134.33	1.41	0.1	--
MW-3	08/27/18	7 7/8"	123.72 - 143.34	140	3991.75	135.48	3857.08	134.40	1.08	--	--
MW-3	10/01/18	7 7/8"	123.72 - 143.34	140	3991.75	135.77	3857.18	134.18	1.59	0.75	--
MW-3	10/15/18	7 7/8"	123.72 - 143.34	140	3991.75	135.84	3857.12	134.23	1.61	0.60	--
MW-3	11/13/18	7 7/8"	123.72 - 143.34	140	3991.75	136.16	3857.06	134.21	1.95	0.60	--
MW-3	12/03/18	7 7/8"	123.72 - 143.34	140	3991.75	136.20	3856.94	134.35	1.85	1.00	--
MW-3	12/11/18	7 7/8"	123.72 - 143.34	140	3991.75	135.48	3856.92	134.61	0.87	--	--
MW-3	01/28/19	7 7/8"	123.72 - 143.34	140	3991.75	135.71	3856.68	134.86	0.85	--	--
MW-3	3/5/19	7 7/8"	123.72 - 143.34	140	3991.75	135.45	3856.32	135.42	0.03	--	--
MW-3	3/18/19	7 7/8"	123.72 - 143.34	140	3991.75	135.68	3856.09	135.66	0.02	--	--
MW-3	4/5/19	7 7/8"	123.72 - 143.34	140	3991.75	135.78	3856.03	135.70	0.08	--	--
MW-3	4/18/19	7 7/8"	123.72 - 143.34	140	3991.75	135.97	3855.87	135.85	0.12	--	--
MW-3	4/29/19	7 7/8"	123.72 - 143.34	140	3991.75	135.97	3856.15	135.48	0.49	--	--
MW-3	5/29/19	7 7/8"	123.72 - 143.34	140	3991.75	136.72	3857.63	133.26	3.46	0.30	--
MW-3	6/10/19	7 7/8"	123.72 - 143.34	140	3991.75	136.76	3855.96	135.47	1.29	0.20	--
MW-3	6/24/19	7 7/8"	123.72 - 143.34	140	3991.75	136.75	3856.24	135.10	1.65	0.33	--
MW-3	7/12/19	7 7/8"	123.72 - 143.34	140	3991.75	137.15	3855.92	135.40	1.75	0.40	0.6
MW-3	7/22/19	7 7/8"	123.72 - 143.34	140	3991.75	136.94	3855.83	135.58	1.36	0.50	--
MW-3	8/5/19	7 7/8"	123.72 - 143.34	140	3991.75	136.63	3855.91	135.58	1.05	0.10	0.2
MW-3	8/19/19	7 7/8"	123.72 - 143.34	140	3991.75	136.81	3855.83	135.63	1.18	0.20	0.1
MW-3	9/6/19	7 7/8"	123.72 - 143.34	140	3991.75	136.60	3855.89	135.62	0.98	0.10	0.1
MW-3	9/16/19	7 7/8"	123.72 - 143.34	140	3991.75	136.54	3855.98	135.52	1.02	0.10	--
MW-3	9/30/19	7 7/8"	123.72 - 143.34	140	3991.75	136.58	3855.76	135.79	0.79	0.10	--
MW-3	12/16/19	7 7/8"	123.72 - 143.34	140	3991.75	136.74	3855.80	135.69	1.05	--	--
MW-4	06/19/02	7 7/8"	122.47 - 142.09	140	3991.57	134.35	3857.22	--	--	--	--
MW-4	07/29/02	7 7/8"	122.47 - 142.09	140	3991.57	134.25	3857.32	--	--	--	--
MW-4	10/08/02	7 7/8"	122.47 - 142.09	140	3991.57	133.83	3857.74	--	--	--	--
MW-4	08/11/03	7 7/8"	122.47 - 142.09	140	3991.57	131.78	3859.79	--	--	--	--
MW-4	02/16/05	7 7/8"	122.47 - 142.09	140	3991.57	130.25	3861.32	--	--	--	--
MW-4	04/07/06	7 7/8"	122.47 - 142.09	140	3991.57	132.14	3859.43	--	--	--	--
MW-4	06/29/06	7 7/8"	122.47 - 142.09	140	3991.57	132.22	3859.35	--	--	--	--
MW-4	10/12/06	7 7/8"	122.47 - 142.09	140	3991.57	132.61	3858.96	--	--	--	--
MW-4	04/26/07	7 7/8"	122.47 - 142.09	140	3991.57	131.97	3859.60	--	--	--	--
MW-4	10/18/07	7 7/8"	122.47 - 142.09	140	3991.57	131.95	3859.62	--	--	--	--
MW-4	05/19/08	7 7/8"	122.47 - 142.09	140	3991.57	131.88	3859.69	--	--	--	--
MW-4	10/20/08	7 7/8"	122.47 - 142.09	140	3991.57	132.02	3859.55	--	--	--	--
MW-4	04/09/09	7 7/8"	122.47 - 142.09	140	3991.57	132.45	3859.12	--	--	--	--
MW-4	09/29/09	7 7/8"	122.47 - 142.09	140	3991.57	132.90	3858.67	--	--	--	--
MW-4	04/05/10	7 7/8"	122.47 - 142.09	140	3991.57	133.19	3858.38	--	--	--	--
MW-4	10/04/10	7 7/8"	122.47 - 142.09	140	3991.57	133.45	3858.12	--	--	--	--
MW-4	04/18/11	7 7/8"	122.47 - 142.09	140	3991.57	133.85	3857.72	--	--	--	--
MW-4	10/18/11	7 7/8"	122.47 - 142.09	140	3991.57	133.92	3857.65	--	--	--	--
MW-4	04/23/12	7 7/8"	122.47 - 142.09	140	3991.57	133.49	3858.08	--	--	--	--
MW-4	11/05/12	7 7/8"	122.47 - 142.09	140	3991.57	133.20	3858.37	--	--	--	--
MW-4	04/23/13	7 7/8"	122.47 - 142.09	140	3991.57	133.28	3858.29	--	--	--	--
MW-4	10/21/13	7 7/8"	122.47 - 142.09	140	3991.57	134.27	3857.30	--	--	--	--
MW-4	02/11/14	7 7/8"	122.47 - 142.09	140	3991.57	134.44	3857.13	--	--	--	--
MW-4	10/27/14	7 7/8"	122.47 - 142.09	140	3991.57	135.40	3856.17	--	--	--	--
MW-4	02/24/15	7 7/8"	122.47 - 142.09	140	3991.57	135.41	3856.16	--	--	--	--
MW-4	10/26/15	7 7/8"	122.47 - 142.09	140	3991.57	136.01	3855.56	--	--	--	--
MW-4	02/29/16	7 7/8"	122.47 - 142.09	140	3991.57	136.05	3855.52	--	--	--	--
MW-4	08/22/16	7 7/8"	122.47 - 142.09	140	3991.57	135.60	3855.97	--	--	--	--
MW-4	02/28/17	7 7/8"	122.47 - 142.09	140	3991.57	134.90	3856.67	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-4	08/28/17	7 7/8"	122.47 - 142.09	140	3991.57	134.22	3857.35	--	--	--	--
MW-4	04/03/18	7 7/8"	122.47 - 142.09	140	3991.57	134.64	3856.93	--	--	--	--
MW-4	08/27/18	7 7/8"	122.47 - 142.09	140	3991.57	135.09	3856.48	--	--	--	--
MW-4	01/28/19	7 7/8"	122.47 - 142.09	140	3991.57	135.81	3855.76	--	--	--	--
MW-4	12/16/19	7 7/8"	122.47 - 142.09	140	3991.57	136.80	3854.77	--	--	--	--
MW-5	06/19/02	7 7/8"	125.97 - 142.59	143	3992.12	134.05	3858.07	--	--	--	--
MW-5	07/29/02	7 7/8"	125.97 - 142.59	143	3992.12	134.06	3858.06	--	--	--	--
MW-5	10/08/02	7 7/8"	125.97 - 142.59	143	3992.12	133.73	3858.39	--	--	--	--
MW-5	08/11/03	7 7/8"	125.97 - 142.59	143	3992.12	131.91	3860.21	--	--	--	--
MW-5	02/16/05	7 7/8"	125.97 - 142.59	143	3992.12	130.86	3861.26	--	--	--	--
MW-5	04/07/06	7 7/8"	125.97 - 142.59	143	3992.12	132.04	3860.08	--	--	--	--
MW-5	06/29/06	7 7/8"	125.97 - 142.59	143	3992.12	132.18	3859.94	--	--	--	--
MW-5	10/12/06	7 7/8"	125.97 - 142.59	143	3992.12	132.13	3859.99	--	--	--	--
MW-5	04/26/07	7 7/8"	125.97 - 142.59	143	3992.12	132.00	3860.12	--	--	--	--
MW-5	10/18/07	7 7/8"	125.97 - 142.59	143	3992.12	132.04	3860.08	--	--	--	--
MW-5	05/20/08	7 7/8"	125.97 - 142.59	143	3992.12	131.98	3860.14	--	--	--	--
MW-5	10/20/08	7 7/8"	125.97 - 142.59	143	3992.12	131.96	3860.16	--	--	--	--
MW-5	04/09/09	7 7/8"	125.97 - 142.59	143	3992.12	132.36	3859.76	--	--	--	--
MW-5	09/29/09	7 7/8"	125.97 - 142.59	143	3992.12	132.90	3859.22	--	--	--	--
MW-5	04/05/10	7 7/8"	125.97 - 142.59	143	3992.12	133.08	3859.04	--	--	--	--
MW-5	10/04/10	7 7/8"	125.97 - 142.59	143	3992.12	133.30	3858.82	--	--	--	--
MW-5	04/18/11	7 7/8"	125.97 - 142.59	143	3992.12	133.67	3858.45	--	--	--	--
MW-5	10/18/11	7 7/8"	125.97 - 142.59	143	3992.12	133.73	3858.39	--	--	--	--
MW-5	04/23/12	7 7/8"	125.97 - 142.59	143	3992.12	133.55	3858.57	--	--	--	--
MW-5	11/05/12	7 7/8"	125.97 - 142.59	143	3992.12	133.24	3858.88	--	--	--	--
MW-5	04/23/13	7 7/8"	125.97 - 142.59	143	3992.12	133.33	3858.79	--	--	--	--
MW-5	10/21/13	7 7/8"	125.97 - 142.59	143	3992.12	134.08	3858.04	--	--	--	--
MW-5	02/11/14	7 7/8"	125.97 - 142.59	143	3992.12	134.24	3857.88	--	--	--	--
MW-5	10/27/14	7 7/8"	125.97 - 142.59	143	3992.12	135.13	3856.99	--	--	--	--
MW-5	02/24/15	7 7/8"	125.97 - 142.59	143	3992.12	135.11	3857.01	--	--	--	--
MW-5	10/26/15	7 7/8"	125.97 - 142.59	143	3992.12	135.61	3856.51	--	--	--	--
MW-5	02/29/16	7 7/8"	125.97 - 142.59	143	3992.12	----- not gauged -----				--	--
MW-5	08/22/16	7 7/8"	125.97 - 142.59	143	3992.12	135.42	3856.70	--	--	--	--
MW-5	02/28/17	7 7/8"	125.97 - 142.59	143	3992.12	134.90	3857.22	--	--	--	--
MW-5	08/28/17	7 7/8"	125.97 - 142.59	143	3992.12	134.20	3857.92	--	--	--	--
MW-5	04/03/18	7 7/8"	125.97 - 142.59	143	3992.12	134.49	3857.63	--	--	--	--
MW-5	08/27/18	7 7/8"	125.97 - 142.59	143	3992.12	135.70	3856.42	--	--	--	--
MW-5	01/28/19	7 7/8"	125.97 - 142.59	143	3992.12	135.63	3856.49	--	--	--	--
MW-5	12/16/19	7 7/8"	125.97 - 142.59	143	3992.12	136.59	3855.53	--	--	--	--
MW-6	06/19/02	7 7/8"	122.37 - 141.99	140	3991.94	133.58	3858.36	--	--	--	--
MW-6	07/29/02	7 7/8"	122.37 - 141.99	140	3991.94	133.61	3858.33	--	--	--	--
MW-6	10/08/02	7 7/8"	122.37 - 141.99	140	3991.94	132.29	3859.65	--	--	--	--
MW-6	08/11/03	7 7/8"	122.37 - 141.99	140	3991.94	131.59	3860.35	--	--	--	--
MW-6	02/16/05	7 7/8"	122.37 - 141.99	140	3991.94	130.35	3861.59	--	--	--	--
MW-6	04/07/06	7 7/8"	122.37 - 141.99	140	3991.94	131.57	3860.37	--	--	--	--
MW-6	06/29/06	7 7/8"	122.37 - 141.99	140	3991.94	----- not gauged -----				--	--
MW-6	10/12/06	7 7/8"	122.37 - 141.99	140	3991.94	131.69	3860.25	--	--	--	--
MW-6	04/26/07	7 7/8"	122.37 - 141.99	140	3991.94	131.58	3860.36	--	--	--	--
MW-6	10/18/07	7 7/8"	122.37 - 141.99	140	3991.94	131.60	3860.34	--	--	--	--
MW-6	05/20/08	7 7/8"	122.37 - 141.99	140	3991.94	131.52	3860.42	--	--	--	--
MW-6	10/16/08	7 7/8"	122.37 - 141.99	140	3991.94	131.67	3860.27	--	--	--	--
MW-6	04/09/09	7 7/8"	122.37 - 141.99	140	3991.94	132.00	3859.94	--	--	--	--
MW-6	09/29/09	7 7/8"	122.37 - 141.99	140	3991.94	132.40	3859.54	--	--	--	--
MW-6	04/05/10	7 7/8"	122.37 - 141.99	140	3991.94	132.16	3859.78	--	--	--	--
MW-6	10/04/10	7 7/8"	122.37 - 141.99	140	3991.94	132.84	3859.10	--	--	--	--
MW-6	04/18/11	7 7/8"	122.37 - 141.99	140	3991.94	133.20	3858.74	--	--	--	--
MW-6	10/18/11	7 7/8"	122.37 - 141.99	140	3991.94	133.34	3858.60	--	--	--	--
MW-6	04/23/12	7 7/8"	122.37 - 141.99	140	3991.94	133.21	3858.73	--	--	--	--
MW-6	11/05/12	7 7/8"	122.37 - 141.99	140	3991.94	132.25	3859.69	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-6	04/23/13	7 7/8"	122.37 - 141.99	140	3991.94	132.97	3858.97	--	--	--	--
MW-6	10/21/13	7 7/8"	122.37 - 141.99	140	3991.94	133.68	3858.26	--	--	--	--
MW-6	02/11/14	7 7/8"	122.37 - 141.99	140	3991.94	133.80	3858.14	--	--	--	--
MW-6	10/27/14	7 7/8"	122.37 - 141.99	140	3991.94	134.62	3857.32	--	--	--	--
MW-6	02/24/15	7 7/8"	122.37 - 141.99	140	3991.94	134.55	3857.39	--	--	--	--
MW-6	10/26/15	7 7/8"	122.37 - 141.99	140	3991.94	135.00	3856.94	--	--	--	--
MW-6	02/29/16	7 7/8"	122.37 - 141.99	140	3991.94	135.24	3856.70	--	--	--	--
MW-6	08/22/16	7 7/8"	122.37 - 141.99	140	3991.94	135.10	3856.84	--	--	--	--
MW-6	02/28/17	7 7/8"	122.37 - 141.99	140	3991.94	134.90	3857.04	--	--	--	--
MW-6	08/28/17	7 7/8"	122.37 - 141.99	140	3991.94	133.88	3858.06	--	--	--	--
MW-6	04/03/18	7 7/8"	122.37 - 141.99	140	3991.94	134.21	3857.73	--	--	--	--
MW-6	08/27/18	7 7/8"	122.37 - 141.99	140	3991.94	134.65	3857.29	--	--	--	--
MW-6	01/28/19	7 7/8"	122.37 - 141.99	140	3991.94	135.10	3856.84	--	--	--	--
MW-6	12/16/19	7 7/8"	122.37 - 141.99	140	3991.94	136.10	3855.84	--	--	--	--
MW-7	06/19/02	7 7/8"	122.17 - 141.79	140	3992.89	133.94	3858.95	--	--	--	--
MW-7	07/29/02	7 7/8"	122.17 - 141.79	140	3992.89	134.03	3858.86	--	--	--	--
MW-7	10/08/02	7 7/8"	122.17 - 141.79	140	3992.89	133.81	3859.08	--	--	--	--
MW-7	08/11/03	7 7/8"	122.17 - 141.79	140	3992.89	132.26	3860.63	--	--	--	--
MW-7	02/16/05	7 7/8"	122.17 - 141.79	140	3992.89	130.91	3861.98	--	--	--	--
MW-7	04/07/06	7 7/8"	122.17 - 141.79	140	3992.89	132.06	3860.83	--	--	--	--
MW-7	06/29/06	7 7/8"	122.17 - 141.79	140	3992.89	----- not gauged -----				--	--
MW-7	10/12/06	7 7/8"	122.17 - 141.79	140	3992.89	132.22	3860.67	--	--	--	--
MW-7	04/26/07	7 7/8"	122.17 - 141.79	140	3992.89	132.14	3860.75	--	--	--	--
MW-7	10/18/07	7 7/8"	122.17 - 141.79	140	3992.89	132.19	3860.70	--	--	--	--
MW-7	05/20/08	7 7/8"	122.17 - 141.79	140	3992.89	132.16	3860.73	--	--	--	--
MW-7	10/15/08	7 7/8"	122.17 - 141.79	140	3992.89	132.25	3860.64	--	--	--	--
MW-7	04/09/09	7 7/8"	122.17 - 141.79	140	3992.89	132.58	3860.31	--	--	--	--
MW-7	09/29/09	7 7/8"	122.17 - 141.79	140	3992.89	133.01	3859.88	--	--	--	--
MW-7	04/05/10	7 7/8"	122.17 - 141.79	140	3992.89	133.16	3859.73	--	--	--	--
MW-7	10/04/10	7 7/8"	122.17 - 141.79	140	3992.89	133.34	3859.55	--	--	--	--
MW-7	04/18/11	7 7/8"	122.17 - 141.79	140	3992.89	133.75	3859.14	--	--	--	--
MW-7	10/18/11	7 7/8"	122.17 - 141.79	140	3992.89	133.77	3859.12	--	--	--	--
MW-7	04/23/12	7 7/8"	122.17 - 141.79	140	3992.89	133.74	3859.15	--	--	--	--
MW-7	11/05/12	7 7/8"	122.17 - 141.79	140	3992.89	133.48	3859.41	--	--	--	--
MW-7	04/23/13	7 7/8"	122.17 - 141.79	140	3992.89	133.64	3859.25	--	--	--	--
MW-7	10/21/13	7 7/8"	122.17 - 141.79	140	3992.89	134.18	3858.71	--	--	--	--
MW-7	02/11/14	7 7/8"	122.17 - 141.79	140	3992.89	134.28	3858.61	--	--	--	--
MW-7	10/27/14	7 7/8"	122.17 - 141.79	140	3992.89	134.95	3857.94	--	--	--	--
MW-7	02/24/15	7 7/8"	122.17 - 141.79	140	3992.89	134.89	3858.00	--	--	--	--
MW-7	10/26/15	7 7/8"	122.17 - 141.79	140	3992.89	135.33	3857.56	--	--	--	--
MW-7	02/29/16	7 7/8"	122.17 - 141.79	140	3992.89	135.55	3857.34	--	--	--	--
MW-7	08/22/16	7 7/8"	122.17 - 141.79	140	3992.89	135.53	3857.36	--	--	--	--
MW-7	02/28/17	7 7/8"	122.17 - 141.79	140	3992.89	134.85	3858.04	--	--	--	--
MW-7	08/28/17	7 7/8"	122.17 - 141.79	140	3992.89	134.46	3858.43	--	--	--	--
MW-7	04/03/18	7 7/8"	122.17 - 141.79	140	3992.89	134.79	3858.10	--	--	--	--
MW-7	08/27/18	7 7/8"	122.17 - 141.79	140	3992.89	135.15	3857.74	--	--	--	--
MW-7	01/28/19	7 7/8"	122.17 - 141.79	140	3992.89	135.49	3857.40	--	--	--	--
MW-7	12/16/19	7 7/8"	122.17 - 141.79	140	3992.89	136.50	3856.39	--	--	--	--
MW-8	06/19/02	7 7/8"	123.57 - 143.19	140	3991.27	132.81	3858.46	--	--	--	--
MW-8	07/29/02	7 7/8"	123.57 - 143.19	140	3991.27	132.93	3858.34	--	--	--	--
MW-8	10/08/02	7 7/8"	123.57 - 143.19	140	3991.27	132.20	3859.07	--	--	--	--
MW-8	08/11/03	7 7/8"	123.57 - 143.19	140	3991.27	130.78	3860.49	--	--	--	--
MW-8	02/16/05	7 7/8"	123.57 - 143.19	140	3991.27	129.53	3861.74	--	--	--	--
MW-8	04/07/06	7 7/8"	123.57 - 143.19	140	3991.27	130.80	3860.47	--	--	--	--
MW-8	06/29/06	7 7/8"	123.57 - 143.19	140	3991.27	130.88	3860.39	--	--	--	--
MW-8	10/12/06	7 7/8"	123.57 - 143.19	140	3991.27	130.89	3860.38	--	--	--	--
MW-8	04/26/07	7 7/8"	123.57 - 143.19	140	3991.27	130.75	3860.52	--	--	--	--
MW-8	10/18/07	7 7/8"	123.57 - 143.19	140	3991.27	130.73	3860.54	--	--	--	--
MW-8	05/21/08	7 7/8"	123.57 - 143.19	140	3991.27	130.22	3861.05	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-8	10/16/08	7 7/8"	123.57 -143.19	140	3991.27	130.84	3860.43	--	--	--	--
MW-8	04/09/09	7 7/8"	123.57 -143.19	140	3991.27	131.28	3859.99	--	--	--	--
MW-8	09/29/09	7 7/8"	123.57 -143.19	140	3991.27	131.75	3859.52	--	--	--	--
MW-8	04/05/10	7 7/8"	123.57 -143.19	140	3991.27	131.96	3859.31	--	--	--	--
MW-8	10/04/10	7 7/8"	123.57 -143.19	140	3991.27	135.46	3855.81	--	--	--	--
MW-8	03/30/11	7 7/8"	123.57 -143.19	140	3991.27	135.80	3858.73	131.47	4.33	2.5	0.50
MW-8	04/07/11	7 7/8"	123.57 -143.19	140	3991.27	134.37	3858.65	132.04	2.33	0.5	1.00
MW-8	04/13/11	7 7/8"	123.57 -143.19	140	3991.27	133.85	3858.59	132.30	1.55	0.3	0.75
MW-8	04/18/11	7 7/8"	123.57 -143.19	140	3991.27	----- not gauged -----			--	--	--
MW-8	05/03/11	7 7/8"	123.57 -143.19	140	3991.27	135.70	3858.61	131.66	4.04	1.2	0.10
MW-8	05/10/11	7 7/8"	123.57 -143.19	140	3991.27	134.68	3858.58	132.04	2.64	0.5	1.00
MW-8	05/17/11	7 7/8"	123.57 -143.19	140	3991.27	134.24	3858.64	132.10	2.14	0.8	0.25
MW-8	05/24/11	7 7/8"	123.57 -143.19	140	3991.27	134.17	3858.57	132.21	1.96	--	--
MW-8	06/28/11	7 7/8"	123.57 -143.19	140	3991.27	133.69	3858.50	132.47	1.22	0.1	0.50
MW-8	08/24/11	7 7/8"	123.57 -143.19	140	3991.27	135.84	3858.44	131.84	4.00	2.5	0.50
MW-8	08/25/11	7 7/8"	123.57 -143.19	140	3991.27	134.54	3858.38	132.34	2.20	1.3	0.25
MW-8	10/18/11	7 7/8"	123.57 -143.19	140	3991.27	134.64	3858.23	132.51	2.13	2.0	0
MW-8	02/01/12	7 7/8"	123.57 -143.19	140	3991.27	135.77	3858.62	131.62	4.15	1.8	0.2
MW-8	02/16/12	7 7/8"	123.57 -143.19	140	3991.27	135.43	3858.82	131.47	3.96	1.5	0
MW-8	02/28/12	7 7/8"	123.57 -143.19	140	3991.27	135.49	3858.75	131.54	3.95	1.5	0.5
MW-8	03/12/12	7 7/8"	123.57 -143.19	140	3991.27	135.63	3858.67	131.60	4.03	1.5	0
MW-8	03/29/12	7 7/8"	123.57 -143.19	140	3991.27	135.63	3858.70	131.56	4.07	1.0	0.5
MW-8	04/10/12	7 7/8"	123.57 -143.19	140	3991.27	135.59	3858.75	131.51	4.08	1.0	0.5
MW-8	04/23/12	7 7/8"	123.57 -143.19	140	3991.27	135.47	3858.73	131.58	3.89	--	--
MW-8	05/08/12	7 7/8"	123.57 -143.19	140	3991.27	135.38	3858.79	131.52	3.86	1.2	0
MW-8	05/21/12	7 7/8"	123.57 -143.19	140	3991.27	135.23	3858.90	131.43	3.80	1.8	0.2
MW-8	06/04/12	7 7/8"	123.57 -143.19	140	3991.27	135.14	3858.86	131.51	3.63	1.5	0
MW-8	06/18/12	7 7/8"	123.57 -143.19	140	3991.27	135.04	3858.93	131.45	3.59	2.0	0.5
MW-8	07/03/12	7 7/8"	123.57 -143.19	140	3991.27	135.21	3858.86	131.49	3.72	2.0	1
MW-8	07/16/12	7 7/8"	123.57 -143.19	140	3991.27	135.10	3858.93	131.43	3.67	4.0	0
MW-8	08/02/12	7 7/8"	123.57 -143.19	140	3991.27	134.88	3858.95	131.48	3.40	3.5	0
MW-8	08/17/12	7 7/8"	123.57 -143.19	140	3991.27	134.83	3858.97	131.47	3.36	0.0	0
MW-8	08/28/12	7 7/8"	123.57 -143.19	140	3991.27	134.69	3859.11	131.33	3.36	2.5	0
MW-8	09/21/12	7 7/8"	123.57 -143.19	140	3991.27	134.70	3859.14	131.28	3.42	1.5	0.5
MW-8	09/24/12	7 7/8"	123.57 -143.19	140	3991.27	134.58	3859.21	131.23	3.35	1.6	0.6
MW-8	10/08/12	7 7/8"	123.57 -143.19	140	3991.27	134.65	3859.15	131.29	3.36	1.5	0
MW-8	10/22/12	7 7/8"	123.57 -143.19	140	3991.27	134.79	3859.09	131.32	3.47	1.5	0
MW-8	11/05/12	7 7/8"	123.57 -143.19	140	3991.27	134.66	3859.13	131.31	3.35	0.0	0
MW-8	11/20/12	7 7/8"	123.57 -143.19	140	3991.27	134.82	3859.02	131.40	3.42	2.5	0
MW-8	01/08/13	7 7/8"	123.57 -143.19	140	3991.27	134.89	3859.84	130.29	4.60	2.5	0
MW-8	01/21/13	7 7/8"	123.57 -143.19	140	3991.27	134.85	3859.32	131.00	3.85	1.5	0
MW-8	01/30/13	7 7/8"	123.57 -143.19	140	3991.27	134.36	3859.23	131.28	3.08	1.0	--
MW-8	02/13/13	7 7/8"	123.57 -143.19	140	3991.27	134.68	3859.21	131.19	3.49	--	--
MW-8	02/18/13	7 7/8"	123.57 -143.19	140	3991.27	135.05	3859.01	131.34	3.71	1.5	0.4
MW-8	03/04/13	7 7/8"	123.57 -143.19	140	3991.27	134.81	3859.31	131.02	3.79	--	--
MW-8	03/18/13	7 7/8"	123.57 -143.19	140	3991.27	135.05	3859.07	131.26	3.79	2.3	0.25
MW-8	04/01/13	7 7/8"	123.57 -143.19	140	3991.27	134.70	3859.13	131.29	3.41	1.5	0.1
MW-8	04/15/13	7 7/8"	123.57 -143.19	140	3991.27	134.98	3859.16	131.17	3.81	1.8	0.25
MW-8	04/23/13	7 7/8"	123.57 -143.19	140	3991.27	135.37	3858.99	131.26	4.11	--	--
MW-8	04/29/13	7 7/8"	123.57 -143.19	140	3991.27	134.97	3859.19	131.13	3.84	2.0	0.25
MW-8	05/15/13	7 7/8"	123.57 -143.19	140	3991.27	135.08	3859.13	131.17	3.91	1.8	0.25
MW-8	05/28/13	7 7/8"	123.57 -143.19	140	3991.27	135.22	3859.07	131.21	4.01	1.8	0.25
MW-8	06/12/13	7 7/8"	123.57 -143.19	140	3991.27	135.24	3859.07	131.20	4.04	2.5	--
MW-8	06/26/13	7 7/8"	123.57 -143.19	140	3991.27	135.32	3859.01	131.25	4.07	2.5	0.25
MW-8	07/24/13	7 7/8"	123.57 -143.19	140	3991.27	135.70	3858.79	131.42	4.28	2.0	0
MW-8	08/06/13	7 7/8"	123.57 -143.19	140	3991.27	135.91	3858.67	131.51	4.40	2.0	0.5
MW-8	08/21/13	7 7/8"	123.57 -143.19	140	3991.27	135.94	3858.44	131.81	4.13	2.5	--
MW-8	09/03/13	7 7/8"	123.57 -143.19	140	3991.27	135.91	3858.43	131.83	4.08	2.5	--
MW-8	09/18/13	7 7/8"	123.57 -143.19	140	3991.27	135.96	3858.44	131.80	4.16	2.5	--
MW-8	09/23/13	7 7/8"	123.57 -143.19	140	3991.27	135.82	3858.18	132.19	3.63	--	--
MW-8	09/23/13	7 7/8"	123.57 -143.19	140	3991.27	133.29	3858.30	132.87	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-8	10/02/13	7 7/8"	123.57 -143.19	140	3991.27	134.73	3858.13	132.62	2.11	1.5	--
MW-8	10/16/13	7 7/8"	123.57 -143.19	140	3991.27	134.73	3858.02	132.76	1.97	1.0	--
MW-8	10/21/13	7 7/8"	123.57 -143.19	140	3991.27	134.13	3858.12	132.83	1.30	--	--
MW-8	10/30/13	7 7/8"	123.57 -143.19	140	3991.27	134.53	3857.94	132.94	1.59	1.0	--
MW-8	11/13/13	7 7/8"	123.57 -143.19	140	3991.27	134.38	3858.05	132.84	1.54	1.0	--
MW-8	12/04/13	7 7/8"	123.57 -143.19	140	3991.27	134.63	3858.14	132.63	2.00	1.5	--
MW-8	12/12/13	7 7/8"	123.57 -143.19	140	3991.27	134.90	3858.05	132.66	2.24	2.0	--
MW-8	12/30/13	7 7/8"	123.57 -143.19	140	3991.27	134.74	3858.12	132.62	2.12	0.8	--
MW-8	02/11/14	7 7/8"	123.57 -143.19	140	3991.27	135.20	3858.09	132.51	2.69	--	--
MW-8	02/12/14	7 7/8"	123.57 -143.19	140	3991.27	135.25	3858.09	132.50	2.75	--	--
MW-8	02/25/14	7 7/8"	123.57 -143.19	140	3991.27	134.91	3857.89	132.88	2.03	0.8	0.5
MW-8	03/13/14	7 7/8"	123.57 -143.19	140	3991.27	134.73	3857.95	132.86	1.87	1.0	NA
MW-8	03/27/14	7 7/8"	123.57 -143.19	140	3991.27	135.09	3857.77	132.98	2.11	1.0	--
MW-8	04/10/14	7 7/8"	123.57 -143.19	140	3991.27	135.64	3857.74	132.84	2.80	1.0	--
MW-8	04/24/14	7 7/8"	123.57 -143.19	140	3991.27	135.91	3857.62	132.90	3.01	1.5	--
MW-8	05/08/14	7 7/8"	123.57 -143.19	140	3991.27	136.01	3857.66	132.82	3.19	1.5	--
MW-8	06/19/14	7 7/8"	123.57 -143.19	140	3991.27	136.04	3857.62	132.86	3.18	1.5	--
MW-8	07/03/14	7 7/8"	123.57 -143.19	140	3991.27	136.03	3857.61	132.88	3.15	1.5	--
MW-8	08/01/14	7 7/8"	123.57 -143.19	140	3991.27	135.90	3857.63	132.90	3.00	1.5	--
MW-8	08/28/14	7 7/8"	123.57 -143.19	140	3991.27	135.88	3857.55	133.01	2.87	1.0	--
MW-8	09/11/14	7 7/8"	123.57 -143.19	140	3991.27	135.42	3857.38	133.38	2.04	2.0	--
MW-8	09/25/14	7 7/8"	123.57 -143.19	140	3991.27	135.91	3857.31	133.32	2.59	1.8	--
MW-8	10/24/14	7 7/8"	123.57 -143.19	140	3991.27	135.96	3857.27	133.36	2.60	1.5	--
MW-8	10/27/14	7 7/8"	123.57 -143.19	140	3991.27	135.86	3856.96	133.80	2.06	--	--
MW-8	01/13/15	7 7/8"	123.57 -143.19	140	3991.27	136.21	3857.19	133.38	2.83	1.0	--
MW-8	01/29/15	7 7/8"	123.57 -143.19	140	3991.27	136.72	3857.31	133.05	3.67	1.5	--
MW-8	02/10/15	7 7/8"	123.57 -143.19	140	3991.27	135.75	3857.17	133.55	2.20	1.0	--
MW-8	02/24/15	7 7/8"	123.57 -143.19	140	3991.27	135.70	3857.37	133.30	2.40	1.0	0.25
MW-8	03/12/15	7 7/8"	123.57 -143.19	140	3991.27	136.13	3857.09	133.54	2.59	1.0	--
MW-8	03/26/15	7 7/8"	123.57 -143.19	140	3991.27	136.26	3857.01	133.60	2.66	2.2	--
MW-8	04/09/15	7 7/8"	123.57 -143.19	140	3991.27	136.26	3857.04	133.56	2.70	1.0	--
MW-8	04/21/15	7 7/8"	123.57 -143.19	140	3991.27	136.23	3857.03	133.58	2.65	0.5	--
MW-8	05/06/15	7 7/8"	123.57 -143.19	140	3991.27	136.22	3857.07	133.53	2.69	2.0	--
MW-8	05/21/15	7 7/8"	123.57 -143.19	140	3991.27	136.14	3857.02	133.63	2.51	1.3	--
MW-8	06/04/15	7 7/8"	123.57 -143.19	140	3991.27	136.24	3857.04	133.57	2.67	0.8	--
MW-8	07/02/15	7 7/8"	123.57 -143.19	140	3991.27	136.39	3856.91	133.69	2.70	1.5	--
MW-8	07/16/15	7 7/8"	123.57 -143.19	140	3991.27	136.57	3856.82	133.75	2.82	1.5	--
MW-8	07/30/15	7 7/8"	123.57 -143.19	140	3991.27	134.73	3856.80	134.38		0.2	--
MW-8	08/27/15	7 7/8"	123.57 -143.19	140	3991.27	136.58	3856.80	133.78	2.80	23.6	1620
MW-8	09/10/15	7 7/8"	123.57 -143.19	140	3991.27	135.40	3856.69	134.31		0.3	--
MW-8	09/25/15	7 7/8"	123.57 -143.19	140	3991.27	136.36	3856.75	133.91	2.45	2.9	--
MW-8	10/08/15	7 7/8"	123.57 -143.19	140	3991.27	not gauged				--	--
MW-8	10/26/15	7 7/8"	123.57 -143.19	140	3991.27	136.20	3856.95	133.70	2.50	--	--
MW-8	11/05/15	7 7/8"	123.57 -143.19	140	3991.27	136.56	3856.74	133.86	2.70	1.0	--
MW-8	12/10/15	7 7/8"	123.57 -143.19	140	3991.27	136.78	3857.02	133.41	3.37	8.1	2340
MW-8	01/14/16	7 7/8"	123.57 -143.19	140	3991.27	135.20	3856.07	134.40		0.5	--
MW-8	02/25/16	7 7/8"	123.57 -143.19	140	3991.27	136.05	3856.42	134.45	1.60	0.5	--
MW-8	02/29/16	7 7/8"	123.57 -143.19	140	3991.27	136.05	3856.42	134.45	1.60	--	--
MW-8	03/10/16	7 7/8"	123.57 -143.19	140	3991.27	135.74	3856.46	134.50	1.24	0.3	--
MW-8	03/22/16	7 7/8"	123.57 -143.19	140	3991.27	135.75	3856.46	134.50	1.25	0.5	--
MW-8	04/04/16	7 7/8"	123.57 -143.19	140	3991.27	135.28	3856.34	134.82	0.46	0.3	--
MW-8	04/21/16	7 7/8"	123.57 -143.19	140	3991.27	135.27	3856.36	134.79	0.48	0.2	--
MW-8	05/20/16	7 7/8"	123.57 -143.19	140	3991.27	135.65	3856.32	134.72	0.93	0.3	--
MW-8	06/02/16	7 7/8"	123.57 -143.19	140	3991.27	136.21	3856.43	134.39	1.82	0.3	--
MW-8	06/16/16	7 7/8"	123.57 -143.19	140	3991.27	136.74	3856.24	134.47	2.27	1.0	--
MW-8	06/30/16	7 7/8"	123.57 -143.19	140	3991.27	136.19	3856.30	134.57	1.62	1.5	--
MW-8	07/14/16	7 7/8"	123.57 -143.19	140	3991.27	136.53	3856.42	134.30	2.23	1.0	--
MW-8	07/25/16	7 7/8"	123.57 -143.19	140	3991.27	136.05	3856.58	134.24	1.81	1.0	--
MW-8	08/22/16	7 7/8"	123.57 -143.19	140	3991.27	135.58	3856.72	134.21	1.37	--	--
MW-8	09/09/16	7 7/8"	123.57 -143.19	140	3991.27	135.59	3856.74	134.18	1.41	--	--
MW-8	09/22/16	7 7/8"	123.57 -143.19	140	3991.27	135.78	3856.63	134.27	1.51	1.0	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-8	10/06/16	7 7/8"	123.57 -143.19	140	3991.27	135.25	3856.74	134.29	0.96	1.0	--
MW-8	10/20/16	7 7/8"	123.57 -143.19	140	3991.27	134.82	3856.95	134.16	0.66	0.1	--
MW-8	11/03/16	7 7/8"	123.57 -143.19	140	3991.27	134.43	3857.10	134.08	0.35	0.4	--
MW-8	11/16/16	7 7/8"	123.57 -143.19	140	3991.27	134.00	3857.33	133.92	0.08	0.1	--
MW-8	11/28/16	7 7/8"	123.57 -143.19	140	3991.27	134.32	3857.15	134.05	0.27	--	--
MW-8	12/15/16	7 7/8"	123.57 -143.19	140	3991.27	134.31	3857.14	134.07	0.24	--	--
MW-8	02/28/17	7 7/8"	123.57 -143.19	140	3991.27	133.85	3857.44	133.83	0.02	--	--
MW-8	03/08/17	7 7/8"	123.57 -143.19	140	3991.27	133.75	3857.52	--	--	--	--
MW-8	03/25/17	7 7/8"	123.57 -143.19	140	3991.27	133.70	3857.57	--	--	--	--
MW-8	04/13/17	7 7/8"	123.57 -143.19	140	3991.27	133.55	3857.72	--	--	--	--
MW-8	05/01/17	7 7/8"	123.57 -143.19	140	3991.27	133.45	3857.82	--	--	--	--
MW-8	06/12/17	7 7/8"	123.57 -143.19	140	3991.27	133.46	3857.81	--	--	--	--
MW-8	06/26/17	7 7/8"	123.57 -143.19	140	3991.27	133.22	3858.05	--	--	--	--
MW-8	07/24/17	7 7/8"	123.57 -143.19	140	3991.27	133.31	3857.96	--	--	--	--
MW-8	08/07/17	7 7/8"	123.57 -143.19	140	3991.27	--	--	--	--	0.5	--
MW-8	08/28/17	7 7/8"	123.57 -143.19	140	3991.27	133.34	3857.93	--	--	--	--
MW-8	09/20/17	7 7/8"	123.57 -143.19	140	3991.27	133.23	3858.04	--	--	--	--
MW-8	10/16/17	7 7/8"	123.57 -143.19	140	3991.27	133.27	3858.00	--	--	--	--
MW-8	10/31/17	7 7/8"	123.57 -143.19	140	3991.27	133.30	3857.97	--	--	--	--
MW-8	11/13/17	7 7/8"	123.57 -143.19	140	3991.27	133.81	3857.46	--	--	--	--
MW-8	11/27/17	7 7/8"	123.57 -143.19	140	3991.27	133.34	3857.93	--	--	--	--
MW-8	12/11/17	7 7/8"	123.57 -143.19	140	3991.27	133.34	3857.93	--	--	--	--
MW-8	01/02/18	7 7/8"	123.57 -143.19	140	3991.27	133.45	3857.82	--	--	--	--
MW-8	01/08/18	7 7/8"	123.57 -143.19	140	3991.27	133.39	3857.88	--	--	--	--
MW-8	01/24/18	7 7/8"	123.57 -143.19	140	3991.27	133.63	3857.64	--	--	--	--
MW-8	02/05/18	7 7/8"	123.57 -143.19	140	3991.27	133.35	3857.92	--	--	--	--
MW-8	02/23/18	7 7/8"	123.57 -143.19	140	3991.27	133.34	3857.93	--	--	--	--
MW-8	03/05/18	7 7/8"	123.57 -143.19	140	3991.27	133.51	3857.76	--	--	--	--
MW-8	04/03/18	7 7/8"	123.57 -143.19	140	3991.27	133.52	3857.75	--	--	--	--
MW-8	04/16/18	7 7/8"	123.57 -143.19	140	3991.27	133.46	3857.81	--	--	--	--
MW-8	04/30/18	7 7/8"	123.57 -143.19	140	3991.27	133.60	3857.67	--	--	--	--
MW-8	05/14/18	7 7/8"	123.57 -143.19	140	3991.27	133.60	3857.67	--	--	--	--
MW-8	06/01/18	7 7/8"	123.57 -143.19	140	3991.27	133.66	3857.61	--	--	--	--
MW-8	06/11/18	7 7/8"	123.57 -143.19	140	3991.27	133.70	3857.57	--	--	--	--
MW-8	06/25/18	7 7/8"	123.57 -143.19	140	3991.27	134.01	3857.26	--	--	--	--
MW-8	07/09/18	7 7/8"	123.57 -143.19	140	3991.27	134.03	3857.24	--	--	--	--
MW-8	07/23/18	7 7/8"	123.57 -143.19	140	3991.27	134.08	3857.19	--	--	--	--
MW-8	08/03/18	7 7/8"	123.57 -143.19	140	3991.27	134.05	3857.22	--	--	--	--
MW-8	08/20/18	7 7/8"	123.57 -143.19	140	3991.27	134.05	3857.22	--	--	--	--
MW-8	08/27/18	7 7/8"	123.57 -143.19	140	3991.27	134.07	3857.20	--	--	--	--
MW-8	10/01/18	7 7/8"	123.57 -143.19	140	3991.27	134.02	3857.25	--	--	--	--
MW-8	10/15/18	7 7/8"	123.57 -143.19	140	3991.27	134.04	3857.23	--	--	--	--
MW-8	11/13/18	7 7/8"	123.57 -143.19	140	3991.27	134.12	3857.15	--	--	--	--
MW-8	12/03/18	7 7/8"	123.57 -143.19	140	3991.27	134.26	3857.01	--	--	--	--
MW-8	12/11/18	7 7/8"	123.57 -143.19	140	3991.27	134.22	3857.05	--	--	--	--
MW-8	01/28/19	7 7/8"	123.57 -143.19	140	3991.27	134.59	3856.68	--	--	--	--
MW-8	03/05/19	7 7/8"	123.57 -143.19	140	3991.27	135.44	3855.83	137.79	-2.35	--	--
MW-8	3/18/19	7 7/8"	123.57 -143.19	140	3991.27	135.67	3855.60	134.64	1.03	0.8	--
MW-8	4/5/19	7 7/8"	123.57 -143.19	140	3991.27	136.39	3854.88	134.45	1.94	0.8	--
MW-8	4/18/19	7 7/8"	123.57 -143.19	140	3991.27	136.59	3854.68	134.53	2.06	1.0	--
MW-8	4/29/19	7 7/8"	123.57 -143.19	140	3991.27	136.92	3854.35	134.49	2.43	0.5	--
MW-8	5/29/19	7 7/8"	123.57 -143.19	140	3991.27	136.39	3854.88	134.49	1.90	0.4	--
MW-8	6/10/19	7 7/8"	123.57 -143.19	140	3991.27	136.22	3855.05	134.58	1.64	0.6	--
MW-8	6/24/19	7 7/8"	123.57 -143.19	140	3991.27	135.91	3855.36	134.54	1.37	0.7	--
MW-8	7/12/19	7 7/8"	123.57 -143.19	140	3991.27	135.97	3855.30	134.63	1.34	0.5	0.5
MW-8	7/22/19	7 7/8"	123.57 -143.19	140	3991.27	135.99	3855.28	134.76	1.23	1.0	--
MW-8	8/5/19	7 7/8"	123.57 -143.19	140	3991.27	135.95	3855.32	134.72	1.23	0.2	0.1
MW-8	8/19/19	7 7/8"	123.57 -143.19	140	3991.27	136.11	3855.16	134.72	1.39	0.3	0.1
MW-8	9/6/19	7 7/8"	123.57 -143.19	140	3991.27	136.12	3855.15	134.63	1.49	0.5	0.3
MW-8	9/16/19	7 7/8"	123.57 -143.19	140	3991.27	135.85	3855.42	134.86	0.99	0.2	--
MW-8	9/30/19	7 7/8"	123.57 -143.19	140	3991.27	135.85	3855.42	134.80	1.05	0.2	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-8	1/28/19	7 7/8"	123.57 - 143.19	3991.27	01/28/19	140.00	134.59	--	--	--	3856.68
MW-8	12/16/19	7 7/8"	123.57 -143.19	140	3991.27	135.46	3856.37	134.72	0.74	--	--
MW-9	10/08/02	2"	123 - 145	145	3990.40	132.33	3858.07	--	--	--	--
MW-9	08/11/03	2"	123 - 145	145	3990.40	130.27	3860.13	--	--	--	--
MW-9	02/16/05	2"	123 - 145	145	3990.40	128.96	3861.44	--	--	--	--
MW-9	04/07/06	2"	123 - 145	145	3990.40	130.45	3859.95	--	--	--	--
MW-9	06/29/06	2"	123 - 145	145	3990.40	----- not gauged -----				--	--
MW-9	10/12/06	2"	123 - 145	145	3990.40	130.43	3859.97	--	--	--	--
MW-9	04/26/07	2"	123 - 145	145	3990.40	130.35	3860.05	--	--	--	--
MW-9	10/18/07	2"	123 - 145	145	3990.40	130.26	3860.14	--	--	--	--
MW-9	05/21/08	2"	123 - 145	145	3990.40	130.29	3860.11	--	--	--	--
MW-9	10/20/08	2"	123 - 145	145	3990.40	130.41	3859.99	--	--	--	--
MW-9	04/09/09	2"	123 - 145	145	3990.40	130.87	3859.53	--	--	--	--
MW-9	09/29/09	2"	123 - 145	145	3990.40	131.40	3859.00	--	--	--	--
MW-9	04/05/10	2"	123 - 145	145	3990.40	131.66	3858.74	--	--	--	--
MW-9	10/04/10	2"	123 - 145	145	3990.40	131.85	3858.55	--	--	--	--
MW-9	04/18/11	2"	123 - 145	145	3990.40	132.30	3858.10	--	--	--	--
MW-9	10/18/11	2"	123 - 145	145	3990.40	134.75	3857.97	131.66	3.09	--	--
MW-9	02/01/12	2"	123 - 145	145	3990.40	135.92	3858.12	131.08	4.84	2.0	0
MW-9	02/16/12	2"	123 - 145	145	3990.40	135.73	3858.30	130.90	4.83	2.5	0
MW-9	02/28/12	2"	123 - 145	145	3990.40	135.97	3858.21	130.94	5.03	2.0	0.5
MW-9	03/12/12	2"	123 - 145	145	3990.40	135.96	3858.16	131.01	4.95	2.7	0.15
MW-9	03/29/12	2"	123 - 145	145	3990.40	135.87	3858.20	130.99	4.88	2.5	0
MW-9	04/10/12	2"	123 - 145	145	3990.40	135.92	3858.22	130.94	4.98	2.0	0.5
MW-9	04/23/12	2"	123 - 145	145	3990.40	135.95	3858.26	130.88	5.07	0.0	0
MW-9	05/08/12	2"	123 - 145	145	3990.40	135.89	3858.30	130.85	5.04	2.0	0.5
MW-9	05/21/12	2"	123 - 145	145	3990.40	135.76	3858.43	130.72	5.04	2.9	0.15
MW-9	06/04/12	2"	123 - 145	145	3990.40	135.88	3858.37	130.76	5.12	2.0	0
MW-9	06/18/12	2"	123 - 145	145	3990.40	135.99	3858.41	130.67	5.32	2.5	0
MW-9	07/03/12	2"	123 - 145	145	3990.40	135.95	3858.38	130.72	5.23	2.5	0.5
MW-9	07/16/12	2"	123 - 145	145	3990.40	135.90	3858.43	130.67	5.23	7.0	0
MW-9	08/02/12	2"	123 - 145	145	3990.40	135.85	3858.48	130.63	5.22	4.0	0
MW-9	08/17/12	2"	123 - 145	145	3990.40	135.87	3858.43	130.69	5.18	0.0	0
MW-9	08/28/12	2"	123 - 145	145	3990.40	135.79	3858.55	130.55	5.24	4.0	0
MW-9	09/21/12	2"	123 - 145	145	3990.40	135.65	3858.65	130.47	5.18	2.5	0
MW-9	09/24/12	2"	123 - 145	145	3990.40	135.58	3858.75	130.35	5.23	4.0	0
MW-9	10/08/12	2"	123 - 145	145	3990.40	135.74	3858.71	130.35	5.39	2.5	0
MW-9	10/22/12	2"	123 - 145	145	3990.40	135.77	3858.69	130.37	5.40	2.5	0
MW-9	11/05/12	2"	123 - 145	145	3990.40	135.71	3858.46	130.70	5.01	0.0	0
MW-9	11/20/12	2"	123 - 145	145	3990.40	135.84	3858.64	130.42	5.42	3.0	0
MW-9	01/08/13	2"	123 - 145	145	3990.40	135.81	3858.63	130.44	5.37	3.0	0
MW-9	01/21/13	2"	123 - 145	145	3990.40	135.68	3858.67	130.43	5.25	3.5	0
MW-9	01/30/13	2"	123 - 145	145	3990.40	135.62	3858.74	130.36	5.26	4.0	--
MW-9	02/13/13	2"	123 - 145	145	3990.40	135.60	3858.76	130.33	5.27	--	--
MW-9	02/18/13	2"	123 - 145	145	3990.40	135.58	3858.58	130.58	5.00	2.5	0
MW-9	03/04/13	2"	123 - 145	145	3990.40	135.68	3858.71	130.38	5.30	--	--
MW-9	03/18/13	2"	123 - 145	145	3990.40	135.68	3858.62	130.50	5.18	2.5	0.25
MW-9	04/01/13	2"	123 - 145	145	3990.40	135.58	3858.71	130.41	5.17	3.0	0.1
MW-9	04/15/13	2"	123 - 145	145	3990.40	135.75	3858.70	130.37	5.38	2.3	0.25
MW-9	04/23/13	2"	123 - 145	145	3990.40	135.66	3858.58	130.55	5.11	--	--
MW-9	04/29/13	2"	123 - 145	145	3990.40	135.72	3858.72	130.35	5.37	3.0	0.25
MW-9	05/15/13	2"	123 - 145	145	3990.40	135.74	3858.69	130.38	5.36	2.7	0.3
MW-9	05/28/13	2"	123 - 145	145	3990.40	135.75	3858.64	130.45	5.30	2.8	0.25
MW-9	06/12/13	2"	123 - 145	145	3990.40	135.70	3858.63	130.47	5.23	2.3	0.25
MW-9	06/26/13	2"	123 - 145	145	3990.40	135.71	3858.59	130.53	5.18	2.5	0.25
MW-9	07/24/13	2"	123 - 145	145	3990.40	135.81	3859.06	129.87	5.94	2.0	0
MW-9	08/06/13	2"	123 - 145	145	3990.40	135.81	3858.16	131.06	4.75	2.3	0.25
MW-9	08/21/13	2"	123 - 145	145	3990.40	135.84	3857.88	131.43	4.41	2.5	--
MW-9	09/03/13	2"	123 - 145	145	3990.40	135.82	3857.90	131.41	4.41	2.5	--
MW-9	09/18/13	2"	123 - 145	145	3990.40	135.82	3857.91	131.39	4.43	2.5	--

APPENDIX C
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BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft to c	Total Depth ft to c	Casing Elevation ft msl	Depth To Water ft to c	Water Elevation ft msl	Depth to LNAPL ft to c	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-9	09/23/13	2"	123 - 145	145	3990.40	135.61	3857.48	132.03	3.58	--	--
MW-9	09/23/13	2"	123 - 145	145	3990.40	133.09	3857.55	132.77		--	--
MW-9	10/02/13	2"	123 - 145	145	3990.40	135.80	3857.45	132.01	3.79	2.0	--
MW-9	10/16/13	2"	123 - 145	145	3990.40	135.68	3857.37	132.15	3.53	1.5	--
MW-9	10/21/13	2"	123 - 145	145	3990.40	135.61	3857.42	132.11	3.50	--	--
MW-9	10/30/13	2"	123 - 145	145	3990.40	135.98	3857.28	132.18	3.80	2.5	--
MW-9	11/13/13	2"	123 - 145	145	3990.40	135.88	3857.42	132.02	3.86	2.5	--
MW-9	12/04/13	2"	123 - 145	145	3990.40	135.95	3857.61	131.75	4.20	2.0	--
MW-9	12/12/13	2"	123 - 145	145	3990.40	136.05	3857.49	131.87	4.18	2.0	--
MW-9	12/30/13	2"	123 - 145	145	3990.40	135.98	3857.59	131.76	4.22	1.3	--
MW-9	02/11/14	2"	123 - 145	145	3990.40	136.10	3857.52	131.82	4.28	--	--
MW-9	02/25/14	2"	123 - 145	145	3990.40	136.22	3857.26	132.12	4.10	1.5	0.5
MW-9	02/25/14	2"	123 - 145	145	3990.40	133.01	3857.40	133.00		NA	NA
MW-9	03/13/14	2"	123 - 145	145	3990.40	136.12	3857.27	132.15	3.97	1.5	0.5
MW-9	03/27/14	2"	123 - 145	145	3990.40	136.17	3857.12	132.33	3.84	2.5	--
MW-9	04/10/14	2"	123 - 145	145	3990.40	136.24	3857.08	132.36	3.88	1.0	--
MW-9	04/24/14	2"	123 - 145	145	3990.40	136.25	3856.98	132.49	3.76	2.3	--
MW-9	05/08/14	2"	123 - 145	145	3990.40	136.26	3857.07	132.36	3.90	2.5	--
MW-9	06/19/14	2"	123 - 145	145	3990.40	136.33	3857.01	132.42	3.91	2.0	--
MW-9	07/03/14	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	08/01/14	2"	123 - 145	145	3990.40	136.41	3857.01	132.40	4.01	2.5	--
MW-9	08/28/14	2"	123 - 145	145	3990.40	136.51	3856.89	132.52	3.99	2.0	--
MW-9	09/11/14	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	10/24/14	2"	123 - 145	145	3990.40	136.64	3856.63	132.82	3.82	2.0	--
MW-9	10/27/14	2"	123 - 145	145	3990.40	136.60	3856.70	132.75	3.85	--	--
MW-9	01/13/15	2"	123 - 145	145	3990.40	136.59	3856.67	132.79	3.80	2.0	--
MW-9	01/29/15	2"	123 - 145	145	3990.40	136.20	3856.24	133.49	2.71	1.5	--
MW-9	02/10/15	2"	123 - 145	145	3990.40	136.66	3856.56	132.91	3.75	1.5	--
MW-9	02/24/15	2"	123 - 145	145	3990.40	136.68	3856.68	132.75	3.93	2.0	0.25
MW-9	03/12/15	2"	123 - 145	145	3990.40	136.85	3856.37	133.10	3.75	1.0	--
MW-9	03/26/15	2"	123 - 145	145	3990.40	136.77	3856.26	133.27	3.50	2.1	--
MW-9	04/09/15	2"	123 - 145	145	3990.40	136.74	3856.34	133.18	3.56	1.0	--
MW-9	04/21/15	2"	123 - 145	145	3990.40	136.81	3856.33	133.16	3.65	1.0	--
MW-9	05/06/15	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	05/21/15	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	06/04/15	2"	123 - 145	145	3990.40	136.83	3856.29	133.21	3.62	1.5	--
MW-9	07/02/15	2"	123 - 145	145	3990.40	136.90	3856.20	133.31	3.59	2.0	--
MW-9	07/16/15	2"	123 - 145	145	3990.40	137.00	3856.08	133.43	3.57	2.0	--
MW-9	07/30/15	2"	123 - 145	145	3990.40	134.42	3856.11	134.25		--	--
MW-9	08/27/15	2"	123 - 145	145	3990.40	136.97	3856.05	133.48	3.49	86.4	1296
MW-9	09/10/15	2"	123 - 145	145	3990.40	137.05	3855.94	133.61	3.44	0.3	--
MW-9	09/25/15	2"	123 - 145	145	3990.40	136.98	3855.74	133.89	3.09	2.9	--
MW-9	10/08/15	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	10/26/15	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	11/05/15	2"	123 - 145	145	3990.40	136.95	3856.09	133.44	3.51	1.5	--
MW-9	12/10/15	2"	123 - 145	145	3990.40	136.11	3855.97	133.88	2.23	75.6	1764
MW-9	12/11/15	2"	123 - 145	145	3990.40	136.27	3856.20	133.52	2.75	48.1	1770
MW-9	01/14/16	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	02/25/16	2"	123 - 145	145	3990.40	136.70	3855.69	134.05	2.65	1.5	--
MW-9	02/29/16	2"	123 - 145	145	3990.40	136.70	3855.69	134.05	2.65	--	--
MW-9	03/10/16	2"	123 - 145	145	3990.40	137.24	3855.69	133.87	3.37	1.5	--
MW-9	03/22/16	2"	123 - 145	145	3990.40	137.26	3855.67	133.90	3.36	1.5	--
MW-9	04/04/16	2"	123 - 145	145	3990.40	137.38	3855.61	133.93	3.45	1.4	--
MW-9	04/21/16	2"	123 - 145	145	3990.40	137.12	3856.04	133.45	3.67	2.5	--
MW-9	05/20/16	2"	123 - 145	145	3990.40	136.93	3856.12	133.41	3.52	1.3	--
MW-9	06/02/16	2"	123 - 145	145	3990.40	137.39	3855.45	134.14	3.25	1.5	--
MW-9	06/16/16	2"	123 - 145	145	3990.40	137.48	3854.97	134.76	2.72	1.5	--
MW-9	06/30/16	2"	123 - 145	145	3990.40	137.37	3855.47	134.12	3.25	1.5	--
MW-9	07/14/16	2"	123 - 145	145	3990.40	136.89	3855.71	133.97	2.92	1.5	--
MW-9	07/25/16	2"	123 - 145	145	3990.40	136.52	3855.91	133.82	2.70	2.0	--
MW-9	08/22/16	2"	123 - 145	145	3990.40	135.98	3856.07	133.78	2.20	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft to c	Total Depth ft to c	Casing Elevation ft msl	Depth To Water ft to c	Water Elevation ft msl	Depth to LNAPL ft to c	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-9	09/09/16	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	09/22/16	2"	123 - 145	145	3990.40	136.35	3856.39	133.24	3.11	1.5	--
MW-9	10/06/16	2"	123 - 145	145	3990.40	136.31	3856.41	133.22	3.09	1.5	--
MW-9	10/20/16	2"	123 - 145	145	3990.40	134.95	3856.41	133.68	1.27	1.3	--
MW-9	11/03/16	2"	123 - 145	145	3990.40	134.75	3856.58	133.51	1.24	1.2	--
MW-9	11/16/16	2"	123 - 145	145	3990.40	134.48	3856.72	133.42	1.06	1.1	--
MW-9	11/28/16	2"	123 - 145	145	3990.40	134.52	3856.67	133.47	1.05	1.0	--
MW-9	12/15/16	2"	123 - 145	145	3990.40	134.50	3856.68	133.46	1.04	1.0	--
MW-9	02/06/17	2"	123 - 145	145	3990.40	134.56	3857.04	132.97	1.59	1.3	--
MW-9	02/28/17	2"	123 - 145	145	3990.40	135.21	3856.79	133.08	2.13	--	--
MW-9	03/08/17	2"	123 - 145	145	3990.40	134.30	3857.08	133.00	1.30	0.5	--
MW-9	03/25/17	2"	123 - 145	145	3990.40	134.47	3857.10	132.91	1.56	0.8	--
MW-9	04/13/17	2"	123 - 145	145	3990.40	not gauged				--	--
MW-9	05/01/17	2"	123 - 145	145	3990.40	133.95	3857.41	132.67	1.28	1.0	--
MW-9	06/12/17	2"	123 - 145	145	3990.40	133.73	3857.52	132.60	1.13	0.8	--
MW-9	06/26/17	2"	123 - 145	145	3990.40	133.64	3857.59	132.53	1.11	1.0	--
MW-9	07/24/17	2"	123 - 145	145	3990.40	134.07	3857.48	132.54	1.53	1.0	--
MW-9	08/07/17	2"	123 - 145	145	3990.40						--
MW-9	08/28/17	2"	123 - 145	145	3990.40	134.23	3857.42	132.57	1.66	0.3	--
MW-9	09/20/17	2"	123 - 145	145	3990.40	133.97	3857.53	132.51	1.46	0.5	--
MW-9	10/16/17	2"	123 - 145	145	3990.40	134.18	3857.72	132.18	2.00	0.5	--
MW-9	10/31/17	2"	123 - 145	145	3990.40	134.11	3857.55	132.43	1.68	0.6	--
MW-9	11/13/17	2"	123 - 145	145	3990.40	134.30	3857.44	132.52	1.78	0.5	--
MW-9	11/27/17	2"	123 - 145	145	3990.40	134.23	3857.55	132.40	1.83	1.3	--
MW-9	12/11/17	2"	123 - 145	145	3990.40	134.21	3857.53	132.43	1.78	--	--
MW-9	01/02/18	2"	123 - 145	145	3990.40	134.40	3857.35	132.60	1.80	1.0	--
MW-9	01/08/18	2"	123 - 145	145	3990.40	134.41	3857.43	132.49	1.92	1.0	--
MW-9	01/24/18	2"	123 - 145	145	3990.40	134.52	3857.19	132.78	1.74	1.0	--
MW-9	02/05/18	2"	123 - 145	145	3990.40	134.58	3857.44	132.42	2.16	0.3	--
MW-9	02/23/18	2"	123 - 145	145	3990.40	134.24	3857.57	132.37	1.87	1.0	--
MW-9	03/05/18	2"	123 - 145	145	3990.40	134.20	3857.37	132.65	1.55	1.0	--
MW-9	04/03/18	2"	123 - 145	145	3990.40	134.45	3857.27	132.69	1.76	--	--
MW-9	04/16/18	2"	123 - 145	145	3990.40	134.65	3857.36	132.51	2.14	1.0	--
MW-9	04/30/18	2"	123 - 145	145	3990.40	134.89	3857.20	132.64	2.25	0.6	--
MW-9	05/14/18	2"	123 - 145	145	3990.40	134.93	3857.15	132.69	2.24	0.5	--
MW-9	06/01/18	2"	123 - 145	145	3990.40	135.10	3857.07	132.74	2.36	--	--
MW-9	06/11/18	2"	123 - 145	145	3990.40	135.21	3857.00	132.80	2.41	2.0	--
MW-9	06/25/18	2"	123 - 145	145	3990.40	135.52	3856.69	133.11	2.41	--	--
MW-9	07/09/18	2"	123 - 145	145	3990.40	135.83	3856.62	133.11	2.72	0.8	--
MW-9	07/23/18	2"	123 - 145	145	3990.40	135.76	3856.66	133.08	2.68	0.9	--
MW-9	08/03/18	2"	123 - 145	145	3990.40	135.72	3856.66	133.09	2.63	1.3	--
MW-9	08/20/18	2"	123 - 145	145	3990.40	135.63	3856.69	133.08	2.55	1.3	--
MW-9	08/27/18	2"	123 - 145	145	3990.40	135.49	3856.77	133.02	2.47	--	--
MW-9	10/01/18	2"	123 - 145	145	3990.40	135.38	3856.79	133.03	2.35	1.4	--
MW-9	10/15/18	2"	123 - 145	145	3990.40	135.44	3856.75	133.06	2.38	--	--
MW-9	11/13/18	2"	123 - 145	145	3990.40	135.47	3856.68	133.14	2.33	1.2	--
MW-9	12/03/18	2"	123 - 145	145	3990.40	136.01	3856.47	133.24	2.77	2.0	--
MW-9	01/28/19	2"	123 - 145	145	3990.40	136.11	3856.44	133.25	2.86	1.5	--
MW-9	12/16/19	2"	123 - 145	145	3990.40	136.34	3856.17	133.53	2.81	--	--
MW-10	10/08/02	2"	123 - 145	145	3992.85	133.64	3859.21	--	--	--	--
MW-10	08/11/03	2"	123 - 145	145	3992.85	132.12	3860.73	--	--	--	--
MW-10	02/16/05	2"	123 - 145	145	3992.85	130.88	3861.97	--	--	--	--
MW-10	04/07/06	2"	123 - 145	145	3992.85	131.87	3860.98	--	--	--	--
MW-10	06/29/06	2"	123 - 145	145	3992.85	not gauged				--	--
MW-10	10/12/06	2"	123 - 145	145	3992.85	132.08	3860.77	--	--	--	--
MW-10	04/26/07	2"	123 - 145	145	3992.85	132.02	3860.83	--	--	--	--
MW-10	10/18/07	2"	123 - 145	145	3992.85	132.03	3860.82	--	--	--	--
MW-10	05/14/08	2"	123 - 145	145	3992.85	132.03	3860.82	--	--	--	--
MW-10	10/14/08	2"	123 - 145	145	3992.85	132.08	3860.77	--	--	--	--
MW-10	04/09/09	2"	123 - 145	145	3992.85	132.46	3860.39	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-10	09/29/09	2"	123 - 145	145	3992.85	132.79	3860.06	--	--	--	--
MW-10	04/05/10	2"	123 - 145	145	3992.85	133.04	3859.81	--	--	--	--
MW-10	10/04/10	2"	123 - 145	145	3992.85	133.21	3859.64	--	--	--	--
MW-10	04/18/11	2"	123 - 145	145	3992.85	133.65	3859.20	--	--	--	--
MW-10	10/18/11	2"	123 - 145	145	3992.85	133.71	3859.14	--	--	--	--
MW-10	04/23/12	2"	123 - 145	145	3992.85	133.61	3859.24	--	--	--	--
MW-10	11/05/12	2"	123 - 145	145	3992.85	133.36	3859.49	--	--	--	--
MW-10	04/23/13	2"	123 - 145	145	3992.85	133.57	3859.28	--	--	--	--
MW-10	10/21/13	2"	123 - 145	145	3992.85	134.14	3858.71	--	--	--	--
MW-10	02/11/14	2"	123 - 145	145	3992.85	134.20	3858.65	--	--	--	--
MW-10	10/27/14	2"	123 - 145	145	3992.85	134.81	3858.04	--	--	--	--
MW-10	02/24/15	2"	123 - 145	145	3992.85	134.75	3858.10	--	--	--	--
MW-10	10/26/15	2"	123 - 145	145	3992.85	135.17	3857.68	--	--	--	--
MW-10	02/29/16	2"	123 - 145	145	3992.85	135.42	3857.43	--	--	--	--
MW-10	08/22/16	2"	123 - 145	145	3992.85	135.42	3857.43	--	--	--	--
MW-10	02/28/17	2"	123 - 145	145	3992.85	134.83	3858.02	--	--	--	--
MW-10	08/28/17	2"	123 - 145	145	3992.85	134.52	3858.33	--	--	--	--
MW-10	04/03/18	2"	123 - 145	145	3992.85	134.72	3858.13	--	--	--	--
MW-10	08/27/18	2"	123 - 145	145	3992.85	135.11	3857.74	--	--	--	--
MW-10	01/28/19	2"	123 - 145	145	3992.85	Obstruction at 3 ft		--	--	--	--
MW-10	12/16/19	2"	123 - 145	145	3992.85	136.30	3856.55	--	--	--	--
MW-11	10/08/02	2"	123 - 145	145	3991.74	132.18	3859.56	--	--	--	--
MW-11	08/11/03	2"	123 - 145	145	3991.74	130.68	3861.06	--	--	--	--
MW-11	02/16/05	2"	123 - 145	145	3991.74	129.43	3862.31	--	--	--	--
MW-11	04/07/06	2"	123 - 145	145	3991.74	130.49	3861.25	--	--	--	--
MW-11	06/29/06	2"	123 - 145	145	3991.74	----- not gauged -----				--	--
MW-11	10/12/06	2"	123 - 145	145	3991.74	130.70	3861.04	--	--	--	--
MW-11	04/26/07	2"	123 - 145	145	3991.74	130.65	3861.09	--	--	--	--
MW-11	10/18/07	2"	123 - 145	145	3991.74	130.69	3861.05	--	--	--	--
MW-11	05/14/08	2"	123 - 145	145	3991.74	130.65	3861.09	--	--	--	--
MW-11	10/14/08	2"	123 - 145	145	3991.74	130.77	3860.97	--	--	--	--
MW-11	04/09/09	2"	123 - 145	145	3991.74	NG--Well Destroyed		--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-12	10/08/02	2"	123 - 145	145	3989.62	129.77	3859.85	--	--	--	--
MW-12	08/11/03	2"	123 - 145	145	3989.62	128.77	3860.85	--	--	--	--
MW-12	02/16/05	2"	123 - 145	145	3989.62	127.65	3861.97	--	--	--	--
MW-12	04/07/06	2"	123 - 145	145	3989.62	128.80	3860.82	--	--	--	--
MW-12	06/29/06	2"	123 - 145	145	3989.62	----- not gauged -----				--	--
MW-12	10/12/06	2"	123 - 145	145	3989.62	128.91	3860.71	--	--	--	--
MW-12	04/26/07	2"	123 - 145	145	3989.62	128.82	3860.80	--	--	--	--
MW-12	10/18/07	2"	123 - 145	145	3989.62	128.81	3860.81	--	--	--	--
MW-12	05/14/08	2"	123 - 145	145	3989.62	128.78	3860.84	--	--	--	--
MW-12	10/14/08	2"	123 - 145	145	3989.62	128.90	3860.72	--	--	--	--
MW-12	04/09/09	2"	123 - 145	145	3989.62	129.40	3860.22	--	--	--	--
MW-12	09/29/09	2"	123 - 145	145	3989.62	129.84	3859.78	--	--	--	--
MW-12	04/05/10	2"	123 - 145	145	3989.62	130.06	3859.56	--	--	--	--
MW-12	10/04/10	2"	123 - 145	145	3989.62	130.24	3859.38	--	--	--	--
MW-12	04/18/11	2"	123 - 145	145	3989.62	130.75	3858.87	--	--	--	--
MW-12	10/18/11	2"	123 - 145	145	3989.62	130.96	3858.66	--	--	--	--
MW-12	04/23/12	2"	123 - 145	145	3989.62	130.61	3859.01	--	--	--	--
MW-12	10/21/13	2"	123 - 145	145	3989.62	131.61	3858.01	--	--	--	--
MW-12	11/05/12	2"	123 - 145	145	3989.62	130.31	3859.31	--	--	--	--
MW-12	04/23/13	2"	123 - 145	145	3989.62	----- damaged -----				--	--
MW-12	10/21/13	2"	123 - 145	145	3989.62	131.61	3858.01	--	--	--	--
MW-12	02/11/14	2"	123 - 145	145	3989.62	131.20	3858.42	--	--	--	--
MW-12	10/27/14	2"	123 - 145	145	3989.62	131.93	3857.69	--	--	--	--
MW-12	02/24/15	2"	123 - 145	145	3989.62	131.95	3857.67	--	--	--	--
MW-12	10/26/15	2"	123 - 145	145	3989.62	132.21	3857.41	--	--	--	--
MW-12	02/29/16	2"	123 - 145	145	3989.62	132.80	3856.82	--	--	--	--
MW-12	08/22/16	2"	123 - 145	145	3989.62	132.71	3856.91	--	--	--	--
MW-12	02/28/17	2"	123 - 145	145	3989.62	131.80	3857.82	--	--	--	--
MW-12	08/28/17	2"	123 - 145	145	3989.62	131.80	3857.82	--	--	--	--
MW-12	04/03/18	2"	123 - 145	145	3989.62	131.61	3858.01	--	--	--	--
MW-12	08/27/18	2"	123 - 145	145	3989.62	132.13	3857.49	--	--	--	--
MW-12	01/28/19	2"	123 - 145	145	3989.62	133.05	3856.57	--	--	--	--
MW-12	12/16/19	2"	123 - 145	145	3989.62	133.12	3856.50	--	--	--	--
MW-13	10/08/02	2"	123 - 145	145	3990.60	132.59	3858.01	--	--	--	--
MW-13	08/11/03	2"	123 - 145	145	3990.60	130.37	3860.23	--	--	--	--
MW-13	02/16/05	2"	123 - 145	145	3990.60	129.30	3861.30	--	--	--	--
MW-13	04/07/06	2"	123 - 145	145	3990.60	130.59	3860.01	--	--	--	--
MW-13	06/29/06	2"	123 - 145	145	3990.60	----- not gauged -----				--	--
MW-13	10/12/06	2"	123 - 145	145	3990.60	132.62	3857.98	--	--	--	--
MW-13	04/26/07	2"	123 - 145	145	3990.60	130.47	3860.13	--	--	--	--
MW-13	10/18/07	2"	123 - 145	145	3990.60	130.41	3860.19	--	--	--	--
MW-13	05/20/08	2"	123 - 145	145	3990.60	130.41	3860.19	--	--	--	--
MW-13	10/20/08	2"	123 - 145	145	3990.60	129.04	3861.56	--	--	--	--
MW-13	04/09/09	2"	123 - 145	145	3990.60	131.05	3859.55	--	--	--	--
MW-13	09/29/09	2"	123 - 145	145	3990.60	131.58	3859.02	--	--	--	--
MW-13	04/05/10	2"	123 - 145	145	3990.60	131.85	3858.75	--	--	--	--
MW-13	10/04/10	2"	123 - 145	145	3990.60	132.06	3858.54	--	--	--	--
MW-13	04/18/11	2"	123 - 145	145	3990.60	132.65	3857.95	--	--	--	--
MW-13	10/18/11	2"	123 - 145	145	3990.60	132.73	3857.87	--	--	--	--
MW-13	04/23/12	2"	123 - 145	145	3990.60	132.27	3858.33	--	--	--	--
MW-13	11/05/12	2"	123 - 145	145	3990.60	131.85	3858.75	--	--	--	--
MW-13	04/23/13	2"	123 - 145	145	3990.60	131.92	3858.68	--	--	--	--
MW-13	10/21/13	2"	123 - 145	145	3990.6	133.36	3857.24	--	--	--	--
MW-13	02/11/14	2"	123 - 145	145	3990.60	133.06	3857.54	--	--	--	--
MW-13	10/27/14	2"	123 - 145	145	3990.60	133.92	3856.68	--	--	--	--
MW-13	02/24/15	2"	123 - 145	145	3990.60	134.00	3856.60	--	--	--	--
MW-13	10/26/15	2"	123 - 145	145	3990.60	134.32	3856.28	--	--	--	--
MW-13	02/29/16	2"	123 - 145	145	3990.60	134.85	3855.75	--	--	--	--
MW-13	08/22/16	2"	123 - 145	145	3990.60	134.35	3856.25	--	--	--	--
MW-13	2/28/2017	2"	123 - 145	145	3990.60	133.70	3856.90	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-13	08/28/17	2"	123 - 145	145	3990.60	133.30	3857.30	--	--	--	--
MW-13	04/03/18	2"	123 - 145	145	3990.60	133.25	3857.35	--	--	--	--
MW-13	08/27/18	2"	123 - 145	145	3990.60	133.81	3856.79	--	--	--	--
MW-13	01/28/19	2"	123 - 145	145	3990.60	134.70	3855.90	--	--	--	--
MW-13	12/16/19	2"	123 - 145	145	3990.60	135.12	3855.48	--	--	--	--
MW-14	10/08/02	2"	123 - 145	145	3991.27	133.31	3857.96	--	--	--	--
MW-14	08/11/03	2"	123 - 145	145	3991.27	131.17	3860.10	--	--	--	--
MW-14	02/16/05	2"	123 - 145	145	3991.27	130.12	3861.15	--	--	--	--
MW-14	04/07/06	2"	123 - 145	145	3991.27	131.53	3859.74	--	--	--	--
MW-14	06/29/06	2"	123 - 145	145	3991.27	131.57	3859.70	--	--	--	--
MW-14	10/12/06	2"	123 - 145	145	3991.27	132.18	3859.09	--	--	--	--
MW-14	04/26/07	2"	123 - 145	145	3991.27	131.23	3860.04	--	--	--	--
MW-14	10/18/07	2"	123 - 145	145	3991.27	131.21	3860.06	--	--	--	--
MW-14	05/20/08	2"	123 - 145	145	3991.27	131.18	3860.09	--	--	--	--
MW-14	10/20/08	2"	123 - 145	145	3991.27	131.23	3860.04	--	--	--	--
MW-14	04/09/09	2"	123 - 145	145	3991.27	131.77	3859.50	--	--	--	--
MW-14	09/29/09	2"	123 - 145	145	3991.27	132.39	3858.88	--	--	--	--
MW-14	04/05/10	2"	123 - 145	145	3991.27	132.59	3858.68	--	--	--	--
MW-14	10/04/10	2"	123 - 145	145	3991.27	132.17	3859.10	--	--	--	--
MW-14	04/18/11	2"	123 - 145	145	3991.27	133.50	3857.77	--	--	--	--
MW-14	10/18/11	2"	123 - 145	145	3991.27	133.67	3857.60	--	--	--	--
MW-14	04/23/12	2"	123 - 145	145	3991.27	132.94	3858.33	--	--	--	--
MW-14	11/05/12	2"	123 - 145	145	3991.27	132.49	3858.78	--	--	--	--
MW-14	04/23/13	2"	123 - 145	145	3991.27	132.64	3858.63	--	--	--	--
MW-14	10/21/13	2"	123 - 145	145	3991.27	133.85	3857.42	--	--	--	--
MW-14	02/11/14	2"	123 - 145	145	3991.27	133.84	3857.43	--	--	--	--
MW-14	10/27/14	2"	123 - 145	145	3991.27	134.72	3856.55	--	--	--	--
MW-14	02/24/15	2"	123 - 145	145	3991.27	134.75	3856.52	--	--	--	--
MW-14	10/26/15	2"	123 - 145	145	3991.27	135.25	3856.02	--	--	--	--
MW-14	02/29/16	2"	123 - 145	145	3991.27	135.50	3855.77	--	--	--	--
MW-14	08/22/16	2"	123 - 145	145	3991.27	135.08	3856.19	--	--	--	--
MW-14	2/28/2017	2"	123 - 145	145	3991.27	134.40	3856.87	--	--	--	--
MW-14	08/28/17	2"	123 - 145	145	3991.27	133.78	3857.49	--	--	--	--
MW-14	04/03/18	2"	123 - 145	145	3991.27	134.02	3857.25	--	--	--	--
MW-14	08/27/18	2"	123 - 145	145	3991.27	134.50	3856.77	--	--	--	--
MW-14	01/28/19	2"	123 - 145	145	3991.27	135.30	3855.97	--	--	--	--
MW-14	12/16/19	2"	123 - 145	145	3991.27	136.05	3855.22	--	--	--	--
MW-15	10/08/02	2"	124 - 146	146	3992.42	133.82	3858.60	--	--	--	--
MW-15	08/11/03	2"	124 - 146	146	3992.42	132.07	3860.35	--	--	--	--
MW-15	02/16/05	2"	124 - 146	146	3992.42	131.05	3861.37	--	--	--	--
MW-15	04/07/06	2"	124 - 146	146	3992.42	131.20	3861.22	--	--	--	--
MW-15	06/29/06	2"	124 - 146	146	3992.42	132.31	3860.11	--	--	--	--
MW-15	10/12/06	2"	124 - 146	146	3992.42	132.25	3860.17	--	--	--	--
MW-15	04/26/07	2"	124 - 146	146	3992.42	132.14	3860.28	--	--	--	--
MW-15	10/18/07	2"	124 - 146	146	3992.42	132.18	3860.24	--	--	--	--
MW-15	05/19/08	2"	124 - 146	146	3992.42	----- not gauged -----				--	--
MW-15	10/14/08	2"	124 - 146	146	3992.42	132.12	3860.30	--	--	--	--
MW-15	04/09/09	2"	124 - 146	146	3992.42	132.51	3859.91	--	--	--	--
MW-15	09/29/09	2"	124 - 146	146	3992.42	132.89	3859.53	--	--	--	--
MW-15	04/05/10	2"	124 - 146	146	3992.42	133.11	3859.31	--	--	--	--
MW-15	10/04/10	2"	124 - 146	146	3992.42	133.33	3859.09	--	--	--	--
MW-15	04/18/11	2"	124 - 146	146	3992.42	133.15	3859.27	--	--	--	--
MW-15	10/18/11	2"	124 - 146	146	3992.42	133.33	3859.09	--	--	--	--
MW-15	04/23/12	2"	124 - 146	146	3992.42	133.64	3858.78	--	--	--	--
MW-15	11/05/12	2"	124 - 146	146	3992.42	133.35	3859.07	--	--	--	--
MW-15	04/23/13	2"	124 - 146	146	3992.42	133.54	3858.88	--	--	--	--
MW-15	10/21/13	2"	124 - 146	146	3992.42	134.06	3858.36	--	--	--	--
MW-15	02/11/14	2"	124 - 146	146	3992.42	134.28	3858.14	--	--	--	--
MW-15	10/27/14	2"	124 - 146	146	3992.42	135.15	3857.27	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-15	02/24/15	2"	124 - 146	146	3992.42	135.13	3857.29	--	--	--	--
MW-15	10/26/15	2"	124 - 146	146	3992.42	135.66	3856.76	--	--	--	--
MW-15	02/29/16	2"	124 - 146	146	3992.42	135.66	3856.76	--	--	--	--
MW-15	08/22/16	2"	124 - 146	146	3992.42	135.35	3857.07	--	--	--	--
MW-15	2/28/2017	2"	124 - 146	146	3992.42	134.85	3857.57	--	--	--	--
MW-15	08/28/17	2"	124 - 146	146	3992.42	134.23	3858.19	--	--	--	--
MW-15	04/03/18	2"	124 - 146	146	3992.42	134.65	3857.77	--	--	--	--
MW-15	08/27/18	2"	124 - 146	146	3992.42	135.09	3857.33	--	--	--	--
MW-15	01/28/19	2"	124 - 146	146	3992.42	135.62	3856.80	--	--	--	--
MW-15	12/16/19	2"	124 - 146	146	3992.42	136.69	3855.73	--	--	--	--
MW-16	10/22/03	2"	122 - 145	145	3989.17	129.41	3859.76	--	--	--	--
MW-16	02/16/05	2"	122 - 145	145	3989.17	129.12	3860.05	--	--	--	--
MW-16	04/07/06	2"	122 - 145	145	3989.17	130.46	3858.71	--	--	--	--
MW-16	06/29/06	2"	122 - 145	145	3989.17	130.56	3858.61	--	--	--	--
MW-16	10/12/06	2"	122 - 145	145	3989.17	130.50	3858.67	--	--	--	--
MW-16	04/26/07	2"	122 - 145	145	3989.17	130.21	3858.96	--	--	--	--
MW-16	10/18/07	2"	122 - 145	145	3989.17	130.21	3858.96	--	--	--	--
MW-16	05/19/08	2"	122 - 145	145	3989.17	130.12	3859.05	--	--	--	--
MW-16	10/14/08	2"	122 - 145	145	3989.17	130.07	3859.10	--	--	--	--
MW-16	04/09/09	2"	122 - 145	145	3989.17	130.50	3858.67	--	--	--	--
MW-16	09/29/09	2"	122 - 145	145	3989.17	131.05	3858.12	--	--	--	--
MW-16	04/05/10	2"	122 - 145	145	3989.17	131.35	3857.82	--	--	--	--
MW-16	10/04/10	2"	122 - 145	145	3989.17	131.58	3857.59	--	--	--	--
MW-16	04/18/11	2"	122 - 145	145	3989.17	132.08	3857.09	--	--	--	--
MW-16	10/18/11	2"	122 - 145	145	3989.17	133.54	3855.63	--	--	--	--
MW-16	04/23/12	2"	122 - 145	145	3989.17	131.62	3857.55	--	--	--	--
MW-16	11/05/12	2"	122 - 145	145	3989.17	131.26	3857.91	--	--	--	--
MW-16	04/23/13	2"	122 - 145	145	3989.17	131.14	3858.03	--	--	--	--
MW-16	10/21/13	2"	122 - 145	145	3989.17	133.21	3855.96	--	--	--	--
MW-16	02/11/14	2"	122 - 145	145	3989.17	132.71	3856.46	--	--	--	--
MW-16	10/27/14	2"	122 - 145	145	3989.17	133.76	3855.41	--	--	--	--
MW-16	02/24/15	2"	122 - 145	145	3989.17	133.86	3855.31	--	--	--	--
MW-16	10/26/15	2"	122 - 145	145	3989.17	134.55	3854.62	--	--	--	--
MW-16	02/29/16	2"	122 - 145	145	3989.17	134.32	3854.85	--	--	--	--
MW-16	08/22/16	2"	122 - 145	145	3989.17	133.57	3855.60	--	--	--	--
MW-16	2/28/2017	2"	122 - 145	145	3989.17	132.70	3856.47	--	--	--	--
MW-16	08/28/17	2"	122 - 145	145	3989.17	132.20	3856.97	--	--	--	--
MW-16	04/03/18	2"	122 - 145	145	3989.17	132.84	3856.33	--	--	--	--
MW-16	08/27/18	2"	122 - 145	145	3989.17	133.25	3855.92	--	--	--	--
MW-16	01/29/19	2"	122 - 145	145	3989.17	134.14	3855.03	--	--	--	--
MW-16	12/16/19	2"	122 - 145	145	3989.17	135.45	3853.72	--	--	--	--
MW-17	10/22/03	2"	122 - 145	145	3989.92	130.21	3859.71	--	--	--	--
MW-17	02/16/05	2"	122 - 145	145	3989.92	129.70	3860.22	--	--	--	--
MW-17	04/07/06	2"	122 - 145	145	3989.92	131.18	3858.74	--	--	--	--
MW-17	06/28/06	2"	122 - 145	145	3989.92	NG	NG	--	--	--	--
MW-17	10/12/06	2"	122 - 145	145	3989.92	131.12	3858.80	--	--	--	--
MW-17	04/26/07	2"	122 - 145	145	3989.92	130.85	3859.07	--	--	--	--
MW-17	10/18/07	2"	122 - 145	145	3989.92	130.83	3859.09	--	--	--	--
MW-17	05/19/08	2"	122 - 145	145	3989.92	130.73	3859.19	--	--	--	--
MW-17	10/14/08	2"	122 - 145	145	3989.92	130.86	3859.06	--	--	--	--
MW-17	04/09/09	2"	122 - 145	145	3989.92	131.32	3858.60	--	--	--	--
MW-17	09/29/09	2"	122 - 145	145	3989.92	131.98	3857.94	--	--	--	--
MW-17	04/05/10	2"	122 - 145	145	3989.92	132.20	3857.72	--	--	--	--
MW-17	10/04/10	2"	122 - 145	145	3989.92	132.52	3857.40	--	--	--	--
MW-17	04/18/11	2"	122 - 145	145	3989.92	132.90	3857.02	--	--	--	--
MW-17	10/18/11	2"	122 - 145	145	3989.92	133.02	3856.90	--	--	--	--
MW-17	04/23/12	2"	122 - 145	145	3989.92	132.33	3857.59	--	--	--	--
MW-17	11/05/12	2"	122 - 145	145	3989.92	132.00	3857.92	--	--	--	--
MW-17	04/23/13	2"	122 - 145	145	3989.92	132.02	3857.90	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft to c	Total Depth ft to c	Casing Elevation ft msl	Depth To Water ft to c	Water Elevation ft msl	Depth to LNAPL ft to c	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-17	10/21/13	2"	122 - 145	145	3989.92	133.18	3856.74	--	--	--	--
MW-17	02/11/14	2"	122 - 145	145	3989.92	133.47	3856.45	--	--	--	--
MW-17	10/27/14	2"	122 - 145	145	3989.92	134.54	3855.38	--	--	--	--
MW-17	02/24/15	2"	122 - 145	145	3989.92	134.81	3855.11	--	--	--	--
MW-17	10/26/15	2"	122 - 145	145	3989.92	133.21	3856.71	--	--	--	--
MW-17	02/29/16	2"	122 - 145	145	3989.92	135.20	3854.72	--	--	--	--
MW-17	08/22/16	2"	122 - 145	145	3989.92	134.53	3855.39	--	--	--	--
MW-17	2/28/2017	2"	122 - 145	145	3989.92	133.70	3856.22	--	--	--	--
MW-17	08/28/17	2"	122 - 145	145	3989.92	133.03	3856.89	--	--	--	--
MW-17	04/03/18	2"	122 - 145	145	3989.92	133.54	3856.38	--	--	--	--
MW-17	08/27/18	2"	122 - 145	145	3989.92	133.98	3855.94	--	--	--	--
MW-17	01/28/19	2"	122 - 145	145	3989.92	134.91	3855.01	--	--	--	--
MW-17	12/16/19	2"	122 - 145	145	3989.92	136.02	3853.90	--	--	--	--
MW-18	10/22/03	2"	124.49 - 144.49	145	3989.96	130.12	3859.84	--	--	--	--
MW-18	02/16/05	2"	124.49 - 144.49	145	3989.96	129.35	3860.61	--	--	--	--
MW-18	04/07/06	2"	124.49 - 144.49	145	3989.96	130.94	3859.02	--	--	--	--
MW-18	06/28/06	2"	124.49 - 144.49	145	3989.96	130.87	3859.09	--	--	--	--
MW-18	10/12/06	2"	124.49 - 144.49	145	3989.96	130.84	3859.12	--	--	--	--
MW-18	04/26/07	2"	124.49 - 144.49	145	3989.96	130.58	3859.38	--	--	--	--
MW-18	10/18/07	2"	124.49 - 144.49	145	3989.96	130.57	3859.39	--	--	--	--
MW-18	05/19/08	2"	124.49 - 144.49	145	3989.96	130.50	3859.46	--	--	--	--
MW-18	10/20/08	2"	124.49 - 144.49	145	3989.96	130.63	3859.33	--	--	--	--
MW-18	04/09/09	2"	124.49 - 144.49	145	3989.96	131.25	3858.71	--	--	--	--
MW-18	09/29/09	2"	124.49 - 144.49	145	3989.96	131.91	3858.05	--	--	--	--
MW-18	04/05/10	2"	124.49 - 144.49	145	3989.96	132.10	3857.86	--	--	--	--
MW-18	10/04/10	2"	124.49 - 144.49	145	3989.96	132.17	3857.79	--	--	--	--
MW-18	04/18/11	2"	124.49 - 144.49	145	3989.96	132.96	3857.00	--	--	--	--
MW-18	10/18/11	2"	124.49 - 144.49	145	3989.96	132.98	3856.98	--	--	--	--
MW-18	04/23/12	2"	124.49 - 144.49	145	3989.96	132.19	3857.77	--	--	--	--
MW-18	11/05/12	2"	124.49 - 144.49	145	3989.96	131.81	3858.15	--	--	--	--
MW-18	04/23/13	2"	124.49 - 144.49	145	3989.96	132.03	3857.93	--	--	--	--
MW-18	10/21/13	2"	124.49 - 144.49	145	3989.96	133.32	3856.64	--	--	--	--
MW-18	02/11/14	2"	124.49 - 144.49	145	3989.96	133.31	3856.65	--	--	--	--
MW-18	10/27/14	2"	124.49 - 144.49	145	3989.96	134.31	3855.65	--	--	--	--
MW-18	02/24/15	2"	124.49 - 144.49	145	3989.96	134.39	3855.57	--	--	--	--
MW-18	10/26/15	2"	124.49 - 144.49	145	3989.96	134.92	3855.04	--	--	--	--
MW-18	02/29/16	2"	124.49 - 144.49	145	3989.96	135.12	3854.84	--	--	--	--
MW-18	08/22/16	2"	124.49 - 144.49	145	3989.96	134.50	3855.46	--	--	--	--
MW-18	2/28/2017	2"	124.49 - 144.49	145	3989.96	133.80	3856.16	--	--	--	--
MW-18	08/28/17	2"	124.49 - 144.49	145	3989.96	133.04	3856.92	--	--	--	--
MW-18	04/03/18	2"	124.49 - 144.49	145	3989.96	133.39	3856.57	--	--	--	--
MW-18	08/27/18	2"	124.49 - 144.49	145	3989.96	133.84	3856.12	--	--	--	--
MW-18	01/28/19	2"	124.49 - 144.49	145	3989.96	134.76	3855.20	--	--	--	--
MW-18	12/16/19	2"	124.49 - 144.49	145	3989.96	135.62	3854.34	--	--	--	--
MW-19	10/22/03	2"	124.49 - 144.49	145	3991.32	130.48	3860.84	--	--	--	--
MW-19	02/16/05	2"	124.49 - 144.49	145	3991.32	129.42	3861.90	--	--	--	--
MW-19	04/07/06	2"	124.49 - 144.49	145	3991.32	130.63	3860.69	--	--	--	--
MW-19	06/29/06	2"	124.49 - 144.49	145	3991.32	130.07	3861.25	--	--	--	--
MW-19	10/12/06	2"	124.49 - 144.49	145	3991.32	130.71	3860.61	--	--	--	--
MW-19	04/26/07	2"	124.49 - 144.49	145	3991.32	130.63	3860.69	--	--	--	--
MW-19	10/18/07	2"	124.49 - 144.49	145	3991.32	130.62	3860.70	--	--	--	--
MW-19	05/08/08	2"	124.49 - 144.49	145	3991.32	130.67	3860.65	--	--	--	--
MW-19	10/08/08	2"	124.49 - 144.49	145	3991.32	130.84	3860.48	--	--	--	--
MW-19	04/09/09	2"	124.49 - 144.49	145	3991.32	131.78	3859.54	--	--	--	--
MW-19	09/29/09	2"	124.49 - 144.49	145	3991.32	130.24	3861.08	--	--	--	--
MW-19	04/05/10	2"	124.49 - 144.49	145	3991.32	134.77	3856.55	--	--	--	--
MW-19	10/04/10	2"	124.49 - 144.49	145	3991.32	135.05	3856.27	--	--	--	--
MW-19	03/03/11	2"	124.49 - 144.49	145	3991.32	135.36	3858.94	131.46	3.90	2.0	0.50
MW-19	04/07/11	2"	124.49 - 144.49	145	3991.32	135.43	3858.90	131.50	3.93	2.3	0.25

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-19	04/13/11	2"	124.49 - 144.49	145	3991.32	135.52	3858.83	131.56	3.96	1.1	0.20
MW-19	04/18/11	2"	124.49 - 144.49	145	3991.32	not gauged				--	--
MW-19	05/03/11	2"	124.49 - 144.49	145	3991.32	135.51	3858.82	131.58	3.93	1.9	1.15
MW-19	05/10/11	2"	124.49 - 144.49	145	3991.32	135.50	3858.73	131.70	3.80	2.0	0.50
MW-19	05/17/11	2"	124.49 - 144.49	145	3991.32	135.52	3858.81	131.58	3.94	2.0	0.50
MW-19	05/24/11	2"	124.49 - 144.49	145	3991.32	135.50	3858.77	131.65	3.85	--	--
MW-19	06/28/11	2"	124.49 - 144.49	145	3991.32	135.46	3858.65	131.81	3.65	1.3	0.20
MW-19	08/24/11	2"	124.49 - 144.49	145	3991.32	135.65	3858.65	131.75	3.90	2.0	0.00
MW-19	08/25/11	2"	124.49 - 144.49	145	3991.32	135.13	3858.63	131.94	3.19	1.5	0.5
MW-19	10/18/11	2"	124.49 - 144.49	145	3991.32	135.47	3858.60	131.88	3.59	2.8	0
MW-19	02/01/12	2"	124.49 - 144.49	145	3991.32	135.11	3858.85	131.66	3.45	0.7	0.1
MW-19	02/16/12	2"	124.49 - 144.49	145	3991.32	134.88	3859.00	131.54	3.34	1.0	0
MW-19	02/28/12	2"	124.49 - 144.49	145	3991.32	135.00	3858.92	131.60	3.40	2.0	0.5
MW-19	03/12/12	2"	124.49 - 144.49	145	3991.32	134.95	3858.86	131.69	3.26	1.0	0.1
MW-19	03/29/12	2"	124.49 - 144.49	145	3991.32	135.03	3858.89	131.63	3.40	1.2	0.5
MW-19	04/10/12	2"	124.49 - 144.49	145	3991.32	135.12	3858.91	131.58	3.54	1.5	0.5
MW-19	04/23/12	2"	124.49 - 144.49	145	3991.32	134.85	3858.93	131.64	3.21	--	--
MW-19	05/08/12	2"	124.49 - 144.49	145	3991.32	134.77	3858.96	131.62	3.15	0.8	0
MW-19	05/21/12	2"	124.49 - 144.49	145	3991.32	134.68	3859.05	131.53	3.15	1.5	0
MW-19	06/04/12	2"	124.49 - 144.49	145	3991.32	134.59	3859.03	131.58	3.01	1.5	0
MW-19	06/18/12	2"	124.49 - 144.49	145	3991.32	134.55	3859.07	131.54	3.01	1.5	0.25
MW-19	07/03/12	2"	124.49 - 144.49	145	3991.32	134.63	3859.05	131.55	3.08	2.0	0.5
MW-19	07/16/12	2"	124.49 - 144.49	145	3991.32	134.45	3859.10	131.53	2.92	3.0	0
MW-19	08/02/12	2"	124.49 - 144.49	145	3991.32	134.10	3859.06	131.69	2.41	2.0	0
MW-19	08/17/12	2"	124.49 - 144.49	145	3991.32	not gauged				--	--
MW-19	08/28/12	2"	124.49 - 144.49	145	3991.32	134.21	3859.21	131.46	2.75	1.5	0
MW-19	09/21/12	2"	124.49 - 144.49	145	3991.32	134.03	3859.29	131.41	2.62	2.5	0
MW-19	09/24/12	2"	124.49 - 144.49	145	3991.32	133.97	3859.36	131.34	2.63	1.0	1
MW-19	10/08/12	2"	124.49 - 144.49	145	3991.32	133.94	3859.32	131.40	2.54	1.5	0
MW-19	10/22/12	2"	124.49 - 144.49	145	3991.32	134.02	3859.24	131.49	2.53	1.5	0
MW-19	10/30/12	2"	124.49 - 144.49	145	3991.32	134.08	3859.21	131.50	2.58	2.0	0
MW-19	11/05/12	2"	124.49 - 144.49	145	3991.32	133.99	3859.34	131.36	2.63	0.0	0
MW-19	11/20/12	2"	124.49 - 144.49	145	3991.32	133.99	3859.27	131.45	2.54	4.5	0
MW-19	12/05/12	2"	124.49 - 144.49	145	3991.32	133.88	3859.26	131.50	2.38	0.0	0
MW-19	01/08/13	2"	124.49 - 144.49	145	3991.32	133.80	3859.23	131.57	2.23	0.0	0
MW-19	01/21/13	2"	124.49 - 144.49	145	3991.32	133.17	3859.27	131.71	1.46	0.0	0
MW-19	01/30/13	2"	124.49 - 144.49	145	3991.32	not gauged				--	--
MW-19	02/13/13	2"	124.49 - 144.49	145	3991.32	133.49	3859.36	131.49	2.00	--	--
MW-19	02/18/13	2"	124.49 - 144.49	145	3991.32	133.39	3859.18	131.76	1.63	0.2	0
MW-19	03/04/13	2"	124.49 - 144.49	145	3991.32	133.90	3859.29	131.46	2.44	--	--
MW-19	03/18/13	2"	124.49 - 144.49	145	3991.32	133.95	3859.23	131.52	2.43	0.8	0.25
MW-19	04/01/13	2"	124.49 - 144.49	145	3991.32	133.80	3859.28	131.50	2.30	1.0	0.25
MW-19	04/15/13	2"	124.49 - 144.49	145	3991.32	134.03	3859.29	131.41	2.62	2.0	0
MW-19	04/23/13	2"	124.49 - 144.49	145	3991.32	134.04	3859.20	131.53	2.51	--	--
MW-19	04/29/13	2"	124.49 - 144.49	145	3991.32	134.00	3859.31	131.40	2.60	2.0	0.25
MW-19	05/15/13	2"	124.49 - 144.49	145	3991.32	134.08	3859.28	131.41	2.67	0.8	0.2
MW-19	05/28/13	2"	124.49 - 144.49	145	3991.32	134.09	3859.23	131.48	2.61	0.8	0.75
MW-19	06/12/13	2"	124.49 - 144.49	145	3991.32	134.11	3859.21	131.49	2.62	0.5	0.25
MW-19	06/26/13	2"	124.49 - 144.49	145	3991.32	134.18	3859.19	131.50	2.68	1.0	0.25
MW-19	07/24/13	2"	124.49 - 144.49	145	3991.32	134.75	3858.94	131.65	3.10	1.5	0.5
MW-19	08/06/13	2"	124.49 - 144.49	145	3991.32	134.97	3858.92	131.61	3.36	1.5	1.5
MW-19	08/21/13	2"	124.49 - 144.49	145	3991.32	135.45	3858.58	131.91	3.54	2.5	--
MW-19	09/03/13	2"	124.49 - 144.49	145	3991.32	135.43	3858.61	131.87	3.56	2.5	--
MW-19	09/18/13	2"	124.49 - 144.49	145	3991.32	135.46	3858.59	131.89	3.57	2.5	--
MW-19	10/02/13	2"	124.49 - 144.49	145	3991.32	135.78	3858.37	132.08	3.70	2.0	--
MW-19	10/16/13	2"	124.49 - 144.49	145	3991.32	135.48	3858.22	132.37	3.11	1.5	--
MW-19	10/21/13	2"	124.49 - 144.49	145	3991.32	130.61	3861.71	129.30	1.31	--	--
MW-19	10/30/13	2"	124.49 - 144.49	145	3991.32	135.96	3858.10	132.38	3.58	1.8	--
MW-19	11/13/13	2"	124.49 - 144.49	145	3991.32	135.97	3858.19	132.26	3.71	2.0	--
MW-19	12/04/13	2"	124.49 - 144.49	145	3991.32	135.89	3858.31	132.12	3.77	1.5	--
MW-19	12/12/13	2"	124.49 - 144.49	145	3991.32	135.90	3858.25	132.20	3.70	3.0	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-19	12/30/13	2"	124.49 - 144.49	145	3991.32	135.76	3858.34	132.12	3.64	1.3	--
MW-19	02/11/14	2"	124.49 - 144.49	145	3991.32	135.85	3858.31	132.14	3.71	--	--
MW-19	02/12/14	2"	124.49 - 144.49	145	3991.32	135.82	3858.29	132.17	3.65	--	--
MW-19	02/25/14	2"	124.49 - 144.49	145	3991.32	135.82	3858.20	132.29	3.53	1.5	0.25
MW-19	03/13/14	2"	124.49 - 144.49	145	3991.32	136.03	3858.10	132.36	3.67	1.8	0.5
MW-19	03/27/14	2"	124.49 - 144.49	145	3991.32	136.09	3857.99	132.48	3.61	1.5	--
MW-19	04/10/14	2"	124.49 - 144.49	145	3991.32	136.16	3857.97	132.49	3.67	2.0	--
MW-19	04/24/14	2"	124.49 - 144.49	145	3991.32	136.19	3857.85	132.64	3.55	2.3	--
MW-19	05/08/14	2"	124.49 - 144.49	145	3991.32	136.14	3857.92	132.56	3.58	2.0	--
MW-19	06/19/14	2"	124.49 - 144.49	145	3991.32	136.21	3857.87	132.60	3.61	2.0	--
MW-19	07/03/14	2"	124.49 - 144.49	145	3991.32	136.22	3857.88	132.59	3.63	1.5	--
MW-19	08/01/14	2"	124.49 - 144.49	145	3991.32	136.20	3857.87	132.60	3.60	2.0	--
MW-19	08/28/14	2"	124.49 - 144.49	145	3991.32	136.35	3857.76	132.70	3.65	1.3	--
MW-19	09/11/14	2"	124.49 - 144.49	145	3991.32	136.47	3857.63	132.84	3.63	1.5	--
MW-19	09/25/14	2"	124.49 - 144.49	145	3991.32	136.58	3857.55	132.91	3.67	1.5	--
MW-19	10/24/14	2"	124.49 - 144.49	145	3991.32	136.62	3857.53	132.92	3.70	1.8	--
MW-19	10/27/14	2"	124.49 - 144.49	145	3991.32	136.52	3857.57	132.90	3.62	--	--
MW-19	01/13/15	2"	124.49 - 144.49	145	3991.32	135.97	3857.58	133.01	2.96	2.0	--
MW-19	01/29/15	2"	124.49 - 144.49	145	3991.32	136.70	3857.33	133.10	3.60	1.5	--
MW-19	02/10/15	2"	124.49 - 144.49	145	3991.32	134.66	3858.67	131.99	2.67	2.0	--
MW-19	02/24/15	2"	124.49 - 144.49	145	3991.32	136.56	3857.53	132.87	3.69	1.5	0.25
MW-19	03/12/15	2"	124.49 - 144.49	145	3991.32	136.75	3857.33	133.08	3.67	1.3	--
MW-19	03/26/15	2"	124.49 - 144.49	145	3991.32	136.74	3857.21	133.24	3.50	2.0	--
MW-19	04/09/15	2"	124.49 - 144.49	145	3991.32	136.76	3857.24	133.19	3.57	1.5	--
MW-19	04/21/15	2"	124.49 - 144.49	145	3991.32	136.82	3857.24	133.17	3.65	1.0	--
MW-19	05/06/15	2"	124.49 - 144.49	145	3991.32	136.79	3857.28	133.13	3.66	2.8	--
MW-19	05/21/15	2"	124.49 - 144.49	145	3991.32	136.78	3857.24	133.19	3.59	3.0	--
MW-19	06/04/15	2"	124.49 - 144.49	145	3991.32	136.80	3857.26	133.15	3.65	1.0	--
MW-19	07/02/15	2"	124.49 - 144.49	145	3991.32	136.95	3857.14	133.26	3.69	2.0	--
MW-19	07/16/15	2"	124.49 - 144.49	145	3991.32	137.03	3857.07	133.33	3.70	2.0	--
MW-19	07/30/15	2"	124.49 - 144.49	145	3991.32	130.77	3860.57	130.74	0.03	--	--
MW-19	08/28/15	2"	124.49 - 144.49	145	3991.32	137.08	3857.08	133.31	3.77	42.6	2064
MW-19	09/10/15	2"	124.49 - 144.49	145	3991.32	137.18	3856.94	133.45	3.73	1.5	--
MW-19	09/25/15	2"	124.49 - 144.49	145	3991.32	137.08	3857.01	133.39	3.69	3.0	--
MW-19	10/08/15	2"	124.49 - 144.49	145	3991.32	136.99	3857.04	133.38	3.61	2.5	--
MW-19	10/26/15	2"	124.49 - 144.49	145	3991.32	136.75	3857.22	133.23	3.52	--	--
MW-19	11/05/15	2"	124.49 - 144.49	145	3991.32	136.93	3857.03	133.42	3.51	1.5	--
MW-19	12/11/15	2"	124.49 - 144.49	145	3991.32	136.90	3857.02	133.44	3.46	44.6	2120
MW-19	01/14/16	2"	124.49 - 144.49	145	3991.32	136.70	3856.88	133.70	3.00	1.3	--
MW-19	02/25/16	2"	124.49 - 144.49	145	3991.32	137.48	3856.64	133.75	3.73	1.5	--
MW-19	02/29/16	2"	124.49 - 144.49	145	3991.32	137.48	3856.64	133.75	3.73	--	--
MW-19	03/10/16	2"	124.49 - 144.49	145	3991.32	137.48	3856.65	133.74	3.74	1.5	--
MW-19	03/22/16	2"	124.49 - 144.49	145	3991.32	137.50	3856.64	133.75	3.75	1.5	--
MW-19	04/04/16	2"	124.49 - 144.49	145	3991.32	137.60	3856.56	133.82	3.78	1.5	--
MW-19	04/21/16	2"	124.49 - 144.49	145	3991.32	137.65	3856.51	133.88	3.77	2.0	--
MW-19	05/20/16	2"	124.49 - 144.49	145	3991.32	137.76	3856.45	133.92	3.84	1.5	--
MW-19	06/02/16	2"	124.49 - 144.49	145	3991.32	137.76	3856.45	133.92	3.84	1.5	--
MW-19	06/16/16	2"	124.49 - 144.49	145	3991.32	137.84	3856.41	133.94	3.90	1.5	--
MW-19	06/30/16	2"	124.49 - 144.49	145	3991.32	137.76	3856.45	133.92	3.84	1.5	--
MW-19	07/14/16	2"	124.49 - 144.49	145	3991.32	137.32	3856.57	133.90	3.42	1.5	--
MW-19	07/25/16	2"	124.49 - 144.49	145	3991.32	136.95	3856.75	133.79	3.16	2.3	--
MW-19	08/22/16	2"	124.49 - 144.49	145	3991.32	136.62	3856.87	133.73	2.89	1.0	--
MW-19	09/09/16	2"	124.49 - 144.49	145	3991.32	136.65	3856.90	133.69	2.96	--	--
MW-19	09/22/16	2"	124.49 - 144.49	145	3991.32	136.71	3856.86	133.72	2.99	1.5	--
MW-19	10/06/16	2"	124.49 - 144.49	145	3991.32	136.70	3856.88	133.69	3.01	1.5	--
MW-19	10/20/16	2"	124.49 - 144.49	145	3991.32	135.78	3857.10	133.70	2.08	0.4	--
MW-19	11/03/16	2"	124.49 - 144.49	145	3991.32	135.58	3857.23	133.60	1.98	2.0	--
MW-19	11/16/16	2"	124.49 - 144.49	145	3991.32	135.30	3857.41	133.45	1.85	1.9	--
MW-19	11/28/16	2"	124.49 - 144.49	145	3991.32	135.47	3857.30	133.54	1.93	1.0	--
MW-19	12/15/16	2"	124.49 - 144.49	145	3991.32	135.51	3857.31	133.52	1.99	1.0	--
MW-19	02/06/17	2"	124.49 - 144.49	145	3991.32	134.81	3857.61	133.35	1.46	1.0	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-19	02/28/17	2"	124.49 - 144.49	145	3991.32	134.90	3857.59	133.35	1.55	--	--
MW-19	03/08/17	2"	124.49 - 144.49	145	3991.32	134.76	3857.63	133.34	1.42	0.5	--
MW-19	03/25/17	2"	124.49 - 144.49	145	3991.32	134.70	3857.69	133.28	1.42	0.8	--
MW-19	04/13/17	2"	124.49 - 144.49	145	3991.32	134.22	3857.83	133.25	0.97	1.0	--
MW-19	05/01/17	2"	124.49 - 144.49	145	3991.32	133.85	3858.00	133.15	0.70	0.5	--
MW-19	06/12/17	2"	124.49 - 144.49	145	3991.32	133.68	3858.08	133.10	0.58	0.5	--
MW-19	06/26/17	2"	124.49 - 144.49	145	3991.32	133.51	3858.16	133.04	0.47	0.5	--
MW-19	07/24/17	2"	124.49 - 144.49	145	3991.32	133.96	3858.06	133.03	0.93	0.5	--
MW-19	08/07/17	2"	124.49 - 144.49	145	3991.32					0.8	--
MW-19	08/28/17	2"	124.49 - 144.49	145	3991.32	134.26	3857.98	133.04	1.22	0.2	--
MW-19	09/20/17	2"	124.49 - 144.49	145	3991.32	133.98	3858.05	133.03	0.95	0.3	--
MW-19	10/16/17	2"	124.49 - 144.49	145	3991.32	134.02	3858.07	133.00	1.02	0.2	--
MW-19	10/31/17	2"	124.49 - 144.49	145	3991.32	134.05	3858.06	133.00	1.05	0.5	--
MW-19	11/13/17	2"	124.49 - 144.49	145	3991.32	134.16	3858.01	133.03	1.13	0.5	--
MW-19	11/27/17	2"	124.49 - 144.49	145	3991.32	134.20	3858.02	133.00	1.20	0.5	--
MW-19	12/11/17	2"	124.49 - 144.49	145	3991.32	134.19	3858.03	132.99	1.20	0.8	--
MW-19	01/02/18	2"	124.49 - 144.49	145	3991.32	134.34	3857.95	133.05	1.29	1.0	
MW-19	01/08/18	2"	124.49 - 144.49	145	3991.32	134.49	3857.94	133.01	1.48	1.0	--
MW-19	01/24/18	2"	124.49 - 144.49	145	3991.32	134.83	3857.73	133.18	1.65	0.5	--
MW-19	02/05/18	2"	124.49 - 144.49	145	3991.32	134.45	3857.98	132.98	1.47	0.5	--
MW-19	02/23/18	2"	124.49 - 144.49	145	3991.32	134.18	3858.07	132.94	1.24	0.8	--
MW-19	03/05/18	2"	124.49 - 144.49	145	3991.32	134.30	3857.92	133.10	1.20	1.0	--
MW-19	04/03/18	2"	124.49 - 144.49	145	3991.32	134.36	3857.89	133.12	1.24	--	--
MW-19	04/16/18	2"	124.49 - 144.49	145	3991.32	134.42	3857.98	132.99	1.43	0.8	--
MW-19	04/30/18	2"	124.49 - 144.49	145	3991.32	134.69	3857.84	133.08	1.61	0.8	--
MW-19	05/14/18	2"	124.49 - 144.49	145	3991.32	134.81	3857.80	133.10	1.71	0.4	--
MW-19	06/01/18	2"	124.49 - 144.49	145	3991.32	135.04	3857.72	133.12	1.92	1.0	--
MW-19	06/11/18	2"	124.49 - 144.49	145	3991.32	135.21	3857.62	133.20	2.01	2.0	--
MW-19	06/25/18	2"	124.49 - 144.49	145	3991.32	135.62	3857.37	133.40	2.22	1.0	--
MW-19	07/09/18	2"	124.49 - 144.49	145	3991.32	135.95	3857.33	133.35	2.60	1.0	--
MW-19	07/23/18	2"	124.49 - 144.49	145	3991.32	135.96	3857.32	133.36	2.60	0.8	--
MW-19	08/06/18	2"	124.49 - 144.49	145	3991.32	136.06	3857.30	133.35	2.71	1.5	--
MW-19	08/20/18	2"	124.49 - 144.49	145	3991.32	135.86	3857.31	133.40	2.46	1.3	--
MW-19	08/27/18	2"	124.49 - 144.49	145	3991.32	135.77	3857.40	133.31	2.46	--	--
MW-19	10/01/18	2"	124.49 - 144.49	145	3991.32	135.76	3857.37	133.35	2.41	1.5	--
MW-19	10/15/18	2"	124.49 - 144.49	145	3991.32	135.68	3857.41	133.32	2.36	1.5	--
MW-19	11/13/18	2"	124.49 - 144.49	145	3991.32	135.78	3857.30	133.44	2.34	1.5	--
MW-19	12/03/18	2"	124.49 - 144.49	145	3991.32	136.33	3857.12	133.50	2.83	1.5	--
MW-19	12/11/18	2"	124.49 - 144.49	145	3991.32	136.54	3857.09	133.47	3.07	1.3	--
MW-19	01/28/19	2"	124.49 - 144.49	145	3991.32	137.06	3856.90	133.55	3.51	--	--
MW-19	03/05/19	2"	124.49 - 144.49	145	3991.32	137.86	3856.44	133.90	3.96	1.0	--
MW-19	3/18/19	2"	124.49 - 144.49	145	3991.32	137.75	3856.51	133.84	3.91	1.0	1
MW-19	4/5/19	2"	124.49 - 144.49	145	3991.32	137.63	3841.49	153.85	-16.22	2.5	--
MW-19	4/18/19	2"	124.49 - 144.49	145	3991.32	137.64	3856.44	133.97	3.67	1.5	--
MW-19	4/29/19	2"	124.49 - 144.49	145	3991.32	137.62	3856.44	133.97	3.65	1.5	--
MW-19	5/29/19	2"	124.49 - 144.49	145	3991.32	137.58	3856.51	133.90	3.68	1.6	--
MW-19	6/10/19	2"	124.49 - 144.49	145	3991.32	137.59	3856.48	133.93	3.66	1.5	--
MW-19	6/24/19	2"	124.49 - 144.49	145	3991.32	137.47	3856.58	133.84	3.63	1.5	--
MW-19	7/12/19	2"	124.49 - 144.49	145	3991.32	137.60	3856.49	133.91	3.69	2.0	0.3
MW-19	7/22/19	2"	124.49 - 144.49	145	3991.32	137.73	3856.43	133.96	3.77	1.0	--
MW-19	8/5/19	2"	124.49 - 144.49	145	3991.32	137.66	3856.45	133.95	3.71	2.2	1
MW-19	8/19/19	2"	124.49 - 144.49	145	3991.32	137.18	3856.55	133.97	3.21	2.0	1
MW-19	9/6/19	2"	124.49 - 144.49	145	3991.32	137.63	3856.48	133.92	3.71	1.5	0.8
MW-19	9/16/19	2"	124.49 - 144.49	145	3991.32	137.72	3856.42	133.97	3.75	2.5	--
MW-19	9/30/19	2"	124.49 - 144.49	145	3991.32	137.74	3856.38	134.01	3.73	1.0	--
MW-19	12/16/19	2"	124.49 - 144.49	145	3991.32	138.04	3856.15	134.22	3.82	--	--
MW-20	10/22/03	2"	124.49 - 144.49	145	3992.62	131.55	3861.07	--	--	--	--
MW-20	02/16/05	2"	124.49 - 144.49	145	3992.62	130.65	3861.97	--	--	--	--
MW-20	04/07/06	2"	124.49 - 144.49	145	3992.62	131.63	3860.99	--	--	--	--
MW-20	06/29/06	2"	124.49 - 144.49	145	3992.62	----- not gauged -----				--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-20	10/12/06	2"	124.49 - 144.49	145	3992.62	131.85	3860.77	--	--	--	--
MW-20	04/26/07	2"	124.49 - 144.49	145	3992.62	131.79	3860.83	--	--	--	--
MW-20	10/18/07	2"	124.49 - 144.49	145	3992.62	131.84	3860.78	--	--	--	--
MW-20	05/14/08	2"	124.49 - 144.49	145	3992.62	131.70	3860.92	--	--	--	--
MW-20	10/15/08	2"	124.49 - 144.49	145	3992.62	131.87	3860.75	--	--	--	--
MW-20	04/09/09	2"	124.49 - 144.49	145	3992.62	132.17	3860.45	--	--	--	--
MW-20	09/29/09	2"	124.49 - 144.49	145	3992.62	132.52	3860.10	--	--	--	--
MW-20	04/05/10	2"	124.49 - 144.49	145	3992.62	132.71	3859.91	--	--	--	--
MW-20	10/04/10	2"	124.49 - 144.49	145	3992.62	132.91	3859.71	--	--	--	--
MW-20	04/18/11	2"	124.49 - 144.49	145	3992.62	133.29	3859.33	--	--	--	--
MW-20	10/18/11	2"	124.49 - 144.49	145	3992.62	134.12	3858.50	--	--	--	--
MW-20	04/23/12	2"	124.49 - 144.49	145	3992.62	133.29	3859.33	--	--	--	--
MW-20	11/05/12	2"	124.49 - 144.49	145	3992.62	133.04	3859.58	--	--	--	--
MW-20	04/23/13	2"	124.49 - 144.49	145	3992.62	133.25	3859.37	--	--	--	--
MW-20	10/21/13	2"	124.49 - 144.49	145	3992.62	133.70	3858.92	--	--	--	--
MW-20	02/11/14	2"	124.49 - 144.49	145	3992.62	133.80	3858.82	--	--	--	--
MW-20	10/27/14	2"	124.49 - 144.49	145	3992.62	134.45	3858.17	--	--	--	--
MW-20	02/24/15	2"	124.49 - 144.49	145	3992.62	134.34	3858.28	--	--	--	--
MW-20	10/26/15	2"	124.49 - 144.49	145	3992.62	134.80	3857.82	--	--	--	--
MW-20	02/29/16	2"	124.49 - 144.49	145	3992.62	134.94	3857.68	--	--	--	--
MW-20	08/22/16	2"	124.49 - 144.49	145	3992.62	134.97	3857.65	--	--	--	--
MW-20	02/28/17	2"	124.49 - 144.49	145	3992.62	134.03	3858.59	--	--	--	--
MW-20	08/28/17	2"	124.49 - 144.49	145	3992.62	134.10	3858.52	--	--	--	--
MW-20	04/03/18	2"	124.49 - 144.49	145	3992.62	134.40	3858.22	--	--	--	--
MW-20	08/27/18	2"	124.49 - 144.49	145	3992.62	134.73	3857.89	--	--	--	--
MW-20	01/28/19	2"	124.49 - 144.49	145	3992.62	135.25	3857.37	--	--	--	--
MW-20	12/16/19	2"	124.49 - 144.49	145	3992.62	135.91	3856.71	--	--	--	--
MW-21	10/22/03	2"	124.49 - 144.49	145	3993.71	132.78	3860.93	--	--	--	--
MW-21	02/16/05	2"	124.49 - 144.49	145	3993.71	132.40	3861.31	--	--	--	--
MW-21	04/07/06	2"	124.49 - 144.49	145	3993.71	129.99	3863.72	--	--	--	--
MW-21	06/29/06	2"	124.49 - 144.49	145	3993.71	----- not gauged -----				--	--
MW-21	10/12/06	2"	124.49 - 144.49	145	3993.71	133.15	3860.56	--	--	--	--
MW-21	04/26/07	2"	124.49 - 144.49	145	3993.71	133.05	3860.66	--	--	--	--
MW-21	10/18/07	2"	124.49 - 144.49	145	3993.71	133.11	3860.6	--	--	--	--
MW-21	05/19/08	2"	124.49 - 144.49	145	3993.71	132.97	3860.74	--	--	--	--
MW-21	10/20/08	2"	124.49 - 144.49	145	3993.71	133.13	3860.58	--	--	--	--
MW-21	04/09/09	2"	124.49 - 144.49	145	3993.71	133.40	3860.31	--	--	--	--
MW-21	09/29/09	2"	124.49 - 144.49	145	3993.71	133.82	3859.89	--	--	--	--
MW-21	04/05/10	2"	124.49 - 144.49	145	3993.71	----- not gauged -----				--	--
MW-21	10/04/10	2"	124.49 - 144.49	145	3993.71	132.17	3861.54	--	--	--	--
MW-21	04/18/11	2"	124.49 - 144.49	145	3993.71	134.58	3859.13	--	--	--	--
MW-21	10/18/11	2"	124.49 - 144.49	145	3993.71	131.63	3862.08	--	--	--	--
MW-21	04/23/12	2"	124.49 - 144.49	145	3993.71	134.57	3859.14	--	--	--	--
MW-21	11/05/12	2"	124.49 - 144.49	145	3993.71	134.20	3859.51	--	--	--	--
MW-21	04/23/13	2"	124.49 - 144.49	145	3993.71	134.50	3859.21	--	--	--	--
MW-21	10/21/13	2"	124.49 - 144.49	145	3993.71	135.05	3858.66	--	--	--	--
MW-21	02/11/14	2"	124.49 - 144.49	145	3993.71	135.08	3858.63	--	--	--	--
MW-21	10/27/14	2"	124.49 - 144.49	145	3993.71	135.87	3857.84	--	--	--	--
MW-21	02/24/15	2"	124.49 - 144.49	145	3993.71	135.90	3857.81	--	--	--	--
MW-21	10/26/15	2"	124.49 - 144.49	145	3993.71	136.41	3857.30	--	--	--	--
MW-21	02/29/16	2"	124.49 - 144.49	145	3993.71	136.45	3857.26	--	--	--	--
MW-21	08/22/16	2"	124.49 - 144.49	145	3993.71	136.32	3857.39	--	--	--	--
MW-21	02/28/17	2"	124.49 - 144.49	145	3993.71	135.90	3857.81	--	--	--	--
MW-21	08/28/17	2"	124.49 - 144.49	145	3993.71	135.40	3858.31	--	--	--	--
MW-21	04/03/18	2"	124.49 - 144.49	145	3993.71	135.61	3858.10	--	--	--	--
MW-21	08/27/18	2"	124.49 - 144.49	145	3993.71	136.10	3857.61	--	--	--	--
MW-21	01/28/19	2"	124.49 - 144.49	145	3993.71	136.47	3857.24	--	--	--	--
MW-21	12/16/19	2"	124.49 - 144.49	145	3993.71	137.39	3856.32	--	--	--	--
MW-22	10/18/07	2"	115 - 145	145	3989.01	130.32	3858.69	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft to c	Total Depth ft to c	Casing Elevation ft msl	Depth To Water ft to c	Water Elevation ft msl	Depth to LNAPL ft to c	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-22	05/19/08	2"	115 - 145	145	3989.01	130.07	3858.94	--	--	--	--
MW-22	10/14/08	2"	115 - 145	145	3989.01	130.27	3858.74	--	--	--	--
MW-22	04/09/09	2"	115 - 145	145	3989.01	130.64	3858.37	--	--	--	--
MW-22	09/29/09	2"	115 - 145	145	3989.01	131.40	3857.61	--	--	--	--
MW-22	04/05/10	2"	115 - 145	145	3989.01	131.63	3857.38	--	--	--	--
MW-22	10/04/10	2"	115 - 145	145	3989.01	131.97	3857.04	--	--	--	--
MW-22	04/18/11	2"	115 - 145	145	3989.01	132.41	3856.60	--	--	--	--
MW-22	10/18/11	2"	115 - 145	145	3989.01	132.68	3856.33	--	--	--	--
MW-22	04/23/12	2"	115 - 145	145	3989.01	131.72	3857.29	--	--	--	--
MW-22	11/05/12	2"	115 - 145	145	3989.01	131.32	3857.69	--	--	--	--
MW-22	04/23/13	2"	115 - 145	145	3989.01	131.49	3857.52	--	--	--	--
MW-22	10/21/13	2"	115 - 145	145	3989.01	132.52	3856.49	--	--	--	--
MW-22	02/11/14	2"	115 - 145	145	3989.01	133.15	3855.86	--	--	--	--
MW-22	10/27/14	2"	115 - 145	145	3989.01	134.23	3854.78	--	--	--	--
MW-22	02/24/15	2"	115 - 145	145	3989.01	134.40	3854.61	--	--	--	--
MW-22	10/26/15	2"	115 - 145	145	3989.01	135.11	3853.90	--	--	--	--
MW-22	02/29/16	2"	115 - 145	145	3989.01	134.78	3854.23	--	--	--	--
MW-22	08/22/16	2"	115 - 145	145	3989.01	133.81	3855.20	--	--	--	--
MW-22	02/28/17	2"	115 - 145	145	3989.01	132.80	3856.21	--	--	--	--
MW-22	08/28/17	2"	115 - 145	145	3989.01	132.32	3856.69	--	--	--	--
MW-22	04/03/18	2"	115 - 145	145	3989.01	133.09	3855.92	--	--	--	--
MW-22	08/27/18	2"	115 - 145	145	3989.01	133.47	3855.54	--	--	--	--
MW-22	01/28/19	2"	115 - 145	145	3989.01	134.76	3854.25	--	--	--	--
MW-22	12/16/19	2"	115 - 145	145	3989.01	135.99	3853.02	--	--	--	--
MW-23	10/18/07	2"	115 - 145	145	3989.77	131.15	3858.62	--	--	--	--
MW-23	05/15/08	2"	115 - 145	145	3989.77	130.99	3858.78	--	--	--	--
MW-23	10/14/08	2"	115 - 145	145	3989.77	131.02	3858.75	--	--	--	--
MW-23	04/09/09	2"	115 - 145	145	3989.77	130.98	3858.79	--	--	--	--
MW-23	09/29/09	2"	115 - 145	145	3989.77	131.48	3858.29	--	--	--	--
MW-23	04/05/10	2"	115 - 145	145	3989.77	131.88	3857.89	--	--	--	--
MW-23	10/04/10	2"	115 - 145	145	3989.77	132.06	3857.71	--	--	--	--
MW-23	04/18/11	2"	115 - 145	145	3989.77	132.40	3857.37	--	--	--	--
MW-23	10/18/11	2"	115 - 145	145	3989.77	133.12	3856.65	--	--	--	--
MW-23	04/23/12	2"	115 - 145	145	3989.77	132.17	3857.60	--	--	--	--
MW-23	11/05/12	2"	115 - 145	145	3989.77	132.01	3857.76	--	--	--	--
MW-23	04/23/13	2"	115 - 145	145	3989.77	132.12	3857.65	--	--	--	--
MW-23	10/21/13	2"	115 - 145	145	3989.77	132.53	3857.24	--	--	--	--
MW-23	02/11/14	2"	115 - 145	145	3989.77	133.42	3856.35	--	--	--	--
MW-23	10/27/14	2"	115 - 145	145	3989.77	134.68	3855.09	--	--	--	--
MW-23	02/24/15	2"	115 - 145	145	3989.77	134.90	3854.87	--	--	--	--
MW-23	10/26/15	2"	115 - 145	145	3989.77	135.52	3854.25	--	--	--	--
MW-23	02/29/16	2"	115 - 145	145	3989.77	134.99	3854.78	--	--	--	--
MW-23	08/22/16	2"	115 - 145	145	3989.77	133.83	3855.94	--	--	--	--
MW-23	02/28/17	2"	115 - 145	145	3989.77	132.81	3856.96	--	--	--	--
MW-23	08/28/17	2"	115 - 145	145	3989.77	132.60	3857.17	--	--	--	--
MW-23	04/03/18	2"	115 - 145	145	3989.77	133.53	3856.24	--	--	--	--
MW-23	08/27/18	2"	115 - 145	145	3989.77	133.88	3855.89	--	--	--	--
MW-23	01/29/19	2"	115 - 145	145	3989.77	135.02	3854.75	--	--	--	--
MW-23	12/16/19	2"	115 - 145	145	3989.77	136.70	3853.07	--	--	--	--
MW-24	10/18/07	2"	115 - 145	145	3997.05	134.68	3862.37	--	--	--	--
MW-24	05/15/08	2"	115 - 145	145	3997.05	134.62	3862.43	--	--	--	--
MW-24	10/15/08	2"	115 - 145	145	3997.05	134.73	3862.32	--	--	--	--
MW-24	04/09/09	2"	115 - 145	145	3997.05	134.92	3862.13	--	--	--	--
MW-24	09/29/09	2"	115 - 145	145	3997.05	135.05	3862.00	--	--	--	--
MW-24	04/05/10	2"	115 - 145	145	3997.05	135.26	3861.79	--	--	--	--
MW-24	10/04/10	2"	115 - 145	145	3997.05	135.44	3861.61	--	--	--	--
MW-24	04/18/11	2"	115 - 145	145	3997.05	135.78	3861.27	--	--	--	--
MW-24	10/18/11	2"	115 - 145	145	3997.05	135.86	3861.19	--	--	--	--
MW-24	04/23/12	2"	115 - 145	145	3997.05	135.94	3861.11	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
MW-24	11/05/12	2"	115 - 145	145	3997.05	135.83	3861.22	--	--	--	--
MW-24	04/23/13	2"	115 - 145	145	3997.05	136.07	3860.98	--	--	--	--
MW-24	10/21/13	2"	115 - 145	145	3997.05	136.15	3860.90	--	--	--	--
MW-24	02/11/14	2"	115 - 145	145	3997.05	136.28	3860.77	--	--	--	--
MW-24	10/27/14	2"	115 - 145	145	3997.05	136.68	3860.37	--	--	--	--
MW-24	02/24/15	2"	115 - 145	145	3997.05	136.86	3860.19	--	--	--	--
MW-24	10/26/15	2"	115 - 145	145	3997.05	136.93	3860.12	--	--	--	--
MW-24	02/29/16	2"	115 - 145	145	3997.05	137.11	3859.94	--	--	--	--
MW-24	08/22/16	2"	115 - 145	145	3997.05	137.23	3859.82	--	--	--	--
MW-24	02/28/17	2"	115 - 145	145	3997.05	136.90	3860.15	--	--	--	--
MW-24	08/28/17	2"	115 - 145	145	3997.05	136.70	3860.35	--	--	--	--
MW-24	04/03/18	2"	115 - 145	145	3997.05	137.01	3860.04	--	--	--	--
MW-24	08/27/18	2"	115 - 145	145	3997.05	137.80	3859.25	--	--	--	--
MW-24	01/28/19	2"	115 - 145	145	3997.05	137.63	3859.42	--	--	--	--
MW-24	12/16/19	2"	115 - 145	145	3997.05	138.27	3858.78	--	--	--	--
MW-25	04/02/15	2"	120 - 150	150	3991.88	131.15	3860.73	--	--	--	--
MW-25	04/09/15	2"	120 - 150	150	3991.88	131.12	3860.76	--	--	--	--
MW-25	04/21/15	2"	120 - 150	150	3991.88	131.11	3860.77	--	--	--	--
MW-25	06/04/15	2"	120 - 150	150	3991.88	133.54	3858.34	--	--	--	--
MW-25	10/26/15	2"	120 - 150	150	3991.88	131.20	3860.68	--	--	--	--
MW-25	02/29/16	2"	120 - 150	150	3991.88	131.55	3860.33	--	--	--	--
MW-25	08/22/16	2"	120 - 150	150	3991.88	131.52	3860.36	--	--	--	--
MW-25	02/28/17	2"	120 - 150	150	3991.88	130.30	3861.58	--	--	--	--
MW-25	08/28/17	2"	120 - 150	150	3991.88	130.73	3861.15	--	--	--	--
MW-25	04/03/18	2"	120 - 150	150	3991.88	130.83	3861.05	--	--	--	--
MW-25	08/27/18	2"	120 - 150	150	3991.88	131.23	3860.65	--	--	--	--
MW-25	01/28/19	2"	120 - 150	150	3991.88	131.82	3860.06	--	--	--	--
MW-25	12/16/19	2"	120 - 150	150	3991.88	132.22	3859.66	--	--	--	--
MW-26	04/02/15	2"	120 - 150	150	3991.13	135.60	3855.53	--	--	--	--
MW-26	04/09/15	2"	120 - 150	150	3991.13	133.54	3857.59	--	--	--	--
MW-26	04/21/15	2"	120 - 150	150	3991.13	133.52	3857.61	--	--	--	--
MW-26	06/04/15	2"	120 - 150	150	3991.13	131.15	3859.98	--	--	--	--
MW-26	10/26/15	2"	120 - 150	150	3991.13	133.61	3857.52	--	--	--	--
MW-26	02/29/16	2"	120 - 150	150	3991.13	134.00	3857.13	--	--	--	--
MW-26	08/22/16	2"	120 - 150	150	3991.13	133.90	3857.23	--	--	--	--
MW-26	02/28/17	2"	120 - 150	150	3991.13	133.20	3857.93	--	--	--	--
MW-26	08/28/17	2"	120 - 150	150	3991.13	133.07	3858.06	--	--	--	--
MW-26	04/03/18	2"	120 - 150	150	3991.13	133.11	3858.02	--	--	--	--
MW-26	08/27/18	2"	120 - 150	150	3991.13	133.58	3857.55	--	--	--	--
MW-26	01/28/19	2"	120 - 150	150	3991.13	134.20	3856.93	--	--	--	--
MW-26	12/16/19	2"	120 - 150	150	3991.13	134.56	3856.57	--	--	--	--
EW-1	04/05/10	4"	120 - 145	145	3987.79	----- not gauged -----				--	--
EW-1	10/04/10	4"	120 - 145	145	3987.79	127.70	3860.09			--	--
EW-1	03/30/11	4"	120 - 145	145	3987.79	131.85	3858.93	127.95	3.90	5.0	0
EW-1	04/07/11	4"	120 - 145	145	3987.79	131.82	3858.87	128.03	3.79	4.0	0
EW-1	04/13/11	4"	120 - 145	145	3987.79	131.67	3858.81	128.16	3.51	3.8	0.05
EW-1	04/18/11	4"	120 - 145	145	3987.79	----- not gauged -----				--	--
EW-1	05/03/11	4"	120 - 145	145	3987.79	132.00	3858.78	128.10	3.90	3.5	0.1
EW-1	05/10/11	4"	120 - 145	145	3987.79	131.65	3858.75	128.24	3.41	3.0	0.5
EW-1	05/17/11	4"	120 - 145	145	3987.79	131.24	3858.79	128.32	2.92	3.5	0
EW-1	05/24/11	4"	120 - 145	145	3987.79	131.01	3858.70	128.50	2.51	--	--
EW-1	06/28/11	4"	120 - 145	145	3987.79	130.57	3858.55	128.84	1.73	2.0	0.01
EW-1	08/24/11	4"	120 - 145	145	3987.79	132.22	3858.63	128.23	3.99	4.0	0
EW-1	08/25/11	4"	120 - 145	145	3987.79	131.00	3858.58	128.66	2.34	2.5	0
EW-1	10/18/11	4"	120 - 145	145	3987.79	131.89	3858.34	128.70	3.19	2.8	0
EW-1	02/01/12	4"	120 - 145	145	3987.79	131.68	3858.17	128.99	2.69	4.5	0
EW-1	02/16/12	4"	120 - 145	145	3987.79	131.36	3858.95	128.07	3.29	3.0	0
EW-1	02/28/12	4"	120 - 145	145	3987.79	131.41	3858.88	128.14	3.27	2.5	0

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
EW-1	03/12/12	4"	120 - 145	145	3987.79	131.43	3858.84	128.19	3.24	3.7	0
EW-1	03/29/12	4"	120 - 145	145	3987.79	131.51	3858.94	128.04	3.47	3.0	0
EW-1	04/10/12	4"	120 - 145	145	3987.79	131.28	3859.01	128.01	3.27	2.5	0.5
EW-1	04/23/12	4"	120 - 145	145	3987.79	131.39	3858.88	128.15	3.24	--	--
EW-1	05/08/12	4"	120 - 145	145	3987.79	131.32	3858.91	128.14	3.18	1.8	0
EW-1	05/21/12	4"	120 - 145	145	3987.79	131.10	3859.01	128.07	3.03	4.0	0
EW-1	06/04/12	4"	120 - 145	145	3987.79	130.75	3858.94	128.27	2.48	1.5	0
EW-1	06/18/12	4"	120 - 145	145	3987.79	131.00	3859.06	128.04	2.96	3.0	0
EW-1	07/03/12	4"	120 - 145	145	3987.79	130.91	3858.97	128.18	2.73	1.5	0
EW-1	07/16/12	4"	120 - 145	145	3987.79	130.96	3859.08	128.02	2.94	3.0	0
EW-1	08/02/12	4"	120 - 145	145	3987.79	130.95	3859.08	128.03	2.92	3.0	0
EW-1	08/17/12	4"	120 - 145	145	3987.79	130.97	3859.06	128.05	2.92	0.0	0
EW-1	08/28/12	4"	120 - 145	145	3987.79	130.31	3859.17	128.11	2.20	2.0	0
EW-1	9/21/012	4"	120 - 145	145	3987.79	130.56	3859.25	127.92	2.64	2.2	0
EW-1	09/24/12	4"	120 - 145	145	3987.79	130.30	3859.32	127.91	2.39	2.0	0
EW-1	10/08/12	4"	120 - 145	145	3987.79	129.50	3859.51	127.91	1.59	2.0	0
EW-1	10/22/12	4"	120 - 145	145	3987.79	130.27	3859.15	128.10	2.17	2.0	0
EW-1	11/05/12	4"	120 - 145	145	3987.79	129.46	3859.59	127.79	1.67	--	--
EW-1	11/20/12	4"	120 - 145	145	3987.79	130.03	3859.20	128.12	1.91	1.5	0
EW-1	01/08/13	4"	120 - 145	145	3987.79	130.25	3859.20	128.04	2.21	1.0	0
EW-1	01/21/13	4"	120 - 145	145	3987.79	130.59	3859.15	128.00	2.59	2.0	0
EW-1	01/30/13	4"	120 - 145	145	3987.79	130.36	3859.25	127.94	2.42	1.3	--
EW-1	02/13/13	4"	120 - 145	145	3987.79	130.33	3859.29	127.90	2.43	--	--
EW-1	02/18/13	4"	120 - 145	145	3987.79	130.49	3859.10	128.09	2.40	1.5	0
EW-1	03/04/13	4"	120 - 145	145	3987.79	130.42	3859.21	127.97	2.45	--	--
EW-1	03/18/13	4"	120 - 145	145	3987.79	130.56	3859.15	128.01	2.55	1.3	0
EW-1	04/01/13	4"	120 - 145	145	3987.79	130.53	3859.12	128.06	2.47	1.0	0
EW-1	04/15/13	4"	120 - 145	145	3987.79	130.54	3859.20	127.95	2.59	1.8	1.25
EW-1	04/23/13	4"	120 - 145	145	3987.79	130.59	3859.12	128.04	2.55	--	--
EW-1	05/28/13	4"	120 - 145	145	3987.79	130.64	3859.14	128.00	2.64	3.0	0
EW-1	06/12/13	4"	120 - 145	145	3987.79	130.62	3859.15	127.99	2.63	2.0	0.25
EW-1	06/26/13	4"	120 - 145	145	3987.79	131.70	3858.87	128.00	3.70	2.5	0.25
EW-1	07/24/13	4"	120 - 145	145	3987.79	131.22	3858.84	128.20	3.02	3.0	0
EW-1	08/06/13	4"	120 - 145	145	3987.79	131.48	3858.71	128.29	3.19	4.0	--
EW-1	08/21/13	4"	120 - 145	145	3987.79	131.74	3858.52	128.45	3.29	3.5	--
EW-1	09/03/13	4"	120 - 145	145	3987.79	131.75	3858.50	128.48	3.27	3.0	--
EW-1	09/18/13	4"	120 - 145	145	3987.79	131.76	3858.51	128.46	3.30	3.0	--
EW-1	10/02/13	4"	120 - 145	145	3987.79	131.90	3858.21	128.81	3.09	3.0	--
EW-1	10/16/13	4"	120 - 145	145	3987.79	131.78	3858.12	128.97	2.81	2.5	--
EW-1	10/21/13	4"	120 - 145	145	3987.79	135.94	3854.71	132.14	3.80	--	--
EW-1	10/30/13	4"	120 - 145	145	3987.79	130.95	3858.01	129.40	1.55	2.0	0.5
EW-1	11/13/13	4"	120 - 145	145	3987.79	130.85	3858.12	129.28	1.57	1.5	--
EW-1	12/04/13	4"	120 - 145	145	3987.79	131.68	3858.25	128.84	2.84	2.0	--
EW-1	12/12/13	4"	120 - 145	145	3987.79	132.20	3858.17	128.77	3.43	3.0	--
EW-1	12/30/13	4"	120 - 145	145	3987.79	131.82	3858.26	128.78	3.04	1.5	--
EW-1	02/11/14	4"	120 - 145	145	3987.79	132.34	3858.23	128.64	3.70	--	--
EW-1	02/25/14	4"	120 - 145	145	3987.79	132.51	3858.11	128.75	3.76	3.0	0.5
EW-1	02/25/14	4"	120 - 145	145	3987.79	129.92	3858.16	129.54	0.38	--	--
EW-1	03/13/14	4"	120 - 145	145	3987.79	132.19	3858.01	128.98	3.21	3.0	0.25
EW-1	03/27/14	4"	120 - 145	145	3987.79	130.02	3857.93	129.81	0.21	--	--
EW-1	04/10/14	4"	120 - 145	145	3987.79	131.12	3857.92	129.46	1.66	1.8	--
EW-1	04/10/14	4"	120 - 145	145	3987.79	130.06	3857.91	129.82	0.24	--	--
EW-1	04/24/14	4"	120 - 145	145	3987.79	131.11	3857.79	129.63	1.48	1.5	--
EW-1	04/24/14	4"	120 - 145	145	3987.79	130.07	3857.80	129.96	0.11	--	--
EW-1	05/08/14	4"	120 - 145	145	3987.79	130.82	3857.86	129.63	1.19	0.8	--
EW-1	05/08/14	4"	120 - 145	145	3987.79	130.04	3857.87	129.88	0.16	--	--
EW-1	06/19/14	4"	120 - 145	145	3987.79	131.08	3857.80	129.63	1.45	1.5	--
EW-1	06/19/14	4"	120 - 145	145	3987.79	130.08	3857.82	129.93	0.15	--	--
EW-1	07/03/14	4"	120 - 145	145	3987.79	130.69	3857.83	129.72	0.97	0.8	--
EW-1	07/03/14	4"	120 - 145	145	3987.79	130.09	3857.82	129.93	0.16	--	--
EW-1	08/01/14	4"	120 - 145	145	3987.79	130.77	3857.83	129.69	1.08	0.5	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
EW-1	08/01/14	4"	120 - 145	145	3987.79	130.17	3857.86	129.85	0.32	--	--
EW-1	08/28/14	4"	120 - 145	145	3987.79	130.73	3857.74	129.83	0.90	0.8	--
EW-1	08/28/14	4"	120 - 145	145	3987.79	130.29	3857.76	129.94	0.35	--	--
EW-1	09/11/14	4"	120 - 145	145	3987.79	130.99	3857.58	129.95	1.04	0.8	--
EW-1	09/11/14	4"	120 - 145	145	3987.79	130.28	3857.59	130.17	0.11	--	--
EW-1	09/25/14	4"	120 - 145	145	3987.79	130.68	3857.52	130.14	0.54	0.5	--
EW-1	09/25/14	4"	120 - 145	145	3987.79	130.40	3857.50	130.25	0.15	--	--
EW-1	10/24/14	4"	120 - 145	145	3987.79	130.53	3857.49	130.22	0.31	0.3	--
EW-1	10/27/14	4"	120 - 145	145	3987.79	130.45	3857.53	130.20	0.25	--	--
EW-1	01/13/15	4"	120 - 145	145	3987.79	130.55	3857.35	130.40	0.15	0.3	--
EW-1	01/29/15	4"	120 - 145	145	3987.79	130.84	3857.32	130.35	0.49	0.5	--
EW-1	02/10/15	4"	120 - 145	145	3987.79	130.62	3857.44	130.26	0.36	0.3	--
EW-1	02/24/15	4"	120 - 145	145	3987.79	130.44	3857.60	130.11	0.33	0.8	0.25
EW-1	03/12/15	4"	120 - 145	145	3987.79	130.65	3857.36	130.36	0.29	0.1	--
EW-1	03/26/15	4"	120 - 145	145	3987.79	130.81	3857.21	130.50	0.31	0.4	--
EW-1	04/09/15	4"	120 - 145	145	3987.79	130.73	3857.26	130.46	0.27	0.1	--
EW-1	04/21/15	4"	120 - 145	145	3987.79	130.67	3857.26	130.49	0.18	trace	--
EW-1	05/06/15	4"	120 - 145	145	3987.79	130.67	3857.29	130.45	0.22	0.1	--
EW-1	05/21/15	4"	120 - 145	145	3987.79	130.69	3857.24	130.51	0.18	0.5	--
EW-1	06/04/15	4"	120 - 145	145	3987.79	130.60	3857.28	130.48	0.12	0.1	--
EW-1	07/02/15	4"	120 - 145	145	3987.79	130.74	3857.16	130.59	0.15	3.0	--
EW-1	07/16/15	4"	120 - 145	145	3987.79	130.80	3857.08	130.68	0.12	0.1	--
EW-1	07/30/15	4"	120 - 145	145	3987.79	134.46	3853.53	134.20	0.26	--	--
EW-1	08/28/15	4"	120 - 145	145	3987.79	130.74	3857.12	130.65	0.09	1.8	1428
EW-1	09/10/15	4"	120 - 145	145	3987.79	130.87	3856.94	130.84	0.03	--	--
EW-1	09/25/15	4"	120 - 145	145	3987.79	130.80	3857.02	130.76	0.04	--	--
EW-1	10/08/15	4"	120 - 145	145	3987.79	130.75	3857.06	130.73	0.02	0.1	--
EW-1	10/26/15	4"	120 - 145	145	3987.79	130.56	3857.25	130.54	0.02	--	--
EW-1	11/05/15	4"	120 - 145	145	3987.79	130.75	3857.04	--	--	--	--
EW-1	01/14/16	4"	120 - 145	145	3987.79	130.90	3856.89	--	--	--	--
EW-1	02/25/16	4"	120 - 145	145	3987.79	131.13	3856.66	--	--	--	--
EW-1	02/29/16	4"	120 - 145	145	3987.79	131.13	3856.67	131.12	0.01	--	--
EW-1	03/10/16	4"	120 - 145	145	3987.79	131.11	3856.68	--	--	--	--
EW-1	03/22/16	4"	120 - 145	145	3987.79	131.10	3856.69	--	--	--	--
EW-1	04/04/16	4"	120 - 145	145	3987.79	131.26	3856.53	--	--	--	--
EW-1	04/21/16	4"	120 - 145	145	3987.79	131.22	3856.57	--	--	--	--
EW-1	05/20/16	4"	120 - 145	145	3987.79	131.32	3856.47	--	--	--	--
EW-1	06/02/16	4"	120 - 145	145	3987.79	131.32	3856.48	131.31	0.01	--	--
EW-1	06/16/16	4"	120 - 145	145	3987.79	131.36	3856.44	131.35	0.01	1.5	--
EW-1	06/30/16	4"	120 - 145	145	3987.79	131.51	3856.39	131.36	0.15	1.5	--
EW-1	07/14/16	4"	120 - 145	145	3987.79	131.15	3856.64	--	--	--	--
EW-1	07/25/16	4"	120 - 145	145	3987.79	130.99	3856.80	--	--	--	--
EW-1	08/22/16	4"	120 - 145	145	3987.79	130.92	3856.87	--	--	--	--
EW-1	09/09/16	4"	120 - 145	145	3987.79	130.93	3856.86	--	--	--	--
EW-1	09/22/16	4"	120 - 145	145	3987.79	131.07	3856.72	--	--	--	--
EW-1	10/06/16	4"	120 - 145	145	3987.79	131.08	3856.71	--	--	--	--
EW-1	10/20/16	4"	120 - 145	145	3987.79	130.65	3857.14	--	--	--	--
EW-1	11/03/16	4"	120 - 145	145	3987.79	130.55	3857.24	--	--	--	--
EW-1	11/16/16	4"	120 - 145	145	3987.79	130.41	3857.38	--	--	--	--
EW-1	11/28/16	4"	120 - 145	145	3987.79	130.50	3857.29	--	--	--	--
EW-1	12/15/16	4"	120 - 145	145	3987.79	130.53	3857.26	--	--	--	--
EW-1	02/28/17	4"	120 - 145	145	3987.79	130.21	3857.58	--	--	--	--
EW-1	03/08/17	4"	120 - 145	145	3987.79	133.75	3854.04	--	--	--	--
EW-1	03/25/17	4"	120 - 145	145	3987.79	133.70	3854.09	--	--	--	--
EW-1	04/13/17	4"	120 - 145	145	3987.79	129.98	3857.81	--	--	--	--
EW-1	05/01/17	4"	120 - 145	145	3987.79	129.85	3857.94	--	--	--	--
EW-1	06/12/17	4"	120 - 145	145	3987.79	129.80	3857.99	--	--	--	--
EW-1	06/26/17	4"	120 - 145	145	3987.79	129.66	3858.13	--	--	--	--
EW-1	07/24/17	4"	120 - 145	145	3987.79	124.92	3863.01	124.74	0.18	--	--
EW-1	08/07/17	4"	120 - 145	145	3987.79	--	--	--	--	trace	--
EW-1	08/28/17	4"	120 - 145	145	3987.79	130.42	3857.94	129.66	0.76	0.1	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
EW-1	09/20/17	4"	120 - 145	145	3987.79	130.24	3858.03	129.60	0.64	--	--
EW-1	10/16/17	4"	120 - 145	145	3987.79	130.23	3858.03	129.60	0.63	0.1	--
EW-1	10/31/17	4"	120 - 145	145	3987.79	130.28	3858.02	129.60	0.68	0.3	--
EW-1	11/13/17	4"	120 - 145	145	3987.79	130.37	3858.00	129.60	0.77	0.2	--
EW-1	11/27/17	4"	120 - 145	145	3987.79	130.50	3857.97	129.60	0.90	0.1	--
EW-1	12/11/17	4"	120 - 145	145	3987.79	130.48	3857.98	129.59	0.89	0.5	--
EW-1	01/02/18	4"	120 - 145	145	3987.79	130.70	3857.90	129.62	1.08	1.0	--
EW-1	01/08/18	4"	120 - 145	145	3987.79	130.81	3857.90	129.58	1.23	1.0	--
EW-1	01/24/18	4"	120 - 145	145	3987.79	131.24	3857.68	129.74	1.50	0.75	--
EW-1	02/05/18	4"	120 - 145	145	3987.79	130.79	3857.89	129.56	1.18	0.20	--
EW-1	02/23/18	4"	120 - 145	145	3987.79	130.51	3858.02	129.53	0.98	0.50	--
EW-1	03/05/18	4"	120 - 145	145	3987.79	130.61	3857.86	129.70	0.91	0.50	--
EW-1	04/03/18	4"	120 - 145	145	3987.79	130.71	3857.85	129.69	1.02	--	--
EW-1	04/16/18	4"	120 - 145	145	3987.79	130.79	3857.94	129.54	1.25	0.50	--
EW-1	04/30/18	4"	120 - 145	145	3987.79	131.03	3857.83	129.61	1.42	0.30	--
EW-1	05/14/18	4"	120 - 145	145	3987.79	131.18	3857.78	129.63	1.55	0.40	--
EW-1	06/01/18	4"	120 - 145	145	3987.79	130.44	3857.93	129.67	0.77	2.00	--
EW-1	06/11/18	4"	120 - 145	145	3987.79	131.67	3857.60	129.70	1.97	2.00	--
EW-1	06/25/18	4"	120 - 145	145	3987.79	132.14	3857.33	129.91	2.23	1.50	--
EW-1	07/09/18	4"	120 - 145	145	3987.79	132.28	3857.30	129.90	2.38	1.60	--
EW-1	07/23/18	4"	120 - 145	145	3987.79	132.37	3857.28	129.90	2.47	1.00	--
EW-1	08/06/18	4"	120 - 145	145	3987.79	132.30	3857.29	129.91	2.39	1.50	--
EW-1	08/20/18	4"	120 - 145	145	3987.79	132.22	3857.31	129.91	2.31	1.25	--
EW-1	08/27/18	4"	120 - 145	145	3987.79	132.18	3857.38	129.83	2.35	--	--
EW-1	09/05/18	4"	120 - 145	145	3987.79						
EW-1	10/01/18	4"	120 - 145	145	3987.79	132.27	3857.32	129.88	2.39	1.75	--
EW-1	10/15/18	4"	120 - 145	145	3987.79	131.97	3857.39	129.88	2.09	3.50	--
EW-1	11/13/18	4"	120 - 145	145	3987.79	132.13	3857.29	129.96	2.17	2.50	--
EW-1	12/03/18	4"	120 - 145	145	3987.79	132.67	3857.11	130.03	2.64	2.00	--
EW-1	12/11/18	4"	120 - 145	145	3987.79	132.80	3857.10	130.00	2.80	1.25	--
EW-1	01/28/19	4"	120 - 145	145	3987.79	133.50	3856.85	130.09	3.41	--	--
EW-1	03/05/19	4"	120 - 145	145	3987.79	134.03	3856.44	130.47	3.56	3.50	--
EW-1	3/18/19	4"	120 - 145	145	3987.79	133.99	3856.51	130.39	3.60	3.50	2
EW-1	4/5/19	4"	120 - 145	145	3987.79	133.94	3856.52	130.39	3.55	3.00	--
EW-1	4/18/19	4"	120 - 145	145	3987.79	133.91	3856.44	130.51	3.40	3.50	--
EW-1	4/29/19	4"	120 - 145	145	3987.79	133.86	3856.48	130.47	3.39	3.50	--
EW-1	5/29/19	4"	120 - 145	145	3987.79	133.87	3856.49	130.45	3.42	2.10	--
EW-1	6/10/19	4"	120 - 145	145	3987.79	133.83	3856.46	130.50	3.33	1.25	--
EW-1	6/24/19	4"	120 - 145	145	3987.79	133.62	3856.60	130.39	3.23	0.50	--
EW-1	7/12/19	4"	120 - 145	145	3987.79	133.87	3856.51	130.42	3.45	3.30	0.3
EW-1	7/22/19	4"	120 - 145	145	3987.79	133.92	3856.42	130.53	3.39	2.00	1
EW-1	8/5/19	4"	120 - 145	145	3987.79	133.91	3856.47	130.46	3.45	1.30	0.7
EW-1	8/19/19	4"	120 - 145	145	3987.79	133.97	3856.41	130.53	3.44	2.50	1
EW-1	9/6/19	4"	120 - 145	145	3987.79	133.92	3856.45	130.49	3.43	2.00	0.5
EW-1	9/16/19	4"	120 - 145	145	3987.79	133.95	3856.40	130.54	3.41	3.50	--
EW-1	9/30/19	4"	120 - 145	145	3987.79	133.97	3856.39	130.55	3.42	2.80	--
EW-1	12/16/19	4"	120 - 145	145	3987.79	134.31	3856.18	130.72	3.59	--	--
TW-11	04/05/10				3989.11	130.27	3858.84	--	--	--	--
TW-11	10/04/10				3989.11	130.59	3858.52	--	--	--	--
TW-11	01/12/11				3989.11	129.95	3859.16	--	--	--	--
TW-11	04/18/11				3989.11	131.12	3857.99	--	--	--	--
TW-11	10/18/11				3989.11	131.46	3857.65	--	--	--	--
TW-11	04/23/12				3989.11	130.71	3858.40	--	--	--	--
TW-11	11/05/12				3989.11	127.87	3861.24	--	--	--	--
TW-11	04/23/13				3989.11	127.85	3861.26	--	--	--	--
TW-11	10/21/13				3989.11	130.26	3858.85	--	--	--	--
TW-11	02/11/14				3989.11	128.95	3860.16	--	--	--	--
TW-11	10/27/14				3989.11	130.27	3858.84	--	--	--	--
TW-11	02/24/15				3989.11	130.09	3859.02	--	--	--	--
TW-11	10/26/15				3989.11	130.17	3858.94	--	--	--	--

APPENDIX C
SUMMARY OF HISTORICAL GROUNDWATER GAUGING DATA
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Well Diameter	Screened Interval ft toc	Total Depth ft toc	Casing Elevation ft msl	Depth To Water ft toc	Water Elevation ft msl	Depth to LNAPL ft toc	LNAPL Thickness ft	LNAPL Removed gal	Water Removed gal
TW-11	02/29/16				3989.11	131.44	3857.67	--	--	--	--
TW-11	08/22/16				3989.11	131.00	3858.11	--	--	--	--
TW-11	02/28/17				3989.11	129.90	3859.21	--	--	--	--
TW-11	08/28/17				3989.11	132.60	3856.51	--	--	--	--
TW-11	04/03/18				3989.11	129.18	3859.93	--	--	--	--
TW-11	08/27/18				3989.11	130.15	3858.96	--	--	--	--
TW-11	01/28/19				3989.11	131.50	3857.61	--	--	--	--
TW-11	12/16/19				3989.11	130.96	3858.15	--	--	--	--
TW-13	04/05/10				3988.73	130.56	3858.17	--	--	--	--
TW-13	10/04/10				3988.73	130.91	3857.82	--	--	--	--
TW-13	04/18/11				3988.73	131.50	3857.23	--	--	--	--
TW-13	10/18/11				3988.73	131.57	3857.16	--	--	--	--
TW-13	04/23/12				3988.73	130.73	3858.00	--	--	--	--
TW-13	11/05/12				3988.73	130.34	3858.39	--	--	--	--
TW-13	04/23/13				3988.73	130.43	3858.30	--	--	--	--
TW-13	10/21/13				3988.73	132.37	3856.36	--	--	--	--
TW-13	02/11/14				3988.73	131.65	3857.08	--	--	--	--
TW-13	10/27/14				3988.73	132.67	3856.06	--	--	--	--
TW-13	02/24/15				3988.73	132.94	3855.79	--	--	--	--
TW-13	10/26/15				3988.73	133.15	3855.58	--	--	--	--
TW-13	02/29/16				3988.73	133.92	3854.81	--	--	--	--
TW-13	08/22/16				3988.73	133.13	3855.60	--	--	--	--
TW-13	02/28/17				3988.73	132.40	3856.33	--	--	--	--
TW-13	08/28/17				3988.73	132.01	3856.72	--	--	--	--
TW-13	04/03/18				3988.73	131.77	3856.96	--	--	--	--
TW-13	08/27/18				3988.73	132.45	3856.28	--	--	--	--
TW-13	01/28/19				3988.73	133.55	3855.18	--	--	--	--
TW-13	12/16/19				3988.73	133.82	3854.91	--	--	--	--
TW-20	11/05/12				3988.40	130.40	3858.00	--	--	--	--
TW-20	04/23/13				3988.40	133.25	3855.15	--	--	--	--
TW-20	10/21/13				3988.40	132.59	3855.81	--	--	--	--
TW-20	02/11/14				3988.40	132.05	3856.35	--	--	--	--
TW-20	10/27/14				3988.40	----- not gauged -----				--	--
TW-20	02/24/15				3988.40	133.52	3854.88	--	--	--	--
TW-20	10/26/15				3988.40	133.70	3854.70	--	--	--	--
TW-20	02/29/16				3988.40	134.40	3854.00	--	--	--	--
TW-20	08/22/16				3988.40	133.41	3854.99	--	--	--	--
TW-20	02/28/17				3988.40	132.70	3855.70	--	--	--	--
TW-20	08/28/17				3988.40	132.08	3856.32				
TW-20	08/28/17				3988.40	132.08	3856.32	--	--	--	--
TW-20	04/03/18				3988.40	132.02	3856.38	--	--	--	--
TW-20	08/27/18				3988.40	132.52	3855.88	--	--	--	--
TW-20	01/28/19				3988.40	133.70	3854.70	--	--	--	--
TW-20	12/16/19				3988.40	134.13	3854.27	--	--	--	--

NOTES:

NG - not gauged

ft msl - feet above mean sea level

ft toc - feet below top of casing

LNAPL - light non-aqueous phase liquid

LNAPL was observed in MW-8 beginning in October 2010, in MW-19 beginning in May 2008, and in EW-1 beginning in October 2010; however, data regarding thickness of LNAPL is not available (Stantec, 2010, 2010 Groundwater Monitoring Report, Buckeye Compressor Station, Lea County, New Mexico, December 2010).

Well MW-25 and MW-26 were installed in April 2015.

APPENDIX D

Summary of Historical Groundwater Analytical Results



APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-1	6/19/02	1.74	0.024	<0.010	<0.010				97.5	458	
MW-1	10/9/02	3.56	<0.010	<0.010	<0.010						
MW-1	8/12/03	0.555	0.003	0.003	0.009						
MW-1	8/10/04	1.5	<0.010	0.008	0.014				100	603	
MW-1	2/18/05	1.74	<0.01	<0.01	<0.01				96.0	606	
MW-1	12/21/05	4.4	<0.007	0.017 J	<0.008				74.6		
MW-1	4/11/06	3.0	<0.002	6.3 J	<0.006				73.1		
MW-1	10/12/06	1.4	0.051	0.02300	0.019				81.9		
MW-1	5/1/07	2.3	<0.001	0.0046 J	0.0032 J				80.5	503	
MW-1	10/24/07	1.7	0.0014 J	0.0039 J	0.003				83.7		
MW-1	5/21/08	1.6	0.0055	0.0064	0.005 J				86.4		
MW-1	10/16/08	1.5	0.0017 J	0.0083	0.0066 J				79.7		
MW-1	4/20/09	1.7	0.0036 J	0.0076 J	0.0066 J				73.8		
MW-1	9/29/09	3.1	0.0027	0.0022	0.0059				71.1		
MW-1	4/6/10	4.0	<0.0040	0.0045 J	<0.012						
MW-1	10/7/10	3.3	0.0032 J	0.0013 J	0.0031 J						
MW-1	4/26/11	8.8	<0.0010	0.0022	0.0039	18.2	<0.050		62.5		
MW-1	10/20/11	6.2	<0.200	<0.100	<0.100	<1.50	1.84		63.4		
MW-1	4/26/12	3.94	<0.500	<0.250	<0.250	4.68	<1.50		67.7		
MW-1	11/9/12	1.10	<0.020	<0.010	<0.010	<1.50	<1.50		64.1		
MW-1	4/25/13	6.21	<0.100	<0.050	<0.050	6.57	<1.50				
MW-1	10/24/13	6.19	<0.0400	<0.0200	<0.0200	6.62	<1.50	6.62			
MW-1	2/14/14	7.25	<0.1000	<0.0500	<0.0500	5.00	<1.50	5.00			
MW-1	10/30/14	6.59	<0.0500	<0.2500	<0.0250	10.00	<1.48	10.00			
MW-1	3/3/15	5.56	<0.05000	<0.0250	<0.0250	6.58	<1.50	6.58			
MW-1	10/29/15	1.49	<0.040000	<0.020000	<0.0200	2.07	<1.41	2.07			
MW-1	3/3/16	1.50	<0.0400	<0.0200	<0.0200	2.24	<1.41	2.24			
MW-1	8/23/16	3.59	<0.0200	<0.0200	<0.0200	1.99	<1.50	1.99			
MW-1	3/3/17	0.0978	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-1	8/31/17	2.34	<0.100	<0.100	<0.100	<1.50	<1.50	<1.50			
MW-1	4/5/18	1.650	<0.00200	<0.00200	<0.00200	3.08	<1.50	3.08			
MW-1	8/29/18	2.94	<0.00200	<0.00200	<0.00200	4.00	<1.50	4.00			
MW-1	1/29/19	2.02	0.002	0.002	0.002	1.5	1.5	1.5			
MW-1	12/17/19	0.84	<0.00020	<0.00021	<0.00037	3	<1.50	3			
MW-2	6/19/02	1.15	<0.005	0.009	0.017				88.6	335	
MW-2	10/9/02	1.73	<0.010	0.017	0.040						
MW-2	8/12/03	0.947	<0.005	0.007	0.014						
MW-2	8/10/04	0.149	0.001	0.001	0.003				78	361	
MW-2	2/18/05	1.15	<0.010	0.0115	0.030				169		
MW-2	12/21/05	15.0	4.0	0.760	0.700				62.4		
MW-2	4/11/06	0.65	0.11	0.035	0.280				87.4		
MW-2	10/12/06	1.10	0.19	0.017	0.029				81.1		
MW-2	5/7/07	0.490	0.004 J	0.0023	0.009				80.8	469	
MW-2	10/24/07	0.90	0.0007 J	0.004	0.016				79.8		
MW-2	5/21/08	1.3	0.0035	0.004	0.014				100		
MW-2	10/16/08	0.67	0.0013 J	0.0013 J	0.011 J				92.3		
MW-2	4/20/09	0.74	0.0013 J	0.0013 J	0.015				63.5		
MW-2	9/29/09	0.62	0.020	0.0043	0.015				67.8		
MW-2	4/6/10	0.140	<0.0002	0.0002 J	0.0055						
MW-2	10/6/10	0.200	0.035	0.0044	0.0087						
MW-2	4/21/11	1.000	0.0033	<0.00020	<0.00070	1.99	0.051		62.0		
MW-2	10/19/11	0.993	<0.00200	<0.00100	<0.00100	<1.50	2.04		106		
MW-2	4/26/12	0.868	<0.500	<0.250	<0.250	<1.50	<1.50		129		
MW-2	11/12/12	0.709	0.0224	0.0122	0.0317	<1.50	<1.50		140		
MW-2	4/25/13	0.294	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-2	10/24/13	0.583	<0.0100	<0.00500	<0.00500	<1.50	<1.50	<1.50			
MW-2	2/13/14	0.174	<0.0020	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-2	10/30/14	0.0281	<0.0020	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-2	3/3/15	0.0712	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-2	10/29/15	0.00325	<0.0020	<0.00100	<0.00100	<1.41	<1.41	<1.41			

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-2	3/3/16	0.00216	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-2	8/23/16	0.0622	<0.00200	<0.00200	<0.00200	1.99	<1.50	<1.50			
MW-2	3/3/17	0.0447	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-2	8/31/17	0.757	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-2	4/5/18	0.315	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-2	8/29/18	0.249	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-2	1/29/19	0.0061	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-2	12/20/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-3	6/20/02	1.05	0.739	0.345	0.416				56.1		
MW-3	10/9/02	4.8	1.24	0.088	0.178						
MW-3	8/11/03	3.3	1.13	0.24	0.272						
MW-3	8/10/04	2.57	1.190	0.185	0.222				49.6		
MW-3	2/18/05										NS--H2S
MW-3	12/20/05										NS--H2S
MW-3	4/11/06	1.70	0.62	0.091	0.086				47.7		
MW-3	10/12/06	5.30	1.8	0.16	0.240				60.2		
MW-3	5/3/07	3.40	1.3	0.16	0.260				56.3	359	
MW-3	10/24/07										NS--no access
MW-3	5/20/08	1.40	0.085	0.034	0.045				63		
MW-3	10/16/08										No lab data
MW-3	4/16/09	0.46	0.061	0.011	0.020				54.9		
MW-3	9/29/09	0.50	0.091	0.012	0.019				52.8		
MW-3	4/6/10	0.570	0.190	0.021	0.028						
MW-3	10/6/10	0.430	0.160	0.017	0.025						
MW-3	4/21/11	6.600	1.100	0.088	0.120	14.5	0.026 J		41.7		
MW-3	10/19/11	7.05	0.372	0.391	0.480	11.1	2.200		43.8		
MW-3	4/24/12										NS--LNAPL
MW-3	11/12/12	7.06	0.822	0.249	0.204	11.8	<1.50		43.5		
MW-3	4/26/13	11.70	0.884	0.289	0.301	13.0	<1.50				
MW-3	10/22/13										NS--LNAPL
MW-3	2/11/14										NS--LNAPL
MW-3	10/27/14										NS--LNAPL
MW-3	2/24/15										NS--LNAPL
MW-3	10/28/15										NS--LNAPL
MW-3	2/29/16										NS--LNAPL
MW-3	8/23/16	6.60	0.0685	<0.100	0.242	6.19	1.75	7.94			
MW-3	3/3/17										NS--LNAPL
MW-3	8/30/17										NS--LNAPL
MW-3	4/5/18										NS--LNAPL
MW-3	8/29/18										NS--LNAPL
MW-3	1/29/19										NS--LNAPL
MW-3	12/20/19										NS--LNAPL
MW-4	6/20/02	0.001	<0.001	<0.001	<0.001				142	558	
MW-4	10/9/02	0.705	<0.005	0.005	0.011						
MW-4	8/13/03	2.39	<0.005	0.012	0.006						
MW-4	8/11/04	3.73	0.0409	0.077	0.037				44.3	329	
MW-4	2/18/05	6.85	0.004 J	0.043	0.024				43.0	312	
MW-4	12/20/05	4.80	<0.001	0.035	0.018				50.5		
MW-4	4/12/06	5.00	0.014	0.050	0.018 J				42.9		
MW-4	10/11/06	6.30	0.0031 J	0.039	0.020				52.6		
MW-4	4/30/07	14.00	0.0089 J	0.170	0.074				64.4	276	
MW-4	10/24/07	14.00	0.012	0.180	0.067				53.4		
MW-4	5/19/08	12.00	0.170	0.150	0.110				62.9		
MW-4	10/20/08	17.00	1.1	0.580	2.200				63.4		
MW-4	4/15/09	20.00	0.180	0.390	0.28 J				57.10		
MW-4	9/30/09	18.00	0.110	0.320	0.140 J				56.70		
MW-4	4/6/10	25.0	0.490	0.470	0.220 J						
MW-4	10/7/10	20.0	0.500	0.370	0.200						
MW-4	4/26/11	39.0	0.170	0.230	0.130	75.7	0.360		86.4		
MW-4	10/20/11	23.1	<0.200	0.128	<0.100	21.4	1.810		79		

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-4	4/26/12	16.6	<0.500	<0.250	<0.250	15.9	<1.50		77.1		
MW-4	11/7/12	19.2	0.464	0.113	0.449	18.6	<1.50		70.7		
MW-4	4/26/13	20.5	<0.200	<0.100	<0.100	18.8	<1.50				
MW-4	10/24/13	19.6	<0.100	0.167	0.0595	21.7	<1.50	21.7			
MW-4	2/14/14	19.9	<0.100	0.070	0.0500	30.5	<1.50	30.5			
MW-4	10/29/14	26.2	<0.200	0.202	<0.100	34.0	<1.48	34.0			
MW-4	3/3/15	23.4	<0.20001	0.177	<0.100	24.6	<1.50	24.6			
MW-4	10/28/15	9.52	0.141	0.051	0.0550	15.7	<1.41	15.7			
MW-4	3/3/16	5.77	0.0201	0.0450	0.0297	6.26	<1.41	6.26			
MW-4	8/24/16	6.81	<0.100	<0.100	<0.100	5.88	<1.50	5.88			
MW-4	3/1/17	4.20	<0.100	<0.100	<0.100	<1.50	<1.50	<1.50			
MW-4	8/31/17	6.19	<0.100	<0.100	<0.100	<1.50	<1.50	<1.50			
MW-4	4/4/18	12.80	<0.00200	0.00294	<0.00200	21.1	<1.50	21.1			
MW-4	8/28/18	9.76	<0.20000	<0.20000	<0.20000	13.7	<1.50	13.7			
MW-4	1/29/19	6.92	0.2	0.00228	0.00113	9.64	<1.50	<1.50			
MW-4	12/19/19	11.00	0.004	0.044	0.030 J	28.00	<1.50	28			
MW-4	12/19/19	12.00	0.004	0.044	0.030 J	33.00	<1.50	33			
MW-5	6/20/02	0.002	<0.001	<0.001	<0.001				160	521	
MW-5	10/9/02	0.489	<0.001	<0.001	<0.001						
MW-5	8/13/03	0.361	0.002	0.001	0.002						
MW-5	8/12/04	0.169	0.0005	0.0021	0.002				63.8	408	
MW-5	2/18/05	0.125	<0.001	0.001 J	0.002				48.8	397	
MW-5	12/21/05	0.30	<0.0007	0.002 J	0.002 J				36.1		
MW-5	4/12/06	0.04	0.014	0.0055	0.006				26.9		
MW-5	10/12/06	0.71	0.200	0.036	0.039				31.5		
MW-5	4/26/07	0.013	<0.0002	<0.0002	<0.0006				26.7	303	
MW-5	10/23/07	0.0083	<0.0002	<0.0002	<0.0006				25.6		
MW-5	5/20/08	0.066	0.0012	0.0086	0.011				30.1		
MW-5	10/20/08	0.012	0.0015	0.0003 J	<0.0006				37.3		
MW-5	4/21/09	0.028	0.0007 J	0.0018	0.0015 J				27.2		
MW-5	9/29/09	0.011	0.0008 J	<0.0002	<0.0006				25.9		
MW-5	4/6/10	0.037	0.0004 J	0.0003 J	<0.0006						
MW-5	10/5/10	0.019	<0.0002	<0.0002	<0.0006						
MW-5	4/21/11	0.0014	0.0025	<0.00020	<0.00070	<0.020	<0.020		20.5		
MW-5	10/18/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	1.87		25.4		
MW-5	4/25/12	0.0335	<0.00200	<0.00100	<0.00100	<1.50	<1.50		29.3		
MW-5	11/8/12	0.00901	<0.00200	<0.00100	<0.00100	<1.50	1.68		27.8		
MW-5	4/25/13	0.00819	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-5	10/23/13	0.0176	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-5	2/13/14	0.0574	<0.00200	<0.00100	0.00267	<1.50	<1.50	<1.50			
MW-5	10/29/14	0.0031	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-5	3/2/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-5	10/28/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-5	3/3/16										NS - construction
MW-5	8/25/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-5	3/2/17	0.00223	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-5	8/31/17	0.0609	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-5	4/5/18	0.0022	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-5	9/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-5	1/31/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-5	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-6	6/20/02	0.444	<0.001	<0.001	<0.001				28.4	329	
MW-6	10/9/02	5.45	<0.010	<0.010	0.032						
MW-6	8/12/03	1.63	<0.005	<0.005	0.010						
MW-6	8/10/04	0.827	0.001	0.001	0.006				24.8	318	
MW-6	2/18/05	1.62	<0.0050	<0.0050	0.000				31.9	368	
MW-6	12/21/05	1.8	<0.001	<0.002	0.005 J				25.8		
MW-6	4/11/06	1.5	0.330	0.043	0.049				49.5		
MW-6	10/12/06	2.2	<0.001	0.0028 J	0.015				39.1		

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-6	5/1/07	0.850	0.0050 J	0.0028	0.007				26.3	282	
MW-6	10/24/07	1.1	0.0005 J	0.0049	0.009				37.9		
MW-6	5/20/08	0.940	0.0012	0.0073	0.015				24.1		
MW-6	10/16/08	0.530	0.001 J	0.0023 J	0.0051 J				22.9		
MW-6	4/16/09	1.4	0.0003 J	0.0027	0.011				22.1		
MW-6	9/29/09	1.9	0.0035	0.0054	0.025				27		
MW-6	4/6/10	1.600	0.0004 J	0.0083	0.028						
MW-6	10/7/10	0.460	0.0051	0.0015	0.0063						
MW-6	4/21/11	0.800	0.0031	<0.00020	0.00089 J	1.60	<0.020		27.5		
MW-6	10/20/11	0.289	<0.00200	<0.00100	<0.00100	<1.50	2.21		40.9		
MW-6	4/27/12	0.250	<0.00200	<0.00100	<0.00100	<1.50	<1.50		50.0		
MW-6	11/12/12	0.807	<0.02000	<0.01000	<0.01000	<1.50	<1.50		52.1		
MW-6	4/26/13	0.628	<0.01000	<0.00500	<0.00500	<1.50	<1.50				
MW-6	10/24/13	1.04	<0.0100	<0.00500	<0.00500	2.10	<1.50	2.10			
MW-6	2/13/14	0.23	<0.0020	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-6	10/30/14	0.0392	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-6	3/3/15	0.0355	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-6	10/29/15	0.132	<0.0020	<0.00100	<0.00100	<1.51	<1.41	<1.51			
MW-6	3/3/16	0.0177	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-6	8/24/16	0.208	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-6	3/3/17	0.0275	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-6	9/1/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-6	4/6/18	0.109	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-6	8/29/18	0.480	<0.0400	<0.0400	<0.0400	<1.50	<1.50	<1.50			
MW-6	1/29/19	0.0188	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-6	12/20/19	0.013	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-7	6/20/02	0.001	<0.001	<0.001	<0.001				31.9	337	
MW-7	10/9/02	0.086	<0.001	<0.001	0.001						
MW-7	8/12/03	0.241	<0.001	<0.001	0.002						
MW-7	8/10/04	0.0436	<0.001	<0.001	<0.001				19.5	322	
MW-7	2/18/05	0.0375	<0.001	<0.001	<0.001				23.5	387	
MW-7	12/21/05	0.012	<0.0007	<0.0008	<0.0008				18.0		
MW-7	4/12/06	0.1	0.043	0.0086	0.008				16.9		
MW-7	10/12/06	0.13	0.0002 J	0.0006 J	0.0009 J				31.9		
MW-7	5/1/07	<0.0002	<0.0002	<0.0002	<0.0006				18.4	293	
MW-7	10/24/07	0.17	0.0003 J	0.010	0.004				18.5		
MW-7	5/20/08	0.045	0.0009 J	0.0066	0.009				19.8		
MW-7	10/15/08	0.0032	0.0003 J	<0.0002	<0.0006				18.2		
MW-7	4/16/09	0.009	<0.0002	<0.0002	<0.0006				15.6		
MW-7	9/29/09	0.0023	0.0009 J	<0.0002	<0.0006				16		
MW-7	4/5/10	0.0040	0.0003 J	<0.0002	<0.0006						
MW-7	10/5/10	0.0066	<0.0002	<0.0002	<0.0006						
MW-7	4/20/11	<0.00020	0.0046	<0.00020	<0.00070	<0.020	<0.020		19.0		
MW-7	10/20/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		20.7		
MW-7	4/24/12	<0.00100	0.00405	<0.00100	<0.00100	<1.50	<1.50		20.8		
MW-7	11/12/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		17.8		
MW-7	4/24/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-7	10/23/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-7	2/13/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-7	10/29/14	0.00408	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-7	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-7	10/29/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-7	3/3/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-7	8/24/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-7	3/3/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-7	9/1/17	1.05	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-7	4/6/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-7	8/29/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-7	1/29/19	0.00061	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-7	12/20/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-8	6/20/02	1.23	<0.005	0.046	0.021				31.9	359	
MW-8	10/9/02	0.579	<0.005	0.031	0.018						
MW-8	8/12/03	0.673	0.001	0.010	0.013						
MW-8	8/10/04	0.441	0.001	0.047	0.015				42.1	392	
MW-8	2/18/05	2.32	0.010 J	0.048	0.021				56.3	532	
MW-8	12/21/05	4.6	0.051	0.460	0.120				56.1		
MW-8	4/11/06	3.4	0.170	0.170	0.072				50.6		
MW-8	10/12/06	4.3	0.180	0.260	0.098				49.3		
MW-8	5/1/07	4.1	0.016	0.200	0.093				48.9	429	
MW-8	10/24/07	4.4	0.018	0.220	0.086				52.9		
MW-8	5/21/08	1.7	0.049	0.038	0.033				48.2		
MW-8	10/16/08	5.3	0.0068 J	0.140	0.081				53.6		
MW-8	4/20/09	6.1	0.130	0.200	0.110				46.9		
MW-8	9/30/09	4.0	0.0085	0.120	0.067				42.8		
MW-8	4/6/10	2.9	0.120	0.091	0.062						
MW-8	10/5/10										NS--LNAPL
MW-8	4/18/11										NS--LNAPL
MW-8	10/18/11										NS--LNAPL
MW-8	4/23/12										NS--LNAPL
MW-8	11/5/12										NS--LNAPL
MW-8	4/23/13										NS--LNAPL
MW-8	10/22/13										NS--LNAPL
MW-8	2/11/14										NS--LNAPL
MW-8	10/27/14										NS--LNAPL
MW-8	2/24/15										NS--LNAPL
MW-8	10/26/15										NS--LNAPL
MW-8	2/29/16										NS--LNAPL
MW-8	8/22/16										NS--LNAPL
MW-8	3/3/17										NS--LNAPL
MW-8	8/31/17	3.25	2.92	0.728	1.11	24.5	8.17	35.6			
MW-8	4/3/18										NS--LNAPL
MW-8	8/29/18	3.62	1.37	0.292	0.40	24.8	2.85	27.7			
MW-8	1/29/19	1.67	0.0147	0.0618	0.0886	6.77	1.02	7.79			
MW-8	12/16/19										NS--LNAPL
MW-9	10/9/02	0.004	0.001	<0.001	0.023						
MW-9	8/12/03	0.083	0.002	<0.001	0.007						
MW-9	8/10/04	0.004	0.001	0.0003	0.002				230	915	
MW-9	2/18/05	0.001 J	<0.001	0.0002 J	0.009				34.0	625	
MW-9	12/21/05	0.001 J	<0.0007	<0.0008	0.019				23.9		
MW-9	4/11/06	0.30	0.150	0.027	0.032				77.5		
MW-9	10/12/06	0.46	0.093	0.025	0.025				58.8		
MW-9	5/1/07	0.710	0.0005 J	0.0021	0.003				136	677	
MW-9	10/24/07	0.11	<0.001	0.0057	0.012				31.2		
MW-9	5/21/08	2.70	0.016	0.0072	0.0093 J				95.1		
MW-9	10/16/08										NS--no access
MW-9	4/20/09	2.60	0.0075 J	0.017	0.012 J				110		
MW-9	9/30/09	3.20	0.0021	0.0025	0.0023 J				141		
MW-9	4/6/10	5.500	0.057	0.061	0.081						
MW-9	10/7/10	3.100	0.027	0.072	0.013 J						
MW-9	4/26/11	4.700	0.069	0.059	0.011	9.320	<0.050		155		
MW-9	10/18/11										NS--LNAPL
MW-9	4/23/12										NS--LNAPL
MW-9	11/5/12										NS--LNAPL
MW-9	4/23/13										NS--LNAPL
MW-9	10/22/13										NS--LNAPL
MW-9	2/11/14										NS--LNAPL
MW-9	10/27/14										NS--LNAPL
MW-9	2/24/15										NS--LNAPL
MW-9	10/26/15										NS--LNAPL
MW-9	2/29/16										NS--LNAPL

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-9	8/22/16										NS--LNAPL
MW-9	3/3/17										NS--LNAPL
MW-9	8/30/17										NS--LNAPL
MW-9	4/3/18										NS--LNAPL
MW-9	8/29/18										NS--LNAPL
MW-9	1/29/19										NS--LNAPL
MW-9	12/19/19										NS--LNAPL
MW-10	10/8/02	0.029	<0.001	<0.001	<0.001						
MW-10	8/12/03	0.060	<0.001	<0.001	<0.001						
MW-10	8/11/04	0.050	0.0002	0.0004	0.001				35.4	328	
MW-10	2/18/05	0.022	<0.001	<0.001	<0.001				36.5	380	
MW-10	12/20/05	0.024	<0.0007	0.002 J	0.002 J				48.1		
MW-10	4/11/06	0.0033	0.0003 J	<0.0002	<0.0006				38.4		
MW-10	10/11/06	0.0037	<0.0002	<0.0002	<0.0006				33.3		
MW-10	4/26/07	0.0002 J	<0.0002	<0.0002	<0.0006				41.8	311	
MW-10	10/22/07	<0.0002	<0.0002	<0.0002	<0.0006				30.2		
MW-10	5/16/08	0.0041	<0.0002	0.001	<0.0006				32.5		
MW-10	10/14/08	<0.005	0.0003 J	<0.0002	<0.0006				33.1		
MW-10	4/16/09	0.034	0.0005 J	0.002	0.0015 J				31.7		
MW-10	9/29/09	0.0032	0.0018	0.0005 J	<0.0006				30.9		
MW-10	4/6/10	0.0044	0.0003 J	<0.0002	<0.0006						
MW-10	10/5/10	0.0051	<0.0002	<0.0002	<0.0006						
MW-10	4/20/11	<0.00020	0.0015	<0.00020	<0.00070	<0.020	<0.020		42.7		
MW-10	10/20/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		38.0		
MW-10	4/25/12	<0.00100	0.00311	<0.00100	<0.00100	<1.50	<1.50		37.5		
MW-10	11/8/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		30.1		
MW-10	4/24/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-10	10/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-10	2/12/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-10	10/29/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-10	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-10	10/28/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-10	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-10	8/26/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-10	3/2/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-10	8/30/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-10	4/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-10	9/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-10	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-11	10/8/02	<0.001	<0.001	<0.001	<0.001						
MW-11	8/13/03	<0.001	<0.001	<0.001	<0.001						
MW-11	8/11/04	<0.001	<0.001	<0.001	<0.001				47.9	340	
MW-11	2/18/05	<0.001	<0.001	<0.001	<0.001				50.1	441	
MW-11	12/20/05	0.0006 J	<0.0007	<0.0008	<0.0008				43.1		
MW-11	4/11/06	0.0009 J	0.0002 J	<0.0002	<0.0006				39.8		
MW-11	10/11/06	0.0005 J	0.0003 J	<0.0002	<0.0006				56.1		
MW-11	4/26/07	0.0003 J	<0.0002	<0.0002	<0.0006				70.6	268	
MW-11	10/22/07	<0.0002	<0.0002	<0.0002	<0.0006				38.7		
MW-11	5/14/08	0.0014	<0.0002	0.0007 J	<0.0006				65		
MW-11	10/14/08	0.0003 J	0.0002 J	<0.0002	<0.0006				97.4		
MW-11	04/16/09										Destroyed
MW-12	10/8/02	<0.001	<0.001	<0.001	<0.001						
MW-12	8/13/03	<0.001	<0.001	<0.001	<0.001						
MW-12	8/11/04	<0.001	<0.001	<0.001	<0.001				40.8	324	
MW-12	2/18/05	0.001 J	<0.001	<0.001	<0.001				45.2	378	
MW-12	12/20/05	<0.0005	<0.0007	<0.0008	<0.0008				41.3		
MW-12	4/11/06	0.0007 J	<0.0002	<0.0002	<0.0006				37.2		
MW-12	10/11/06	<0.0002	0.0002 J	<0.0002	<0.0006				103		

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-12	4/26/07	<0.0002	<0.0002	<0.0002	<0.0006				41	263	
MW-12	10/22/07	0.0002 J	<0.0002	<0.0002	<0.0006				65.2		
MW-12	5/14/08	0.0009 J	<0.0002	0.0006 J	<0.0006				45.9		
MW-12	10/14/08	0.0002 J	0.0003 J	0.0002 J	<0.0006				49.2		
MW-12	4/16/09	0.066	0.0008 J	0.0028	0.0021 J				46.4		
MW-12	9/30/09	0.0045	0.0024	0.0006 J	0.0006 J				40.1		
MW-12	4/6/10	0.0005 J	<0.0002	<0.0002	<0.0006						
MW-12	10/6/10	0.0012	<0.0002	<0.0002	<0.0006						
MW-12	4/19/11	<0.00020	0.0043	<0.00020	<0.00070	<0.020	<0.020		45.5		
MW-12	10/19/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		46.3		
MW-12	4/25/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		45.1		
MW-12	11/12/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		38.5		
MW-12	4/23/13										NS--well damaged
MW-12	10/22/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-12	2/11/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-12	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-12	2/25/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	6.32	6.32			
MW-12	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-12	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-12	8/25/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-12	3/3/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-12	8/29/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-12	4/3/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50		529	
MW-12	8/29/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-12	1/31/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-12	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-13	10/8/02	0.065	<0.001	<0.001	<0.001						
MW-13	8/13/03	0.060	0.002	<0.001	<0.001						
MW-13	8/11/04	0.004	<0.001	<0.001	<0.001				62.0	400	
MW-13	2/18/05	0.003	<0.001	<0.001	<0.001				72.4	427	
MW-13	12/20/05	0.038	<0.0007	<0.0008	<0.0008				86.4		
MW-13	4/12/06	0.170	0.015	0.005	0.005				115		
MW-13	10/11/06	0.0039	<0.0002	<0.0002	<0.0006				103		
MW-13	5/3/07	0.031	0.0005 J	0.0008 J	0.0011 J				114	495	
MW-13	10/22/07										NS--obstructed
MW-13	5/20/08	0.380	0.0062	0.0049	0.004				112		
MW-13	10/20/08	0.028	0.0018	0.0003 J	0.0008 J				114		
MW-13	4/16/09	0.037	<0.0002	<0.0002	0.0007 J				112		
MW-13	9/30/09	0.025	0.0015	0.0007 J	0.0022 J				101		
MW-13	4/6/10	0.0030	0.0002 J	<0.0002	<0.0006						
MW-13	10/5/10	0.0042	<0.0002	<0.0002	<0.0006						
MW-13	4/20/11	<0.00020	0.0016	<0.00020	<0.00070	<0.020	<0.020		76.5		
MW-13	10/20/11	0.00139	<0.00200	<0.00100	<0.00100	<1.50	<1.50		75.0		
MW-13	4/26/12	0.00158	0.00288	<0.00100	<0.00100	<1.50	<1.50		81.1		
MW-13	11/7/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		76.7		
MW-13	4/25/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-13	10/24/13	0.0192	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-13	2/11/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-13	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-13	2/25/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-13	10/27/15	<0.00100	<0.00200	<0.00100		<1.41	<1.41	<1.41			
MW-13	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-13	8/25/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-13	3/1/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-13	8/30/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-13	4/4/18	0.00202	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-13	8/28/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-13	1/30/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-13	12/18/19	<0.00018	<0.00020	<0.00021	<0.000237	<1.50	<1.50	<1.50			

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-14	10/9/02	3.63	0.014	0.098	0.187						
MW-14	8/13/03	1.65	0.014	0.165	0.260						
MW-14	8/11/04	0.786	0.0464	0.172	0.227				111	791	
MW-14	2/18/05	1.34	0.0378	0.159	0.178				103	916	
MW-14	12/20/05	2.80	0.049	0.750	0.670				82.1		
MW-14	4/12/06	0.93	0.053	0.055	0.053				30.7		
MW-14	10/12/06										NS
MW-14	4/30/07	0.880	0.005 J	0.200	0.280				29.8	669	
MW-14	10/23/07	0.77	0.0057	0.160	0.210				21.8		
MW-14	5/20/08	0.970	0.0067	0.180	0.210				20.1		
MW-14	10/20/08	1.50	0.027	0.220	0.270				26.2		
MW-14	4/16/09	0.86	0.0051	0.140	0.240				17.2		
MW-14	9/29/09	0.56	0.012	0.057	0.160				14.8		
MW-14	4/6/10	0.540	0.0042	0.083	0.180						
MW-14	10/6/10	0.170	0.028	0.0068	0.086						
MW-14	4/20/11	0.460	0.0022	0.00088 J	0.0035	1.04	0.69		31.4		
MW-14	10/19/11	1.48	<0.200	<0.100	<0.100	<1.50	1.560		55.9		
MW-14	4/26/12	0.487	<0.0400	<0.0200	<0.0200	<1.50	<1.50		55.8		
MW-14	11/7/12	0.104	<0.00200	<0.00100	<0.00100	<1.50	<1.50		69.7		
MW-14	4/25/13	0.203	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-14	10/24/13	0.162	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-14	2/13/14	0.128	<0.00200	<0.00100	0.00300	<1.50	<1.50	<1.50			
MW-14	10/29/14	0.00813	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-14	3/2/15	0.0194	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-14	10/28/15	0.0186	<0.00200	<0.00100	<0.00100	<1.41	<2.13	<2.13			
MW-14	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	1.9	<1.41	1.9			
MW-14	8/24/16	0.00676	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-14	3/1/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-14	8/31/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-14	4/4/18	0.00766	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-14	8/28/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-14	1/30/19	0.00904	0.002	0.002	0.002	0.002	<1.50	<1.50			
MW-14	12/19/19	0.001	<0.00020	<0.00021	0.00080 J	<1.50	<1.50	<1.50			
MW-15	10/9/02	<0.001	<0.001	<0.001	<0.001						
MW-15	8/13/03	<0.001	<0.001	<0.001	<0.001						
MW-15	8/12/04	<0.001	<0.001	<0.001	<0.001				60.3	450	
MW-15	2/18/05	<0.001	<0.001	<0.001	<0.001				78.0	462	
MW-15	12/20/05	0.006	<0.0007	0.003 J	0.002 J				79.2		
MW-15	4/12/06	0.58	0.054	0.018	0.016				54.8		
MW-15	10/11/06	0.034	<0.0002	0.0008 J	<0.0006				91.6		
MW-15	4/30/07	0.0005 J	<0.0002	<0.0002	<0.0006				94.7	433	
MW-15	10/23/07	0.0011	<0.0002	<0.0002	<0.0006				88.3		
MW-15	5/19/08	<0.0002	<0.0002	0.0003 J	<0.0006				99.5		
MW-15	10/14/08	0.0012	0.0021	0.0007 J	0.0016 J				78.6		
MW-15	4/15/09	<0.0002	<0.0002	<0.0002	<0.0006				79.7		
MW-15	9/29/09	0.0065	0.0030	0.0007 J	0.0008 J				84.0		
MW-15	4/5/10	0.0082	0.0003 J	<0.0002	0.0007 J						
MW-15	10/5/10	0.029	<0.0002	<0.0002	0.0011 J						
MW-15	4/26/11	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050		95.1		
MW-15	10/19/2011	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		70.8		
MW-15	4/25/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		78.1		
MW-15	11/8/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		76.6		
MW-15	4/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-15	10/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-15	2/12/14	0.00134	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-15	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-15	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-15	10/28/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-15	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-15	8/24/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-15	3/2/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-15	8/31/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-15	4/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-15	9/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-15	1/30/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-15	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-16	10/23/03	<0.001	<0.001	<0.001	<0.001				60.3	381	
MW-16	8/12/04	<0.001	<0.001	<0.001	<0.001				56.6	346	
MW-16	2/18/05	<0.001	<0.001	<0.001	<0.001				60.0	596	
MW-16	12/20/05	0.007	<0.0007	0.002 J	0.001 J				48.3		
MW-16	4/12/06	0.11	0.024	0.011	0.010				33.3		
MW-16	10/11/06	0.064	<0.0002	0.001	0.0006 J				49.3		
MW-16	4/26/07	0.001 J	<0.0002	<0.0002	<0.0006				59.5	176	
MW-16	10/23/07	<0.0002	<0.0002	<0.0002	<0.0006				46.4		
MW-16	5/19/08	0.0007 J	<0.0002	0.0004 J	<0.0006				53.6		
MW-16	10/14/08	0.0007 J	0.0025	0.0005 J	0.0012 J				57.1		
MW-16	4/15/09	<0.0002	<0.0002	<0.0002	<0.0006				49.1		
MW-16	9/29/09	0.0094	0.0037	0.0007 J	0.0008 J				51.8		
MW-16	4/5/10	<0.0002	<0.0002	<0.0002	<0.0006						
MW-16	10/5/10	<0.0002	<0.0002	<0.0002	<0.0006						
MW-16	4/19/11	<0.00020	0.0030	<0.00020	<0.00070	<0.020	<0.020		53.1		
MW-16	10/18/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	1.64		53.6		
MW-16	4/24/12	<0.00100	0.00333	<0.00100	<0.00100	<1.50	<1.50		84.1		
MW-16	11/7/12	<0.00100	<0.00200	<0.00100	0.00600	<1.50	<1.50		53.7		
MW-16	4/24/13	<0.00100	<0.00200	<0.00100	0.00600	<1.50	<1.50				
MW-16	10/22/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-16	2/12/14	0.00431	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-16	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-16	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-16	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-16	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-16	8/24/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-16	2/28/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-16	8/30/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-16	4/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-16	9/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-16	2/1/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-16	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-17	10/23/03	<0.001	<0.001	<0.001	<0.001				292	1,090	
MW-17	8/12/04	<0.001	<0.001	<0.001	<0.001				230	894	
MW-17	2/18/05	<0.001	<0.001	<0.001	<0.001				160	758	
MW-17	12/20/05	0.053	<0.004	<0.004	<0.004				116		
MW-17	4/12/06	0.5	0.07	0.012	0.013				55.4		
MW-17	10/11/06	0.17	<0.0002	0.0024	0.0014 J				154		
MW-17	4/30/07	0.001	<0.0002	<0.0002	<0.0006				145	668	
MW-17	10/23/07	0.0029	<0.0002	<0.0002	<0.0006				117		
MW-17	5/19/08	0.0005 J	<0.0002	0.0003 J	<0.0006				133		
MW-17	10/14/08	0.0007 J	0.0022	0.0005 J	0.0012 J				144		
MW-17	4/15/09	<0.0002	<0.0002	<0.0002	<0.0006				77.2		
MW-17	9/29/09	0.0081	0.0034	0.0008 J	0.0012 J				46.3		
MW-17	4/5/10	0.270	<0.0002	0.0005 J	0.0080						
MW-17	10/5/10	1.300	<0.0002	0.0017	0.021						
MW-17	4/26/11	0.220	<0.0010	<0.0010	<0.0030	<0.0500	<0.050		33.4		
MW-17	10/20/11	0.127	<0.00200	<0.00100	<0.00100	<1.50	1.87		28.2		
MW-17	4/26/12	0.203	<0.0400	<0.0200	<0.0200	<1.50	<1.50		30.6		
MW-17	11/7/12	0.243	<0.00200	<0.00100	0.00261	<1.50	<1.50		34.3		
MW-17	4/25/13	6.980	<0.20000	<0.10000	<0.10000	<8.20	<1.50				
MW-17	10/24/13	12.1	<0.100	<0.0500	0.0710	11.1	<1.50	<11.10			
MW-17	2/14/14	19.8	<0.100	<0.0500	0.0500	20.9	<1.50	20.9			

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-17	10/30/14	22.3	<0.200	<0.100	<0.100	24.7	<1.48	24.7			
MW-17	3/3/15	23.8	<0.200	<0.100	<0.101	29.9	<1.50	29.9			
MW-17	10/28/15	18.8	<0.100	<0.128	0.5890	27.4	<1.41	27.4			
MW-17	3/2/16	0.279	<0.00200	<0.00100	<0.00100	13.9	<1.41	13.9			
MW-17	8/24/16	0.0927	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-17	3/1/17	0.336	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-17	8/30/17	4.32	<0.100	<0.100	<0.100	<1.50	<1.50	<1.50			
MW-17	4/4/18	2.500	<0.00200	<0.00200	<0.00200	5.23	<1.50	5.23			
MW-17	9/4/18	0.463	<0.0400	<0.0400	<0.0400	<1.50	<1.50	<1.50			
MW-17	1/31/19	2.22	0.00041	0.002	0.00071	4.00	<1.50	<1.50			
MW-17	12/19/19	6.9	0.00040	0.0076 J	0.016 J	23.00	<1.50	23			
MW-18	10/23/03	0.07	<0.001	<0.001	<0.001				81.5	637	
MW-18	8/11/04	0.307	<0.001	<0.001	0.001				92.2	641	
MW-18	2/18/05	0.430	<0.001	<0.001	<0.001				98.2	782	
MW-18	12/20/05	0.530	<0.0007	0.005	0.010				102		
MW-18	4/12/06	0.180	0.017	0.015	0.016				89.2		
MW-18	10/12/06	0.042	<0.0002	<0.0002	<0.0006				104		
MW-18	4/30/07	0.180	<0.0002	<0.0002	0.0013 J				105	665	
MW-18	10/23/07	0.260	<0.0002	<0.0002	0.0014 J				92.5		
MW-18	5/19/08	0.460	0.011	0.0098	0.008				110		
MW-18	10/20/08	0.110	0.0005 J	0.0009 J	0.0018 J				115		
MW-18	4/16/09	0.140	0.0013	0.0037	0.0028 J				97.1		
MW-18	9/30/09	0.0099	0.0029	0.0007 J	0.0008 J				100		
MW-18	4/6/10	0.0045	<0.0002	<0.0002	<0.0006						
MW-18	10/6/10	0.0015	<0.0002	<0.0002	<0.0006						
MW-18	4/19/11	<0.00020	0.0030	<0.00020	<0.00070	<0.020	<0.020		73.9		
MW-18	10/19/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		48.0		
MW-18	4/25/12	<0.00100	0.00310	<0.00100	<0.00100	<1.50	<1.50		105		
MW-18	11/7/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		68.7		
MW-18	4/24/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-18	10/22/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-18	2/12/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-18	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-18	2/25/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-18	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-18	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-18	8/24/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-18	3/1/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-18	8/31/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-18	4/4/18	0.00506	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-18	8/28/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-18	1/29/19	0.00043	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-18	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-19	10/22/03	1.99	0.334	0.089	0.115				62.0	554	
MW-19	8/9/04	11.7	2.9	0.408	0.387				44.3	492	
MW-19	2/18/05	10.8	2.16	0.183	0.145				56.6	369	
MW-19	12/21/05	23.0	5.4	0.850	0.930				36.7		
MW-19	4/11/06	16.0	2.4	0.320	0.360				52.8		
MW-19	10/12/06	11.0	2.0	0.350	0.400				53.6		
MW-19	5/1/07	13.0	2.0	0.370	0.440				64.2	377	
MW-19	10/24/07	11.0	1.1	0.350	0.430				62.2		
MW-19	5/8/08										NS--LNAPL
MW-19	10/08/08										NS--LNAPL
MW-19	04/16/09										NS--LNAPL
MW-19	9/28/09										NS--LNAPL
MW-19	4/5/10										NS--LNAPL
MW-19	10/5/10										NS--LNAPL
MW-19	4/18/11										NS--LNAPL
MW-19	10/18/11										NS--LNAPL

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-19	4/23/12										NS--LNAPL
MW-19	11/5/12										NS--LNAPL
MW-19	4/23/13										NS--LNAPL
MW-19	10/22/13										NS--LNAPL
MW-19	2/11/14										NS--LNAPL
MW-19	10/27/14										NS--LNAPL
MW-19	2/24/15										NS--LNAPL
MW-19	10/26/15										NS--LNAPL
MW-19	2/29/16										NS--LNAPL
MW-19	8/22/16										NS--LNAPL
MW-19	3/3/17										NS--LNAPL
MW-19	8/30/17										NS--LNAPL
MW-19	4/3/18										NS--LNAPL
MW-19	8/27/18										NS--LNAPL
MW-19	1/29/19										NS--LNAPL
MW-19	12/19/19										NS--LNAPL
MW-20	10/23/03	<0.001	<0.001	<0.001	<0.001				42.5	441	
MW-20	8/11/04	<0.001	<0.001	<0.001	<0.001				21.3	349	
MW-20	2/18/05	<0.001	<0.001	<0.001	<0.001				21.1	446	
MW-20	12/20/05	0.004 J	<0.0007	0.001 J	0.0008 J				18.2		
MW-20	4/11/06	0.0004 J	<0.0002	<0.0002	<0.0006				17.4		
MW-20	10/11/06	0.0005 J	<0.0002	<0.0002	<0.0006				21.7		
MW-20	4/26/07	<0.0002	<0.0002	<0.0002	<0.0006				19.1	322	
MW-20	10/22/07	<0.0002	<0.0002	<0.0002	<0.0006				17.2		
MW-20	5/14/08	0.0037	<0.0002	0.0012	<0.0006				17.5		
MW-20	10/15/08	0.0004 J	0.0004 J	<0.0002	<0.0006				19.1		
MW-20	4/16/09	0.04	0.0006 J	0.0021	0.0016 J				18.3		
MW-20	9/28/09	0.0086	0.0034	0.0007 J	0.0008 J				16.5		
MW-20	4/6/10	0.0011	<0.0002	<0.0002	<0.0006						
MW-20	10/6/10	0.0022	<0.0002	<0.0002	<0.0006						
MW-20	4/19/11	<0.00020	0.0039	<0.00020	<0.00070	<0.020	<0.020		15.6		
MW-20	10/20/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		15.6		
MW-20	4/25/12	<0.00100	0.00452	<0.00100	<0.00100	<1.50	<1.50		16.5		
MW-20	11/9/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		13.3		
MW-20	4/25/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-20	10/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-20	2/13/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-20	10/29/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-20	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-20	10/28/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-20	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-20	8/26/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-20	3/2/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-20	8/30/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-20	4/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-20	9/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-20	1/30/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-20	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-21	10/23/03	<0.001	<0.001	<0.001	<0.001				40.8	455	
MW-21	8/12/04	<0.001	<0.001	<0.001	<0.001				31.9		
MW-21	2/18/05	<0.001	<0.001	<0.001	<0.001				35.4	405	
MW-21	12/21/05	0.01	<0.0007	0.002 J	0.002 J				43.7		
MW-21	4/12/06	0.02	0.010	0.004	0.004				22.0		
MW-21	10/12/06	0.30	0.140	0.026	0.029				38.7		
MW-21	4/30/07	<0.0002	<0.0002	<0.0002	<0.0006				20.3	306	
MW-21	10/23/07	<0.0002	<0.0002	<0.0002	<0.0006				20.6		
MW-21	5/19/08	0.0018	<0.0002	0.0006 J	<0.0006				26.8		
MW-21	10/20/08	0.0098	0.0027	0.0002 J	<0.0006				22.3		
MW-21	4/21/09	0.031	0.0009 J	0.0022	0.0018 J				19.1		

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-21	9/28/09										NS--construction
MW-21	4/5/10										NS--construction
MW-21	10/6/10	0.0007 J	<0.0002	<0.0002	<0.0006						
MW-21	4/21/11	<0.00020	0.0023	<0.00020	<0.00070	<0.020	<0.020		37.7		
MW-21	10/18/11										NS--Chevron Alarm
MW-21	4/24/12	<0.00100	0.00424	<0.00100	<0.00100	<1.50	<1.50		69.4		
MW-21	11/8/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		63.8		
MW-21	4/25/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-21	10/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-21	2/12/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-21	10/29/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-21	3/2/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-21	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-21	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-21	8/25/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-21	3/2/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-21	8/31/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-21	4/3/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-21	9/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	252	683	
MW-21	1/31/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50	263	972	
MW-21	12/17/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50	240 B	1100	
MW-22	10/23/07	0.0005 J	<0.0002	<0.0002	<0.0006				172		
MW-22	5/19/08	0.0008 J	<0.0002	0.0004 J	<0.0006				171		
MW-22	10/14/08	0.0021	0.003	0.0018	0.004				185		
MW-22	4/15/09	0.0003 J	<0.0002	<0.0002	<0.0006				353		
MW-22	9/28/09	0.0046	0.0023	0.0006 J	0.0007 J				249		
MW-22	4/5/10	0.0027	0.0002 J	<0.0002	<0.0006						
MW-22	10/5/10	0.012	<0.0002	<0.0002	0.0007 J						
MW-22	4/21/11	<0.00020	0.0028	<0.00020	<0.00070	<0.020	<0.020		544		
MW-22	10/18/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		396		
MW-22	4/25/12	<0.00100	0.00447	<0.00100	<0.00100	<1.50	<1.50		401		
MW-22	11/8/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		263		
MW-22	4/25/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		116		
MW-22	10/22/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-22	10/23/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		164		
MW-22	2/12/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50	242		
MW-22	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48	350		
MW-22	2/25/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-22	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-22	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-22	8/24/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	85.8	452	
MW-22	2/28/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	253	792	
MW-22	8/30/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	753	2420	
MW-22	4/3/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50		836	
MW-22	9/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-22	2/1/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-22	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-23	10/23/07	0.0002 J	<0.0002	<0.0002	<0.0006				108		
MW-23	5/15/08	0.0041	<0.0002	0.0006 J	<0.0006				60.5		
MW-23	10/14/08	0.0027	0.0046	0.0009 J	0.0021 J				66.8		
MW-23	4/14/09	<0.0002	<0.0002	<0.0002	<0.0006				73.2		
MW-23	9/28/09	0.011	0.004	0.0009 J	0.001 J				107		
MW-23	4/5/10	<0.0002	0.0004 J	<0.0002	<0.0006						
MW-23	10/5/10	<0.0002	<0.0002	<0.0002	<0.0006						
MW-23	4/19/11	<0.00020	0.0034	<0.00020	<0.00070	<0.020	<0.020		75.5		
MW-23	10/18/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		110		
MW-23	4/25/12	<0.00100	0.00380	<0.00100	<0.00100	<1.50	<1.50		130		
MW-23	11/8/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		151		
MW-23	4/24/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
MW-23	10/22/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-23	2/12/14	0.01970	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-23	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-23	2/25/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-23	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-23	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-23	8/24/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-23	3/2/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-23	8/30/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-23	4/3/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-23	9/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-23	2/1/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-23	12/19/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-24	10/22/07	0.0026	<0.0002	<0.0002	<0.0006				80.4		
MW-24	5/15/08	0.023	<0.0002	0.0007 J	<0.0006				28.8		
MW-24	10/15/08	0.002	0.0003 J	<0.0002	<0.003				33.4		
MW-24	4/16/09	0.079	0.0009 J	0.0028	0.0022 J				30		
MW-24	9/28/09	0.0067	0.0024	0.0006 J	0.0007 J				28.5		
MW-24	4/6/10	0.590	0.028	0.037	0.022						
MW-24	10/6/10	0.0030	<0.0002	<0.0002	<0.0006						
MW-24	4/20/11	<0.00020	0.0024	<0.00020	<0.00070	<0.020	<0.020		61.6		
MW-24	10/19/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		59.5		
MW-24	4/25/12	<0.00100	0.00302	<0.00100	<0.00100	<1.50	<1.50		87.4		
MW-24	11/9/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		89.6		
MW-24	4/24/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
MW-24	10/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-24	2/13/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-24	10/29/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
MW-24	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
MW-24	10/28/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-24	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-24	8/26/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-24	3/3/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-24	8/30/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-24	4/4/18	0.00289	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-24	9/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-24	1/30/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-24	12/17/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-25	6/4/15	<0.00100	<0.00200	<0.00100	<0.00100	--	--	<0			
MW-25	10/28/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-25	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-25	8/26/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-25	3/2/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-25	8/30/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-25	4/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-25	9/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-25	1/30/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-25	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
MW-26	6/4/15	0.11200	<0.00200	<0.00149	<0.00900	--	--	<0			
MW-26	10/29/15	0.03420	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-26	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
MW-26	8/25/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-26	3/2/17	0.01580	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-26	8/30/17	0.00639	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-26	4/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-26	9/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
MW-26	1/30/19	0.00112	0.002	0.002	0.002	<1.50	<1.50	<1.50			
MW-26	12/17/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
EW-1	10/4/10										NS--LNAPL
EW-1	4/18/11										NS--LNAPL
EW-1	10/18/11										NS--LNAPL
EW-1	4/23/12										NS--LNAPL
EW-1	11/5/12										NS--LNAPL
EW-1	4/23/13										NS--LNAPL
EW-1	10/22/13										NS--LNAPL
EW-1	2/11/14										NS--LNAPL
EW-1	10/27/14										NS--LNAPL
EW-1	2/24/15										NS--LNAPL
EW-1	10/26/15										NS--LNAPL
EW-1	2/29/16										NS--LNAPL
EW-1	8/23/16	0.451	0.0108	0.0342	0.0694	2.29	2.11	4.40			
EW-1	3/3/17	0.379	0.00957	0.0202	0.0384	3.93	2.98	6.91			
EW-1	8/30/17										NS--LNAPL
EW-1	4/3/18										NS--LNAPL
EW-1	8/27/18										NS--LNAPL
EW-1	1/29/19										NS--LNAPL
EW-1	12/19/19										NS--LNAPL
TW-11	4/5/10	<0.00020	<0.0002	<0.0002	<0.0006						
TW-11	10/5/10	<0.00020	<0.0002	<0.0002	<0.0006						
TW-11	4/19/11	<0.00020	0.0035	<0.00020	<0.00070	<0.020	<0.020		90.1		
TW-11	10/19/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		28.7		
TW-11	4/26/12	<0.00100	0.00296	<0.00100	<0.00100	<1.50	<1.50		30.4		
TW-11	11/6/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		28.1		
TW-11	4/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
TW-11	10/22/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
TW-11	2/11/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
TW-11	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
TW-11	3/2/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
TW-11	10/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
TW-11	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
TW-11	8/25/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-11	2/28/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-11	8/29/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-11	4/3/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-11	8/28/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-11	1/31/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
TW-11	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
TW-13	4/5/10	<0.0002	<0.0002	<0.0002	<0.0006						
TW-13	10/4/10	<0.0002	<0.0002	<0.0002	<0.0006						
TW-13	4/19/11	<0.00020	0.0036	<0.00020	<0.00070	<0.020	<0.020		94.8		
TW-13	10/18/11	0.0311	<0.00200	<0.00100	<0.00100	<1.50	1.69		90.2		
TW-13	4/26/12	<0.00100	0.00339	<0.00100	<0.00100	<1.50	<1.50		83.0		
TW-13	11/7/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		64.8		
TW-13	4/24/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
TW-13	10/22/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
TW-13	3/2/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
TW-13	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40			
TW-13	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
TW-13	8/25/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-13	2/28/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-13	8/31/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-13	4/4/18	0.00292	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-13	8/28/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-13	1/29/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
TW-13	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
TW-20	11/6/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50		53.5		
TW-20	4/24/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
TW-20	10/22/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
TW-20	3/2/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
TW-20	10/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40			
TW-20	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
TW-20	8/25/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-20	2/28/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-20	8/29/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-20	4/3/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-20	8/28/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
TW-20	12/18/19	<0.00018	<0.00020	<0.00021	<0.00037	<1.50	<1.50	<1.50			
Dup-1 (MW-24)	4/16/09	0.077	0.0009 J	0.0028	0.0022 J				29.7		
Dup-2 (MW-3)	4/16/09	0.46	0.067	0.011	0.019				51.5		
Dup-100 (MW-18)	9/30/09	0.0096	0.0030	0.0007 J	0.0008 J				97.6		
Dup-200 (MW-4)	9/30/09	17.00	0.110	0.310	0.140 J				56.7		
Dup-100 (MW-12)	4/6/10	0.0005 J	<0.0002	<0.0002	<0.0006						
Dup-101 (MW-4)	4/6/10	25.000	0.500	0.460	0.220 J						
Dup-1 (MW-20)	10/6/10	0.0023	<0.0002	<0.0002	<0.0006						
Dup-2 (MW-1)	10/7/10	3.400	0.0032 J	0.0011 J	<0.0030						
DUP1 (MW-12)	4/19/11	<0.00020	0.0042	<0.00020	<0.00070	<0.020	<0.020		43.1		
DUP2 (MW-10)	4/20/11	<0.00020	0.0021	<0.00020	<0.00070	<0.020	<0.020		43.3		
Dup-1 (MW-16)	10/18/11	0.00105	<0.00200	<0.00100	<0.00100	<1.50	1.85		56.3		
Dup-2 (MW-4)	10/20/11	21.8	<0.0500	0.0750	0.0560	20.2	2.16		77.3		
Trip Blank	10/18/11	<0.00100	<0.00200	<0.00100	<0.00100						
Dup-04 (MW-20)	4/25/12	<0.00100	0.00445	<0.00100	<0.00100	<1.50	<1.50		16.5		
Trip Blank	4/25/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
Dup-2 (MW-4)	4/26/12	17.0	<0.00100	<0.250	<0.250	15.7			77.0		
Dup1 (TW-20)	11/6/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
Dup2 (TW-13)	11/7/12	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
Trip Blank	11/9/12	<0.00100	<0.00200	<0.00100	<0.00100						
Dup-1 (MW-10)											
Dup-2 (MW-1)											
Dup-1	4/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
Dup-2	4/25/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
Dup03	4/25/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50				
Trip Blank	4/25/2013	<0.00100	<0.00200	<0.00100	<0.00100						
Dup1 (MW-10)	10/23/13	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
Dup2 (MW-1)	10/24/13	6.10	<0.0400	<0.0200	0.0366	6.38	<1.50	6.38			
Trip Blank	10/24/13	<0.00100	<0.00200	<0.00100	<0.00100						
Dup1 (MW-13)	2/10/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
Dup2 (MW-5)	2/12/14	0.05590	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
Dup3 (MW-17)	2/14/14	18.80000	<0.10000	<0.05000	<0.05000	21.6	<1.50	21.6			
Trip Blank	2/14/14	<0.00100	<0.00200	<0.00100	<0.00100						
Dup1 (MW-18)	10/28/14	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48			
Dup2 (MW-17)	10/30/14	23.4	<0.200	<0.100	<0.100	28.1	<1.48	28.1			
Dup1 (MW-16)	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
Dup2 (MW-7)	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
Dup3 (MW-2)	3/3/15	0.0922	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
Dup2 (MW-7)	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
Dup1 (MW-16)	2/26/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50			
Dup-1 (MW-16)	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
Dup-1 (MW-16)	10/27/15	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
DUP-2 (MW-26)	10/29/15	0.0397	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
Dup-1 (MW-23)	3/1/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
Dup-2 (MW-26)	3/2/16	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41			
Dup-3 (MW-1)	3/3/16	1.23	<0.0400	<0.0200	<0.0200	2.25	<1.41	2.25			
Dup-1 (MW-23)	8/24/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup-2 (MW-20)	8/26/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup-3 (MW-25)	8/26/16	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			

APPENDIX D
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BUCKEYE COMPRESSOR STATION
LEA COUNTY, NEW MEXICO

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO	TPH DRO	TPH C ₆ -C ₃₆	Chloride	TDS	Notes
NMWQCC Standards		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	---	---	---	250 mg/L	1000 mg/L	
Dup-1 (MW-23)	3/2/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup-2 (MW-24)	3/3/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup-3 (MW-12)	3/3/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-5)	8/31/17	0.0993	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-6)	9/1/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (TW-20)	8/29/17	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-15)	4/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-25)	4/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-7)	4/6/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-7)	8/29/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-15)	9/4/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-24)	9/5/18	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50			
Dup (MW-4)	12/19/19	12.00	<0.0040	0.044	0.030 J	33.00	0.19 J H	<0.26			
Dup (MW-14)	1/30/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
Dup (MW-23)	2/1/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			
Dup (TW-20)	1/31/19	0.002	0.002	0.002	0.002	<1.50	<1.50	<1.50			

NOTES:

NMWQCC - New Mexico Water Quality Control Commission

mg/L - milligrams per liter

NA - Not Analyzed

J - Reported as an estimate

Cells shaded yellow indicate that concentration exceeds NMWQCC standard. Not sampled due to presence of LNAPL .

LNAPL - low density non-aqueous liquids.

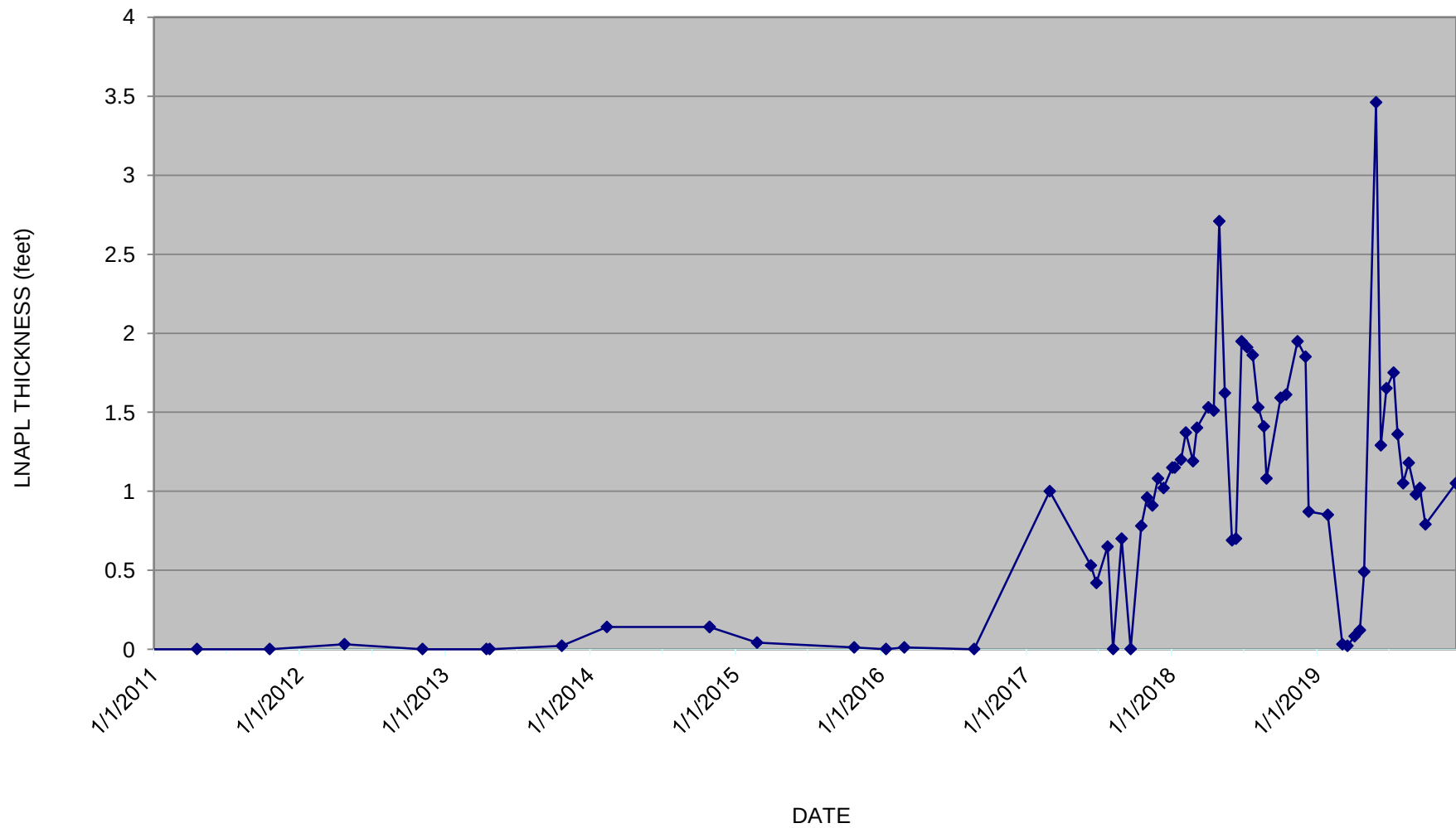
NS - Not sampled

APPENDIX E

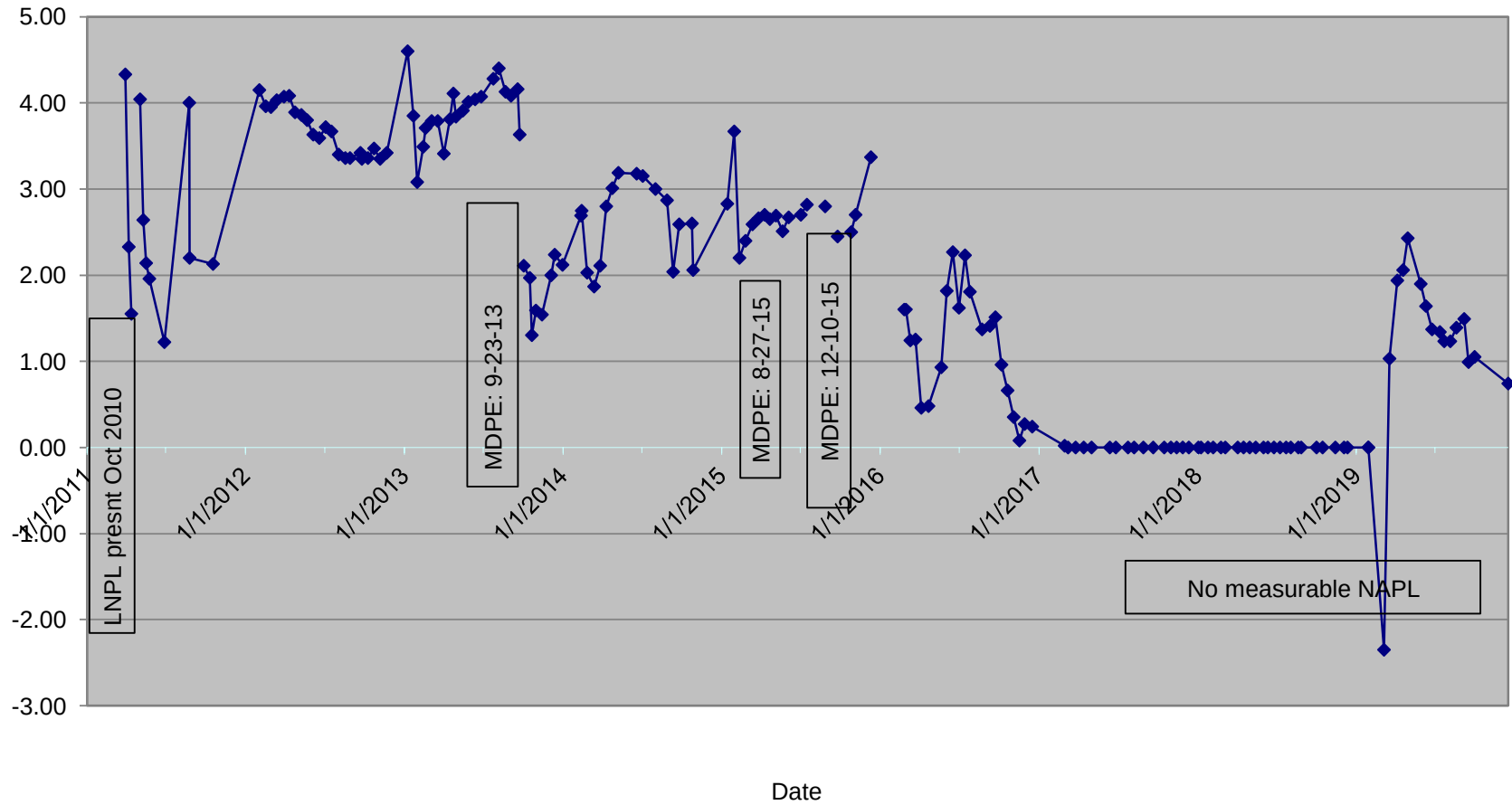
Charts of LNAPL Thickness Trends



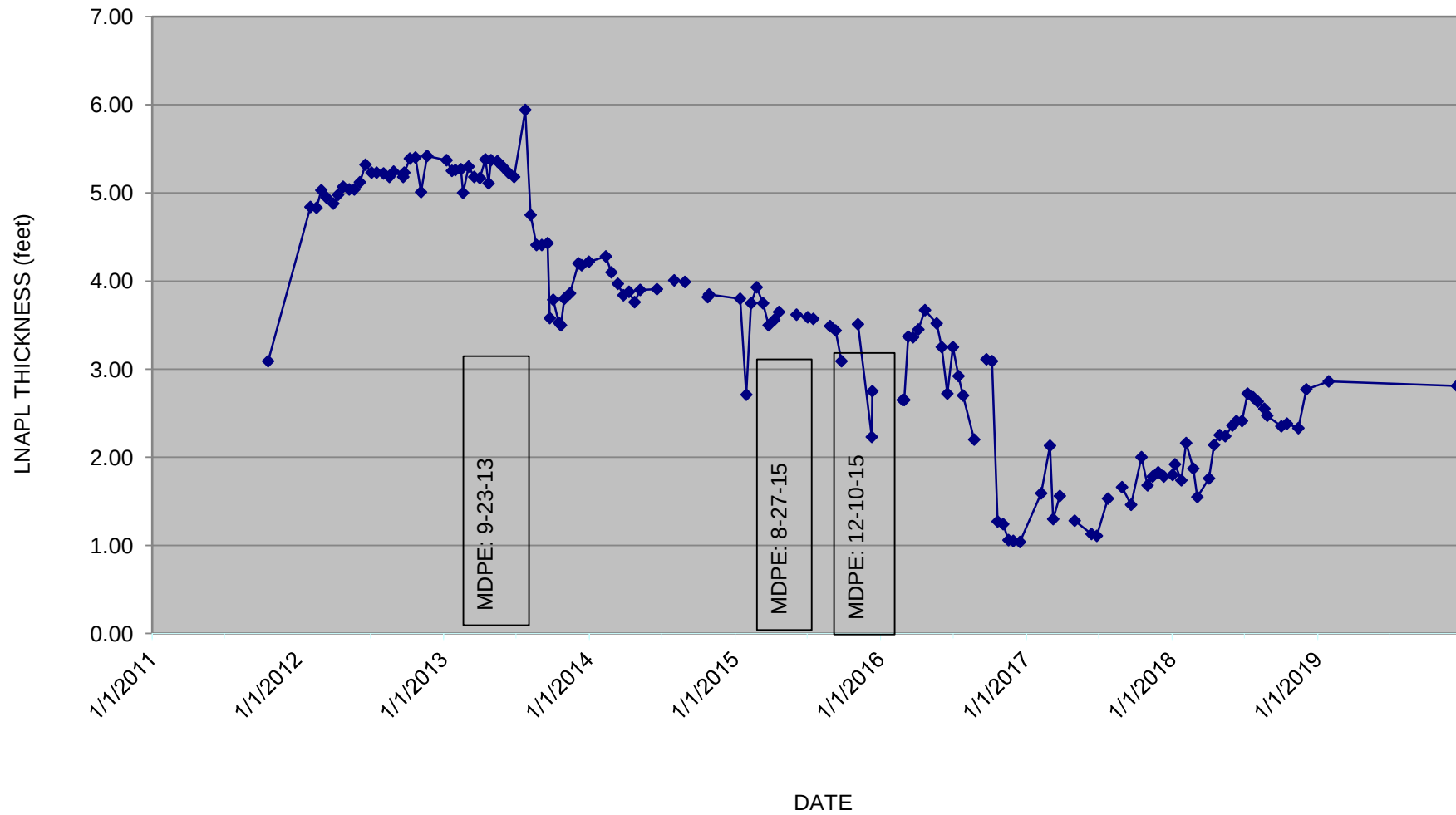
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Thickness of Light Non-Aqueous Phase Liquid (LNAPL)
MW-3



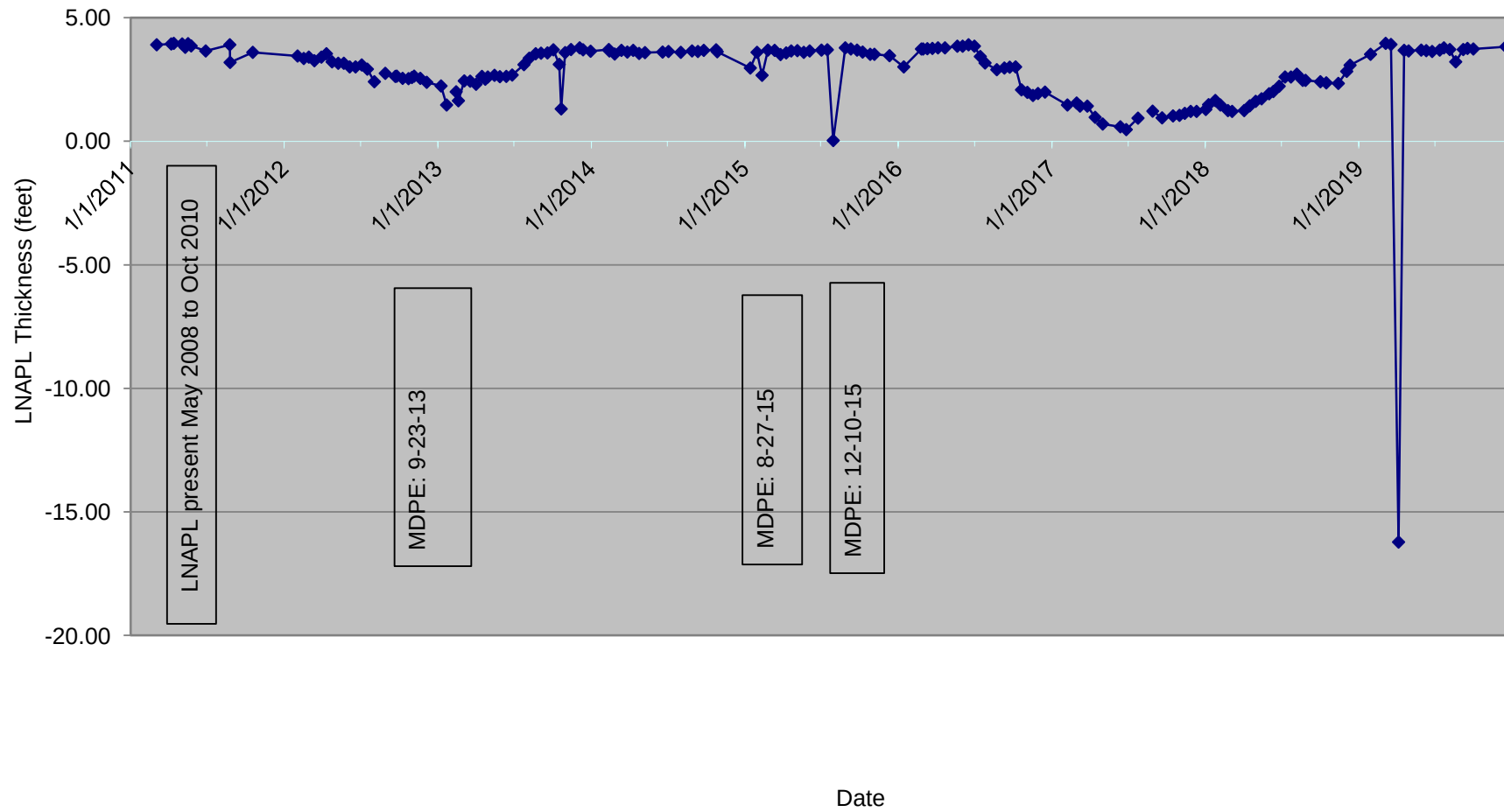
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Thickness of Light Non-Aqueous Phase Liquid (LNAPL)
MW-8



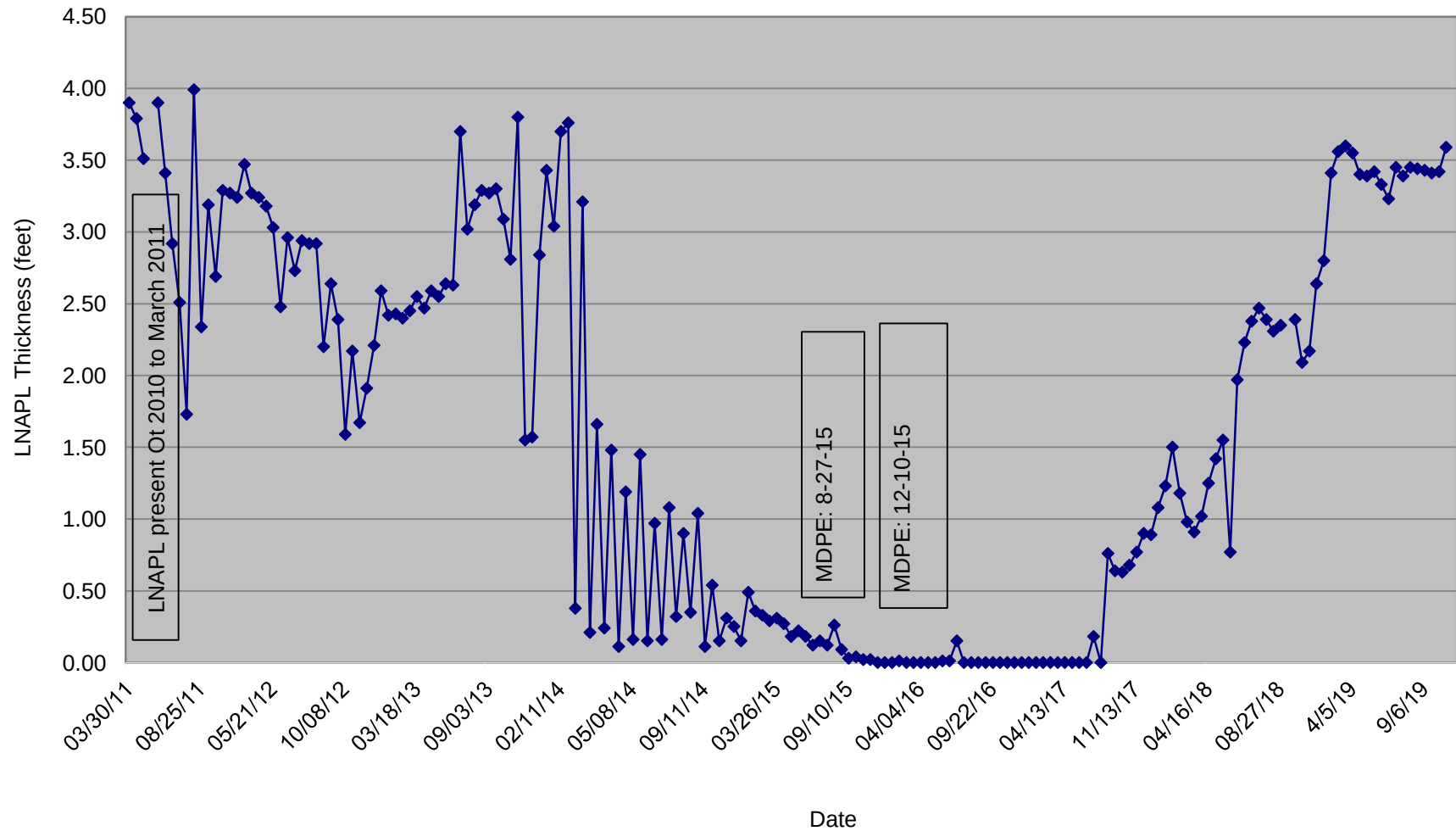
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Thickness of Light Non-Aqueous Phase Liquid (LNAPL)
MW-9



Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Thickness of Light Non-Aqueous Phase Liquid (LNAPL)
MW-19



Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Thickness of Light Non-Aqueous Phase Liquid (LNAPL)
EW-1



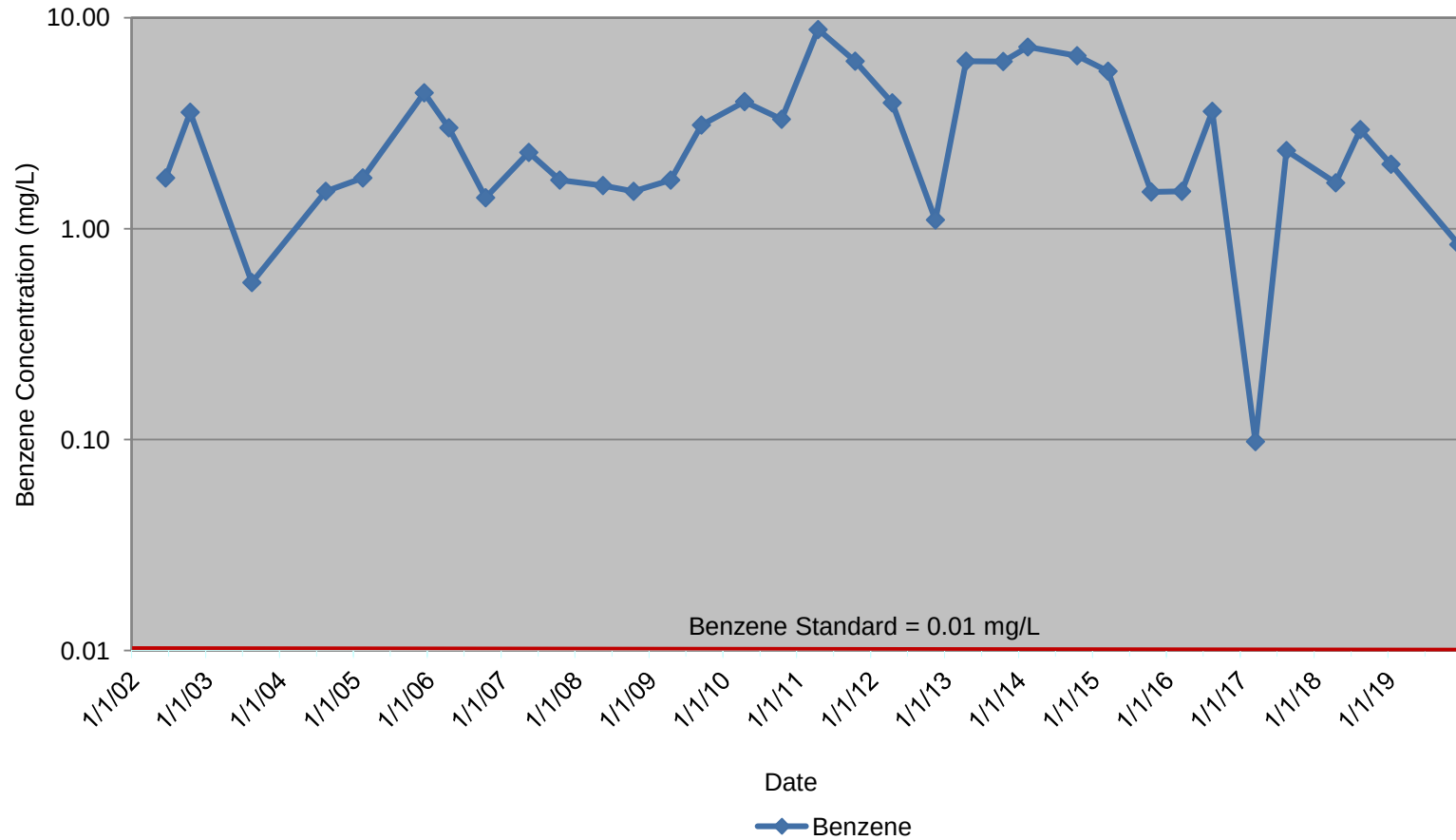
APPENDIX F

Charts of Chemical Concentration Trends

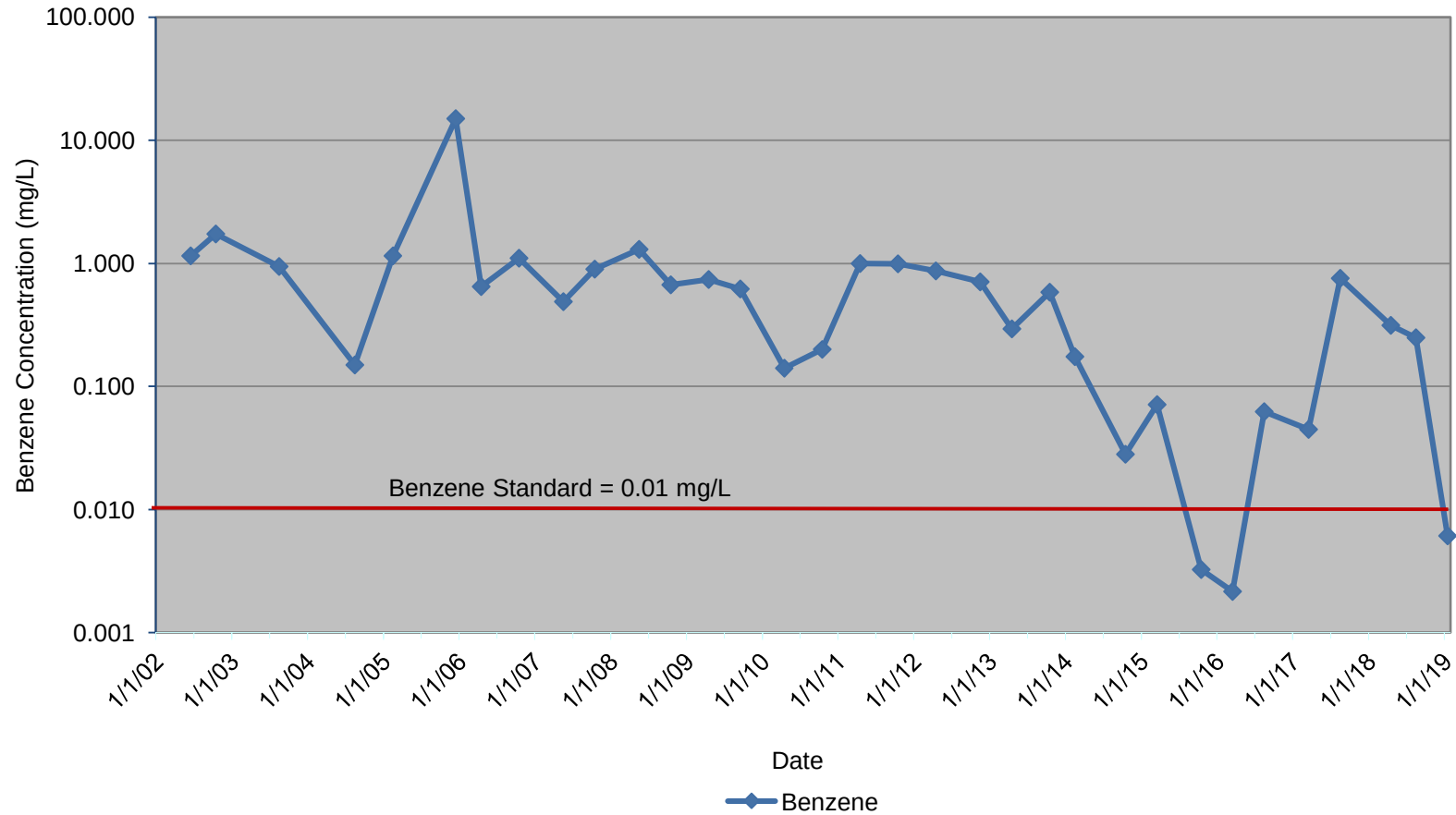


Benzene Standard = 0.01 mg/L

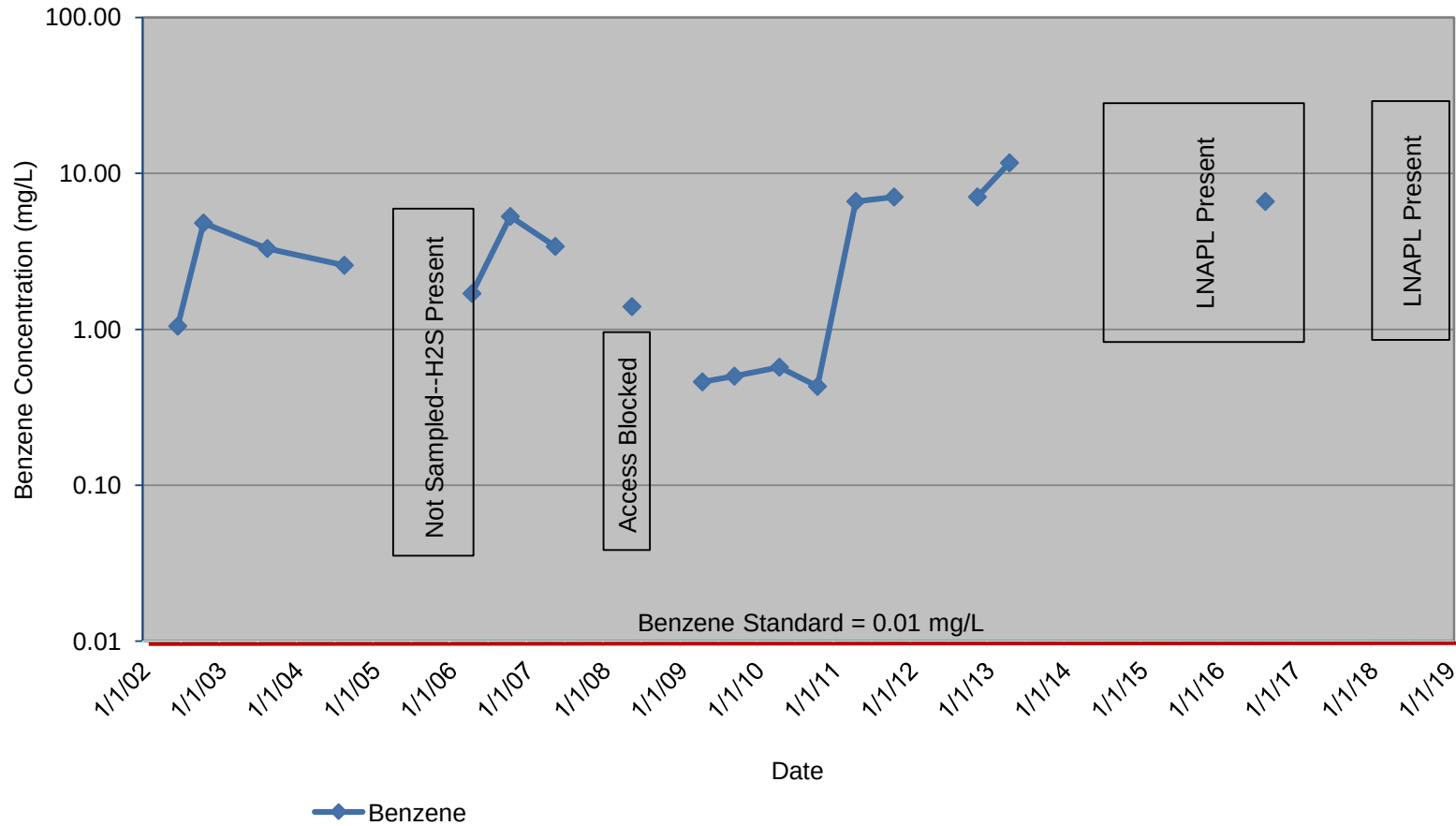
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-1



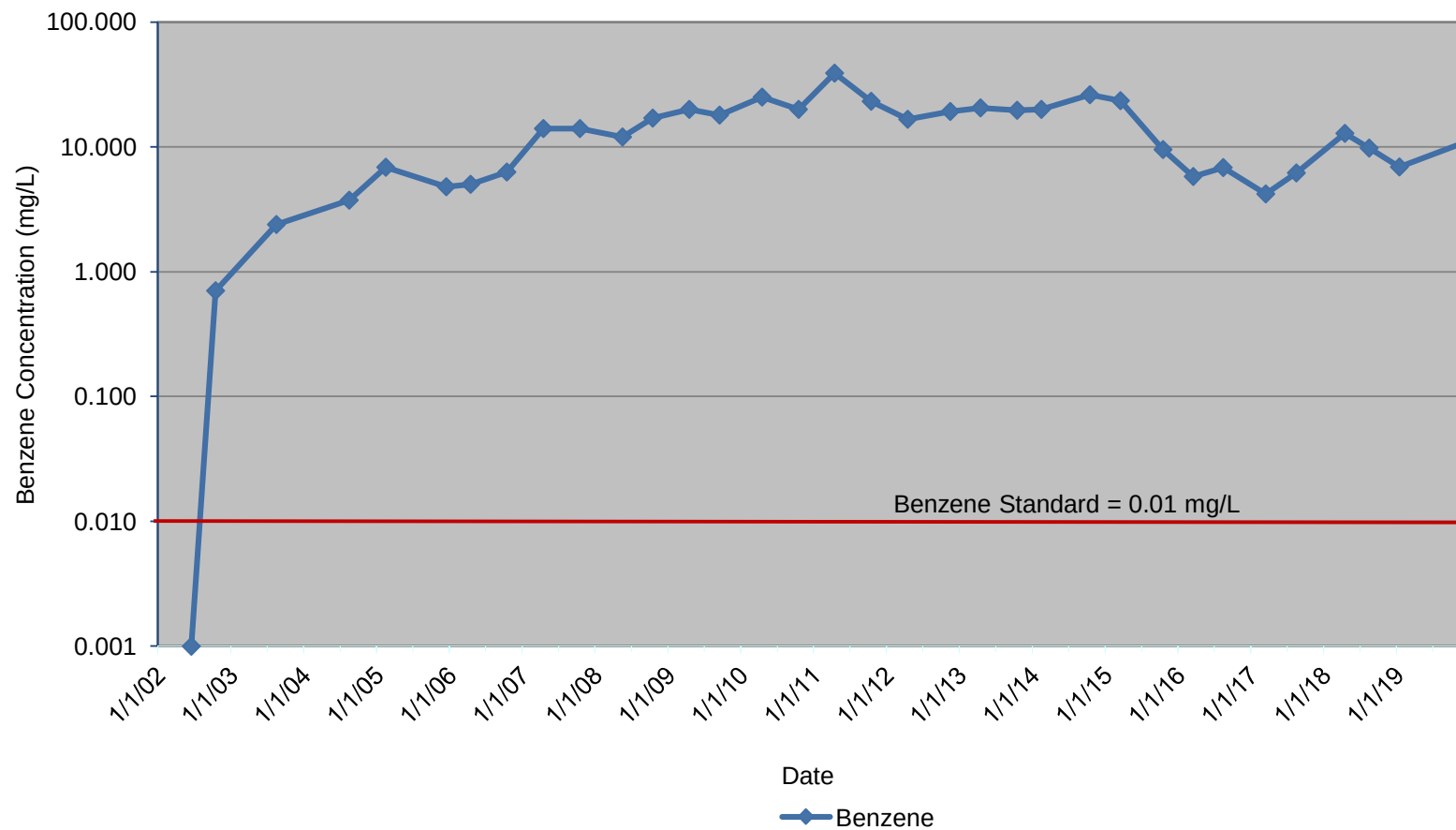
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-2



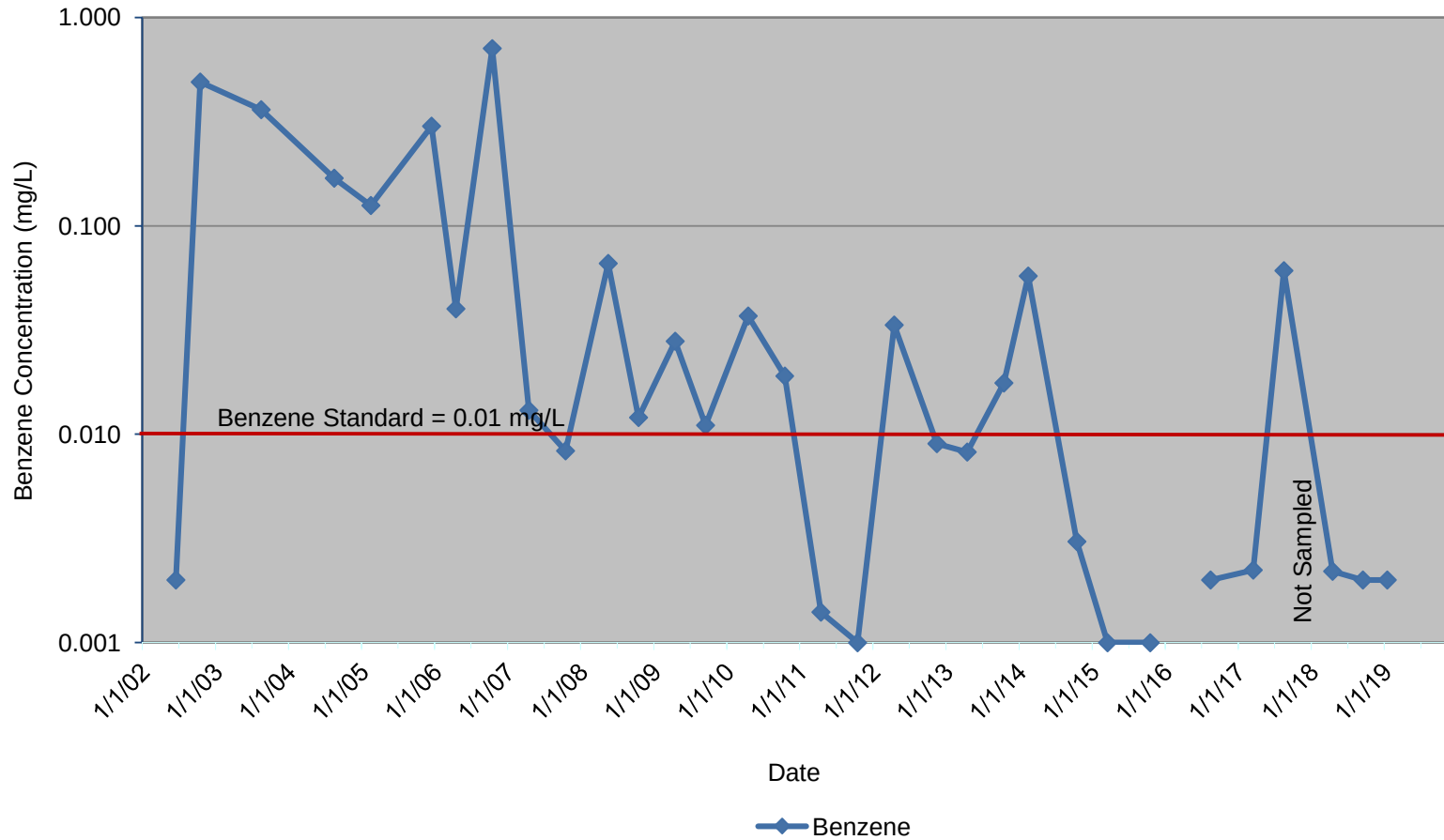
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-3



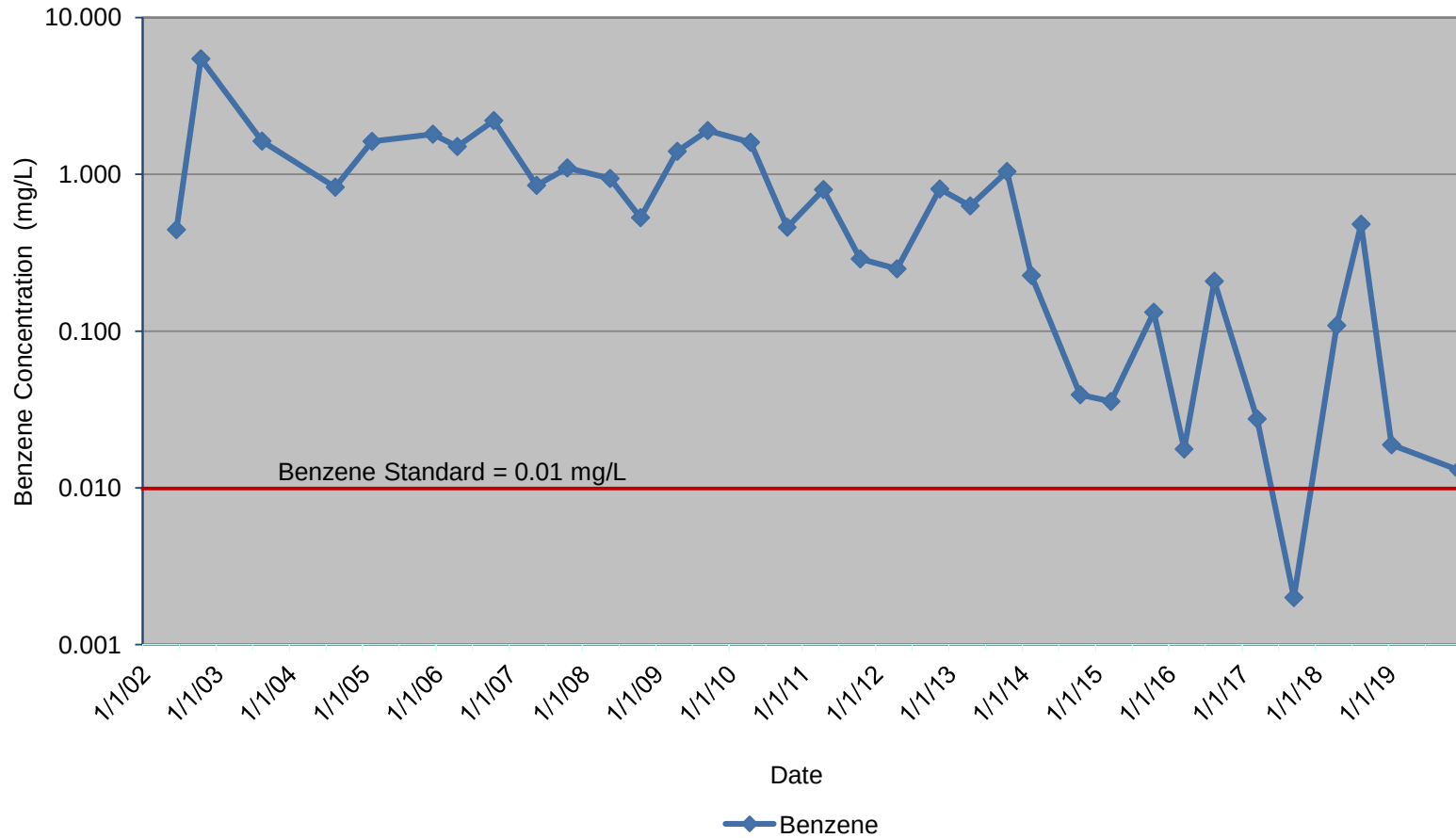
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-4



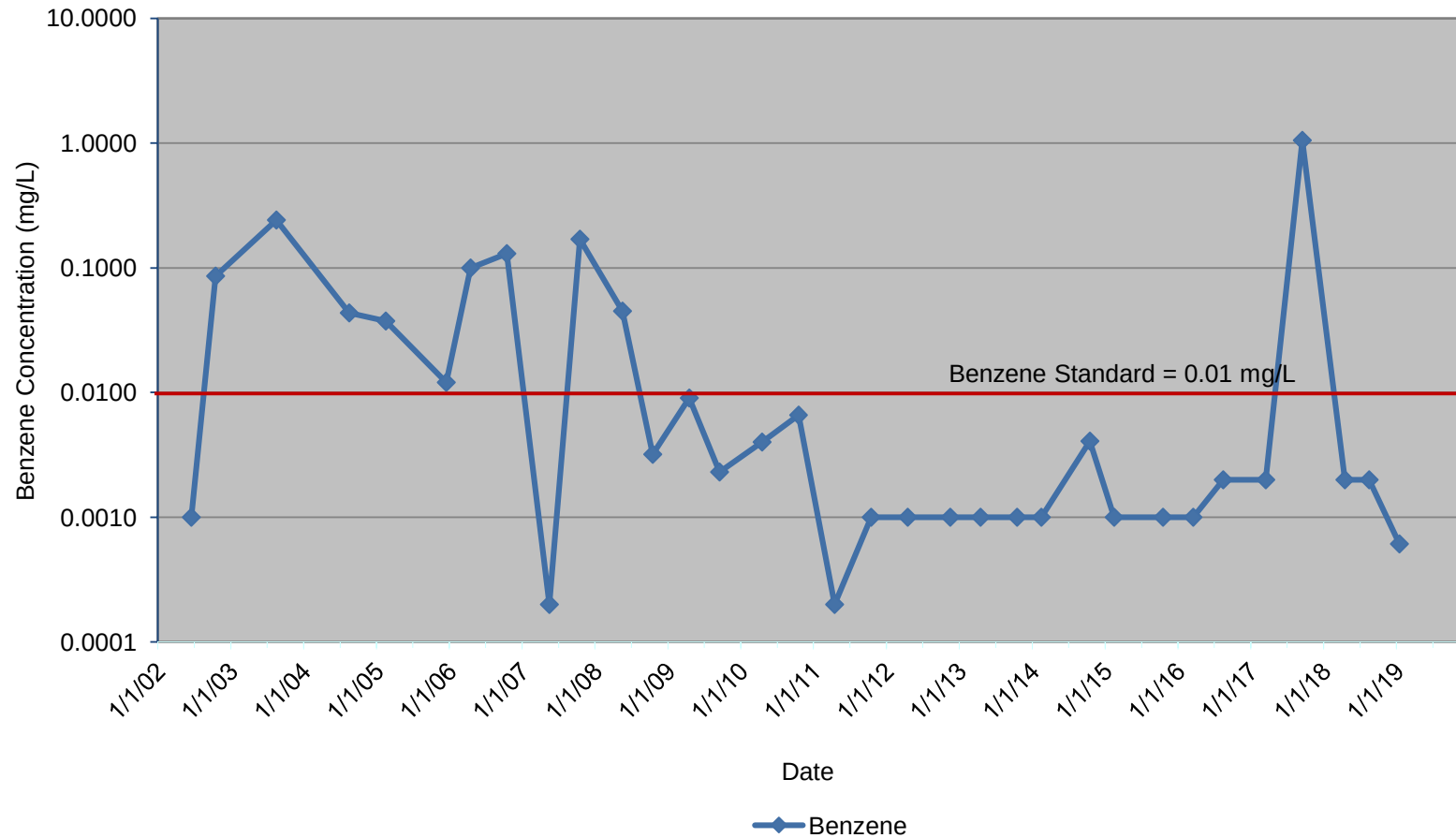
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-5



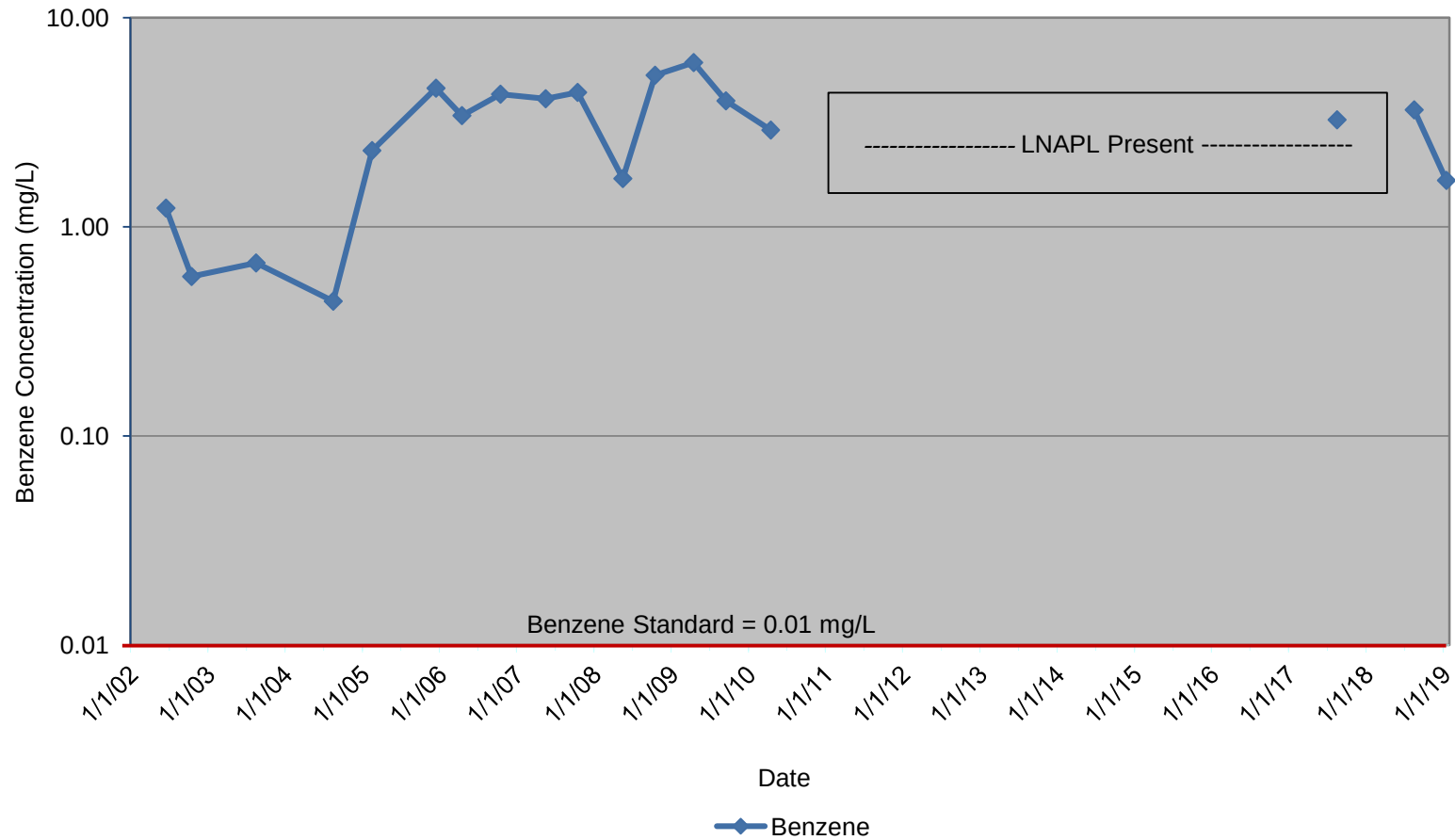
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-6



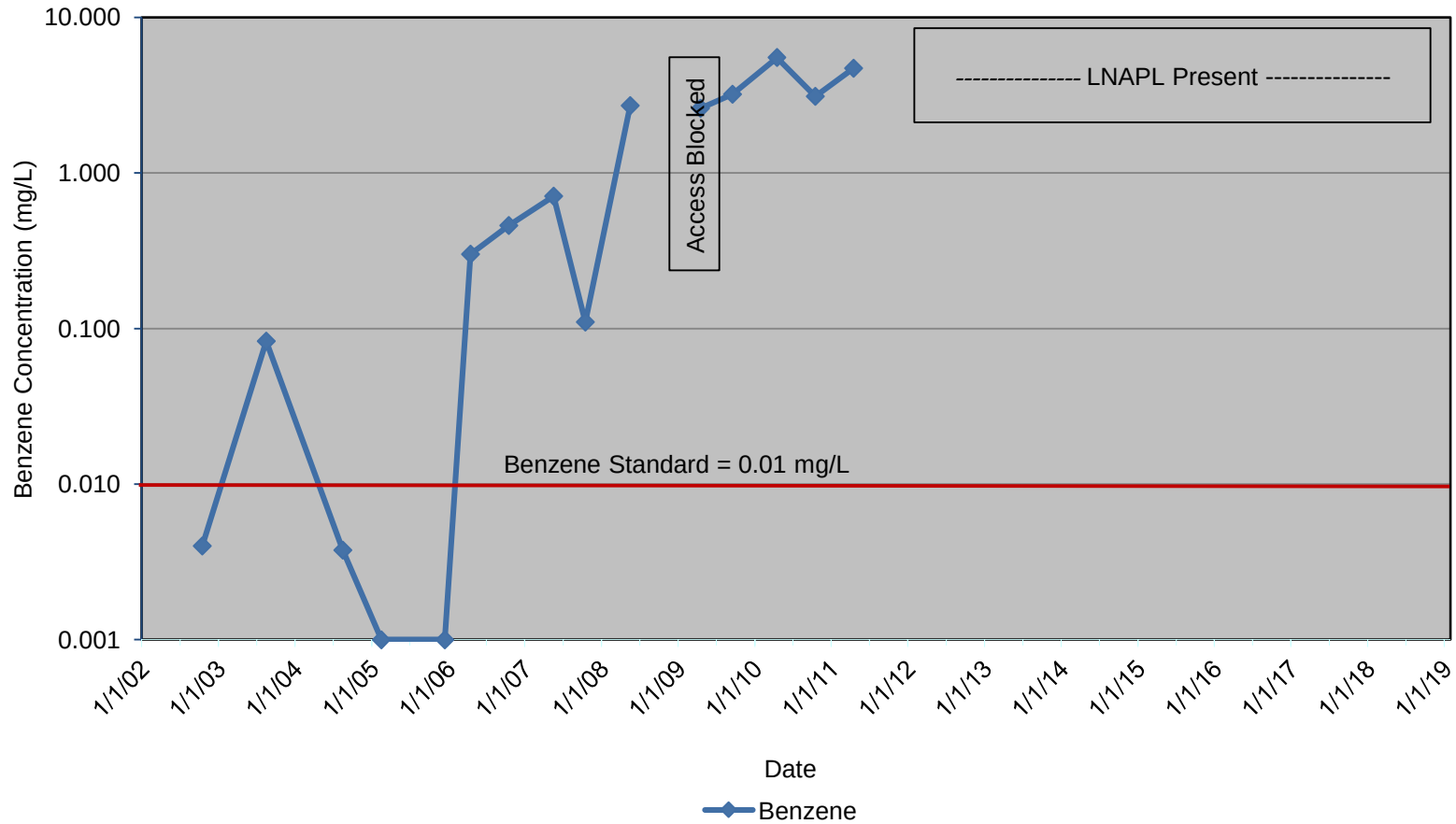
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-7



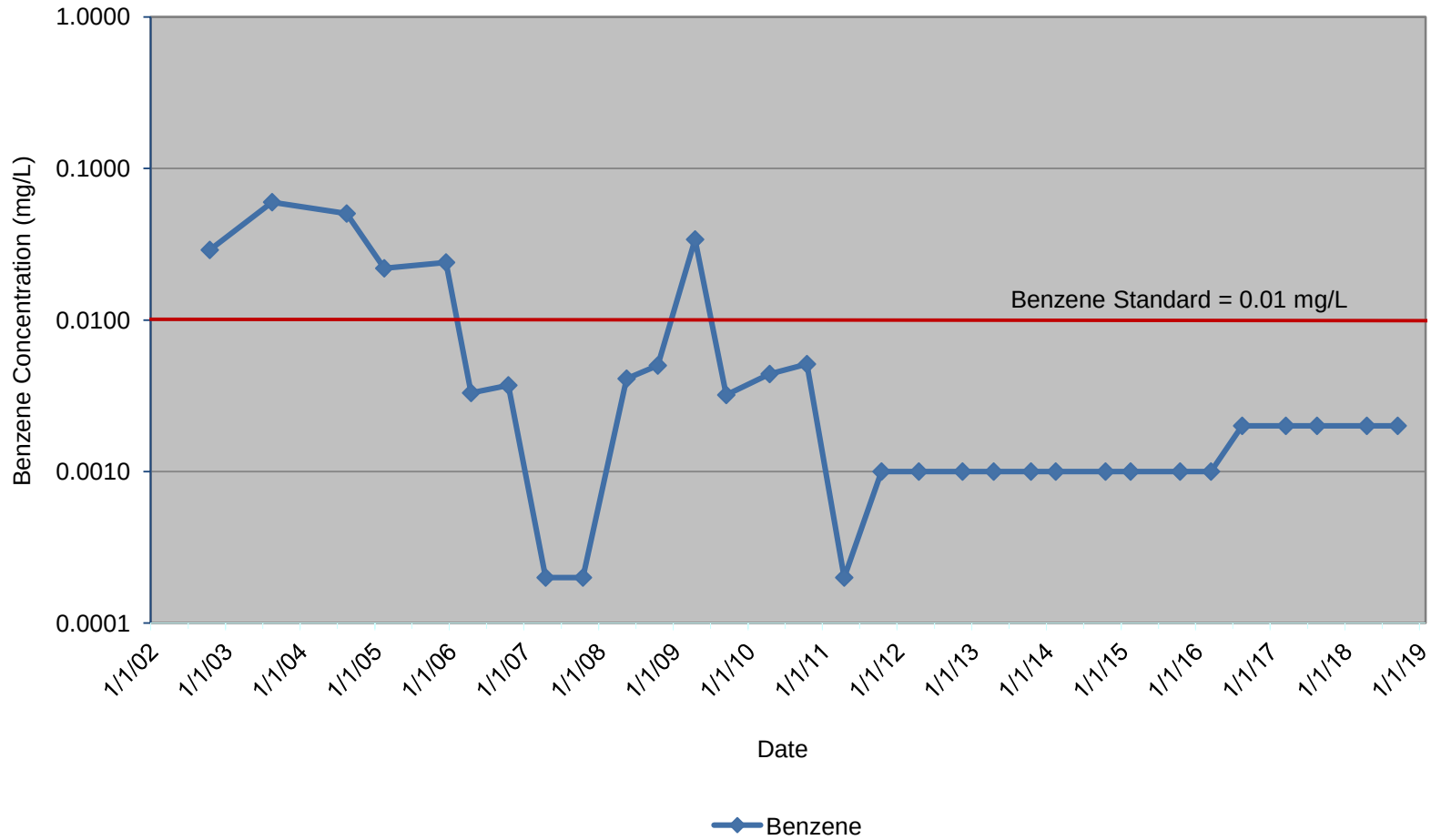
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-8



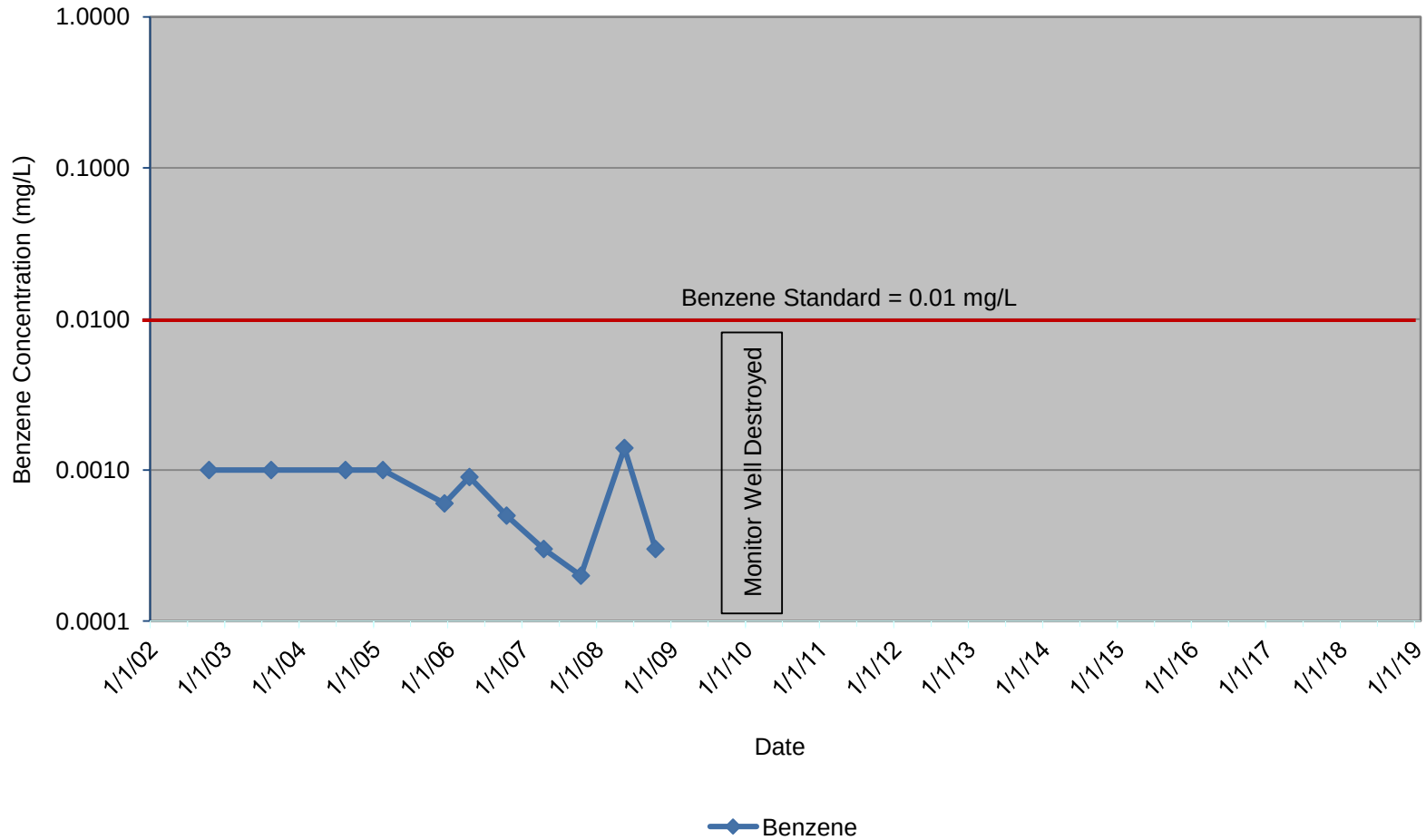
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-9



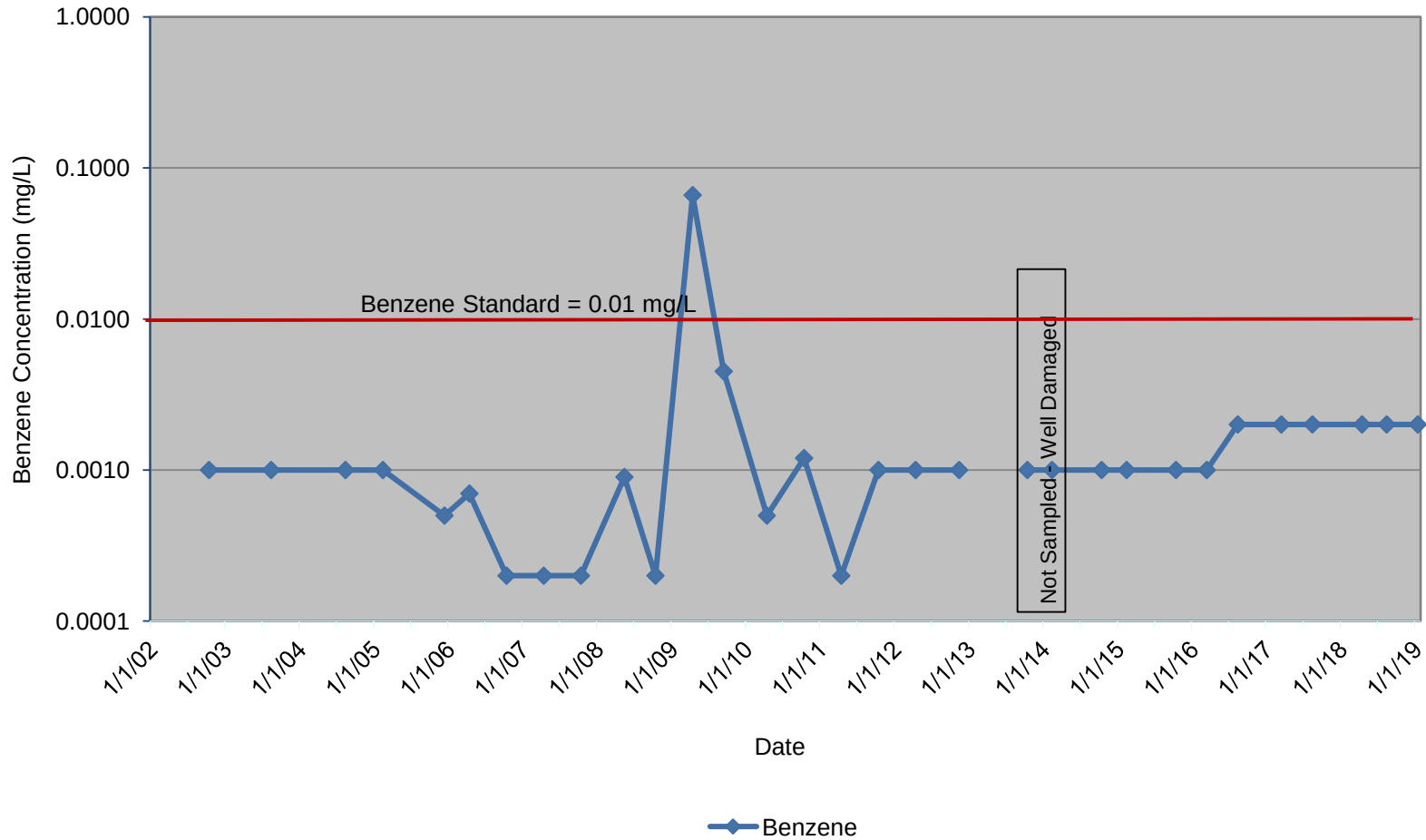
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-10



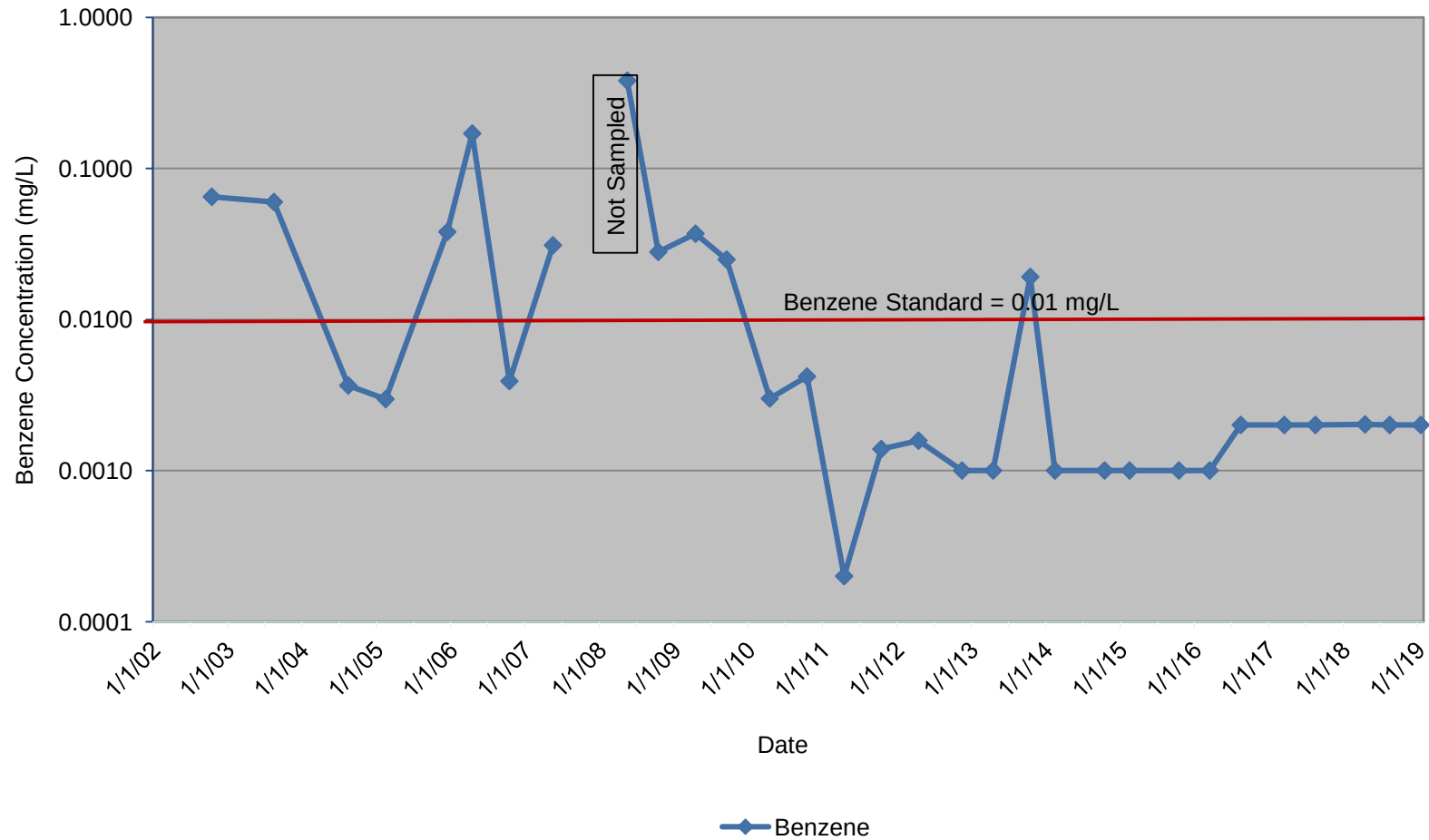
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-11



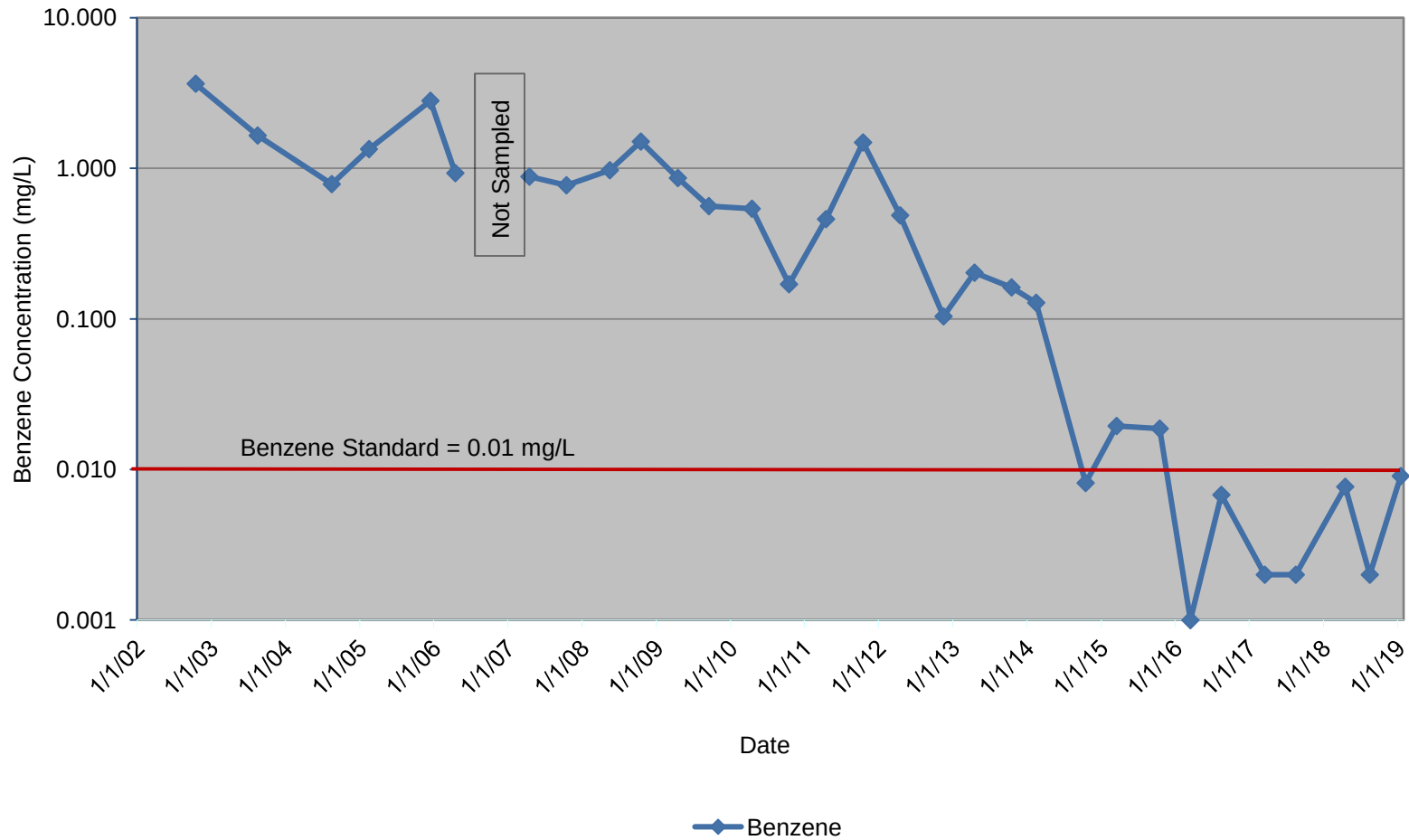
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-12



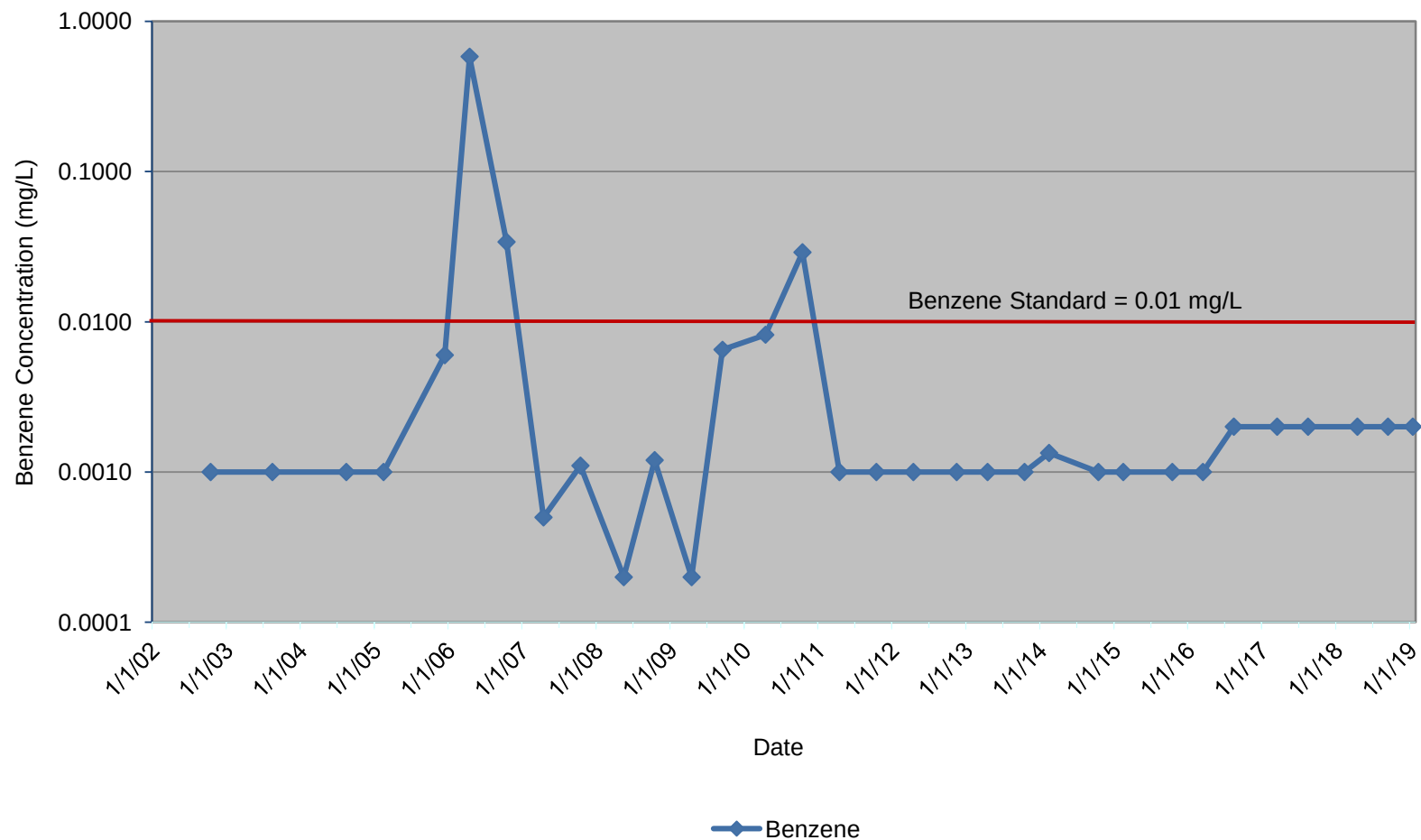
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-13



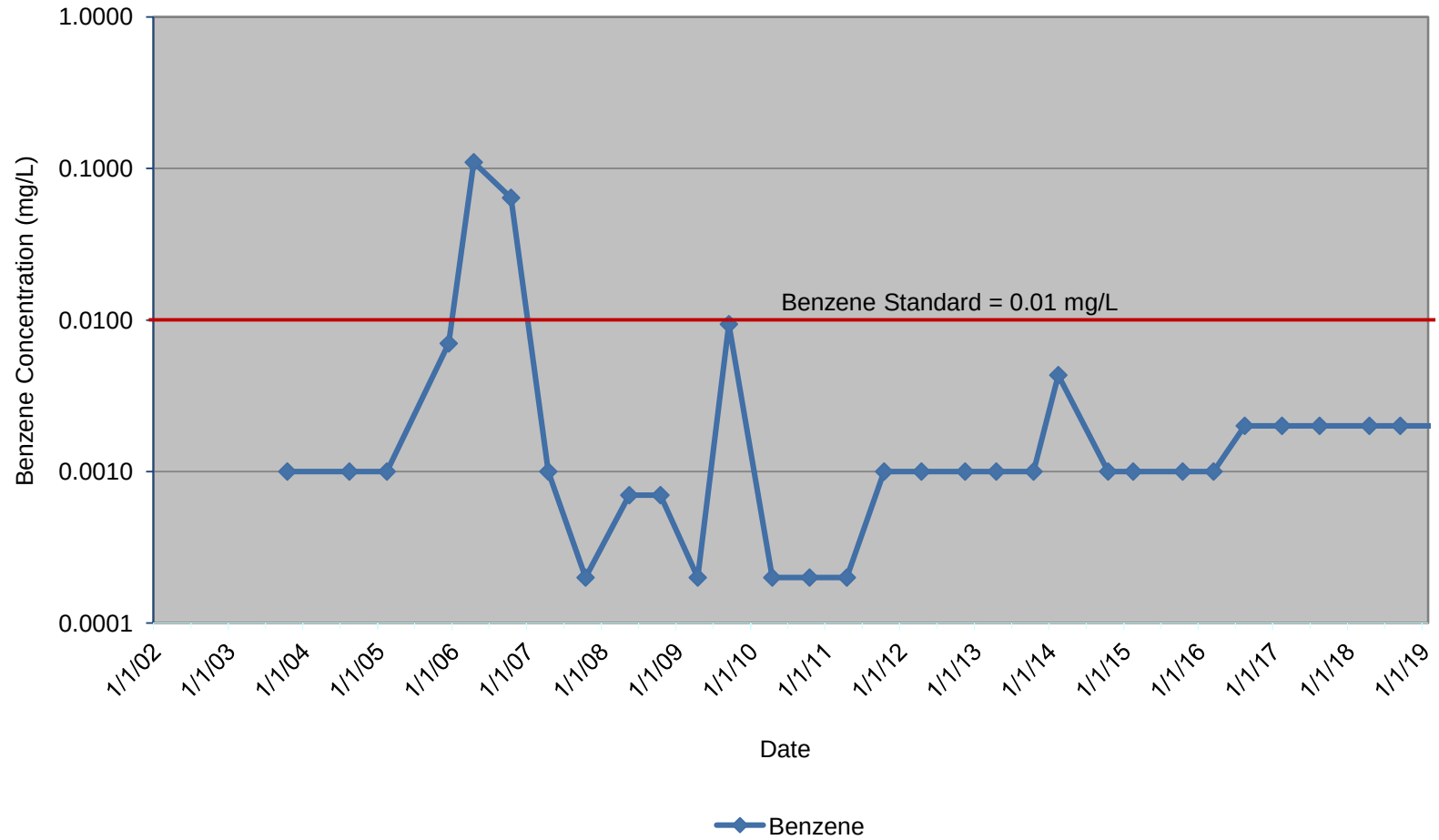
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-14



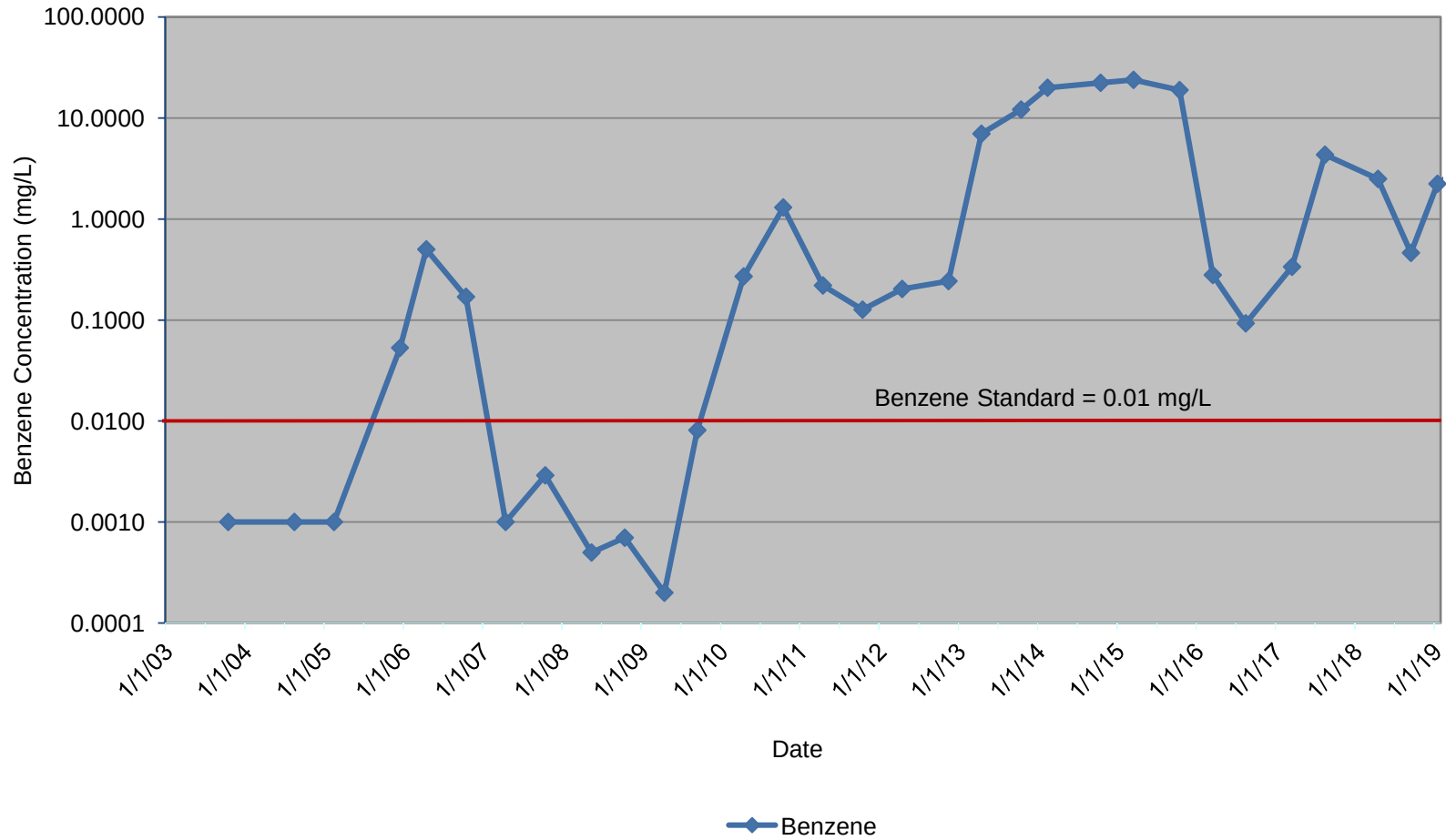
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-15



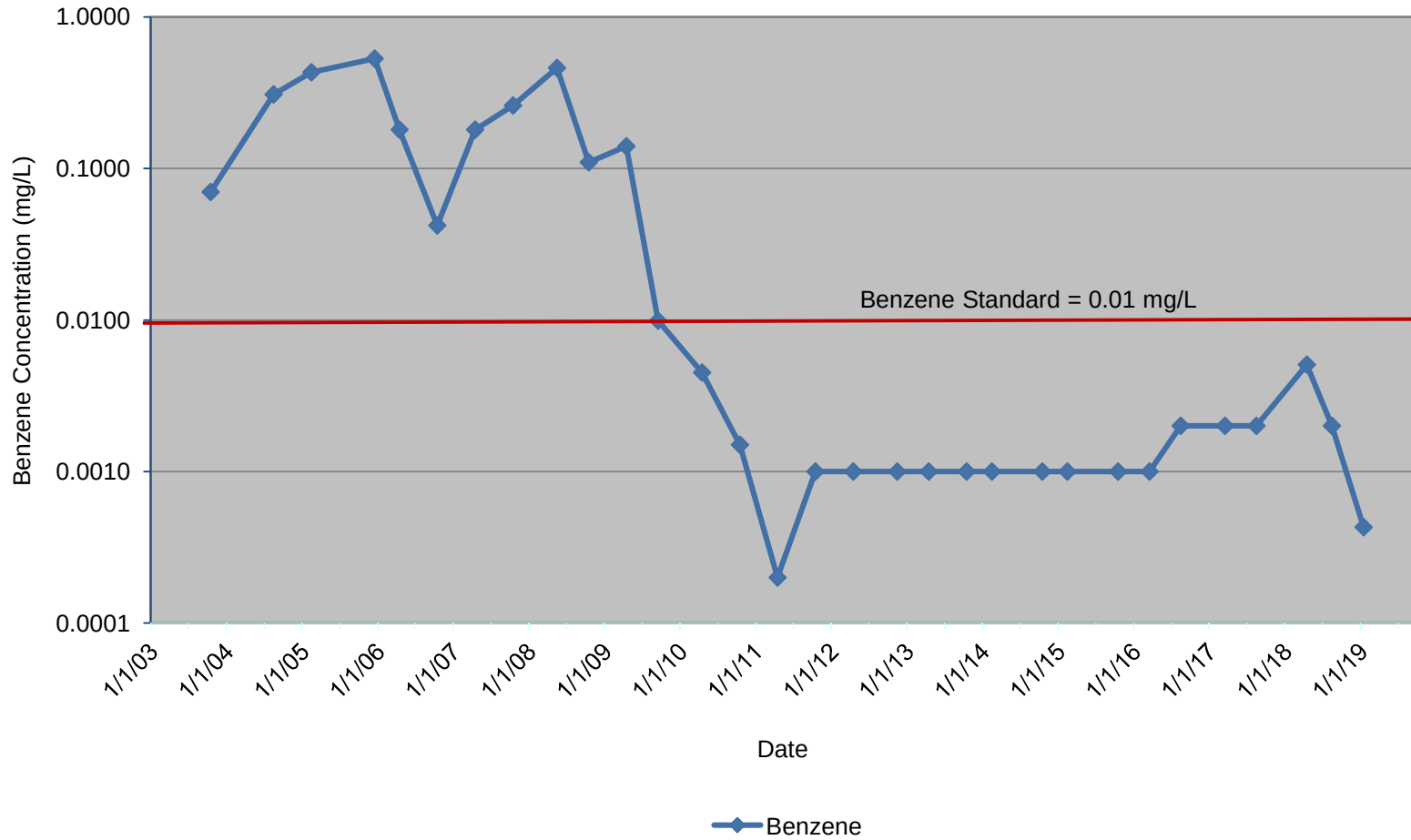
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-16



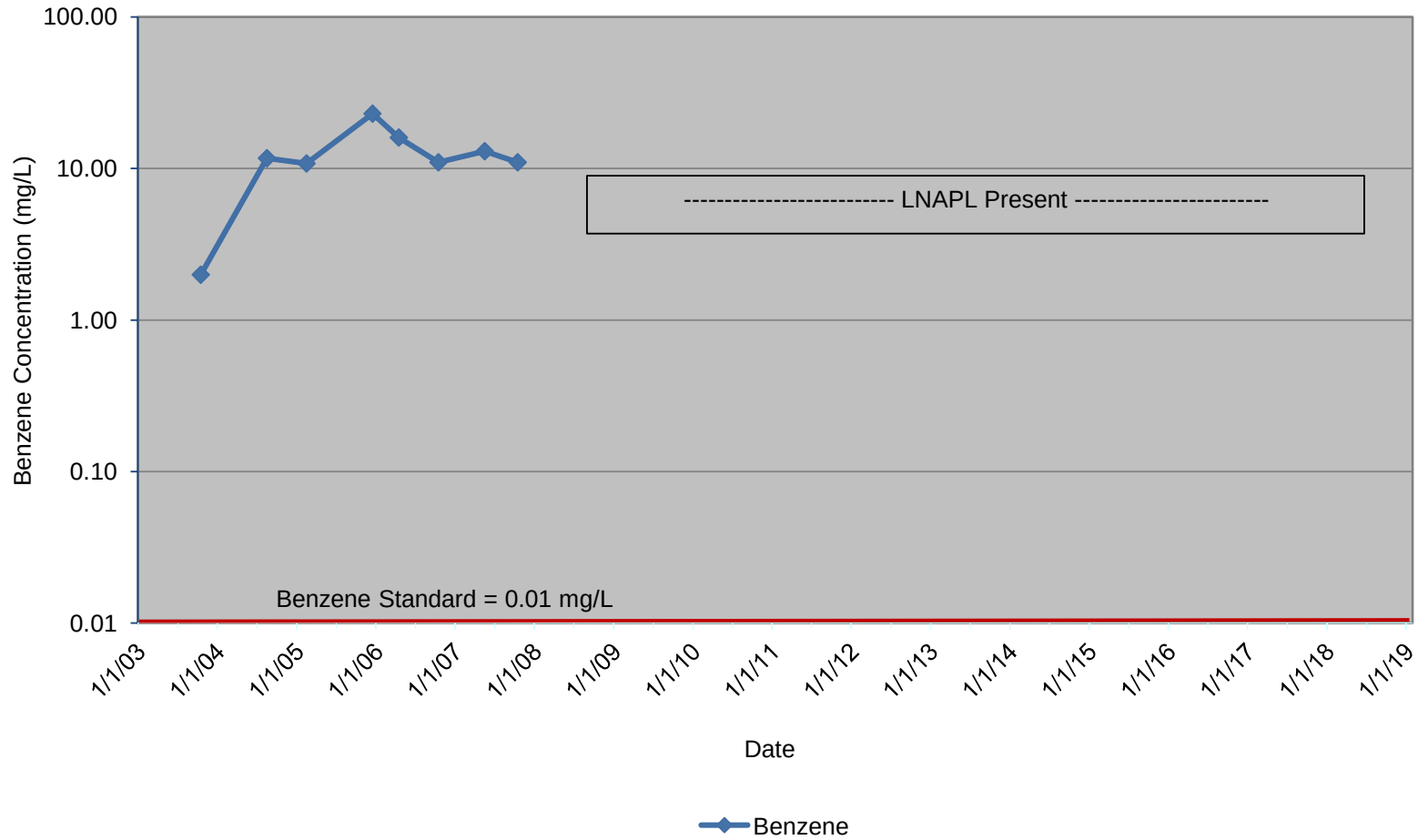
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-17



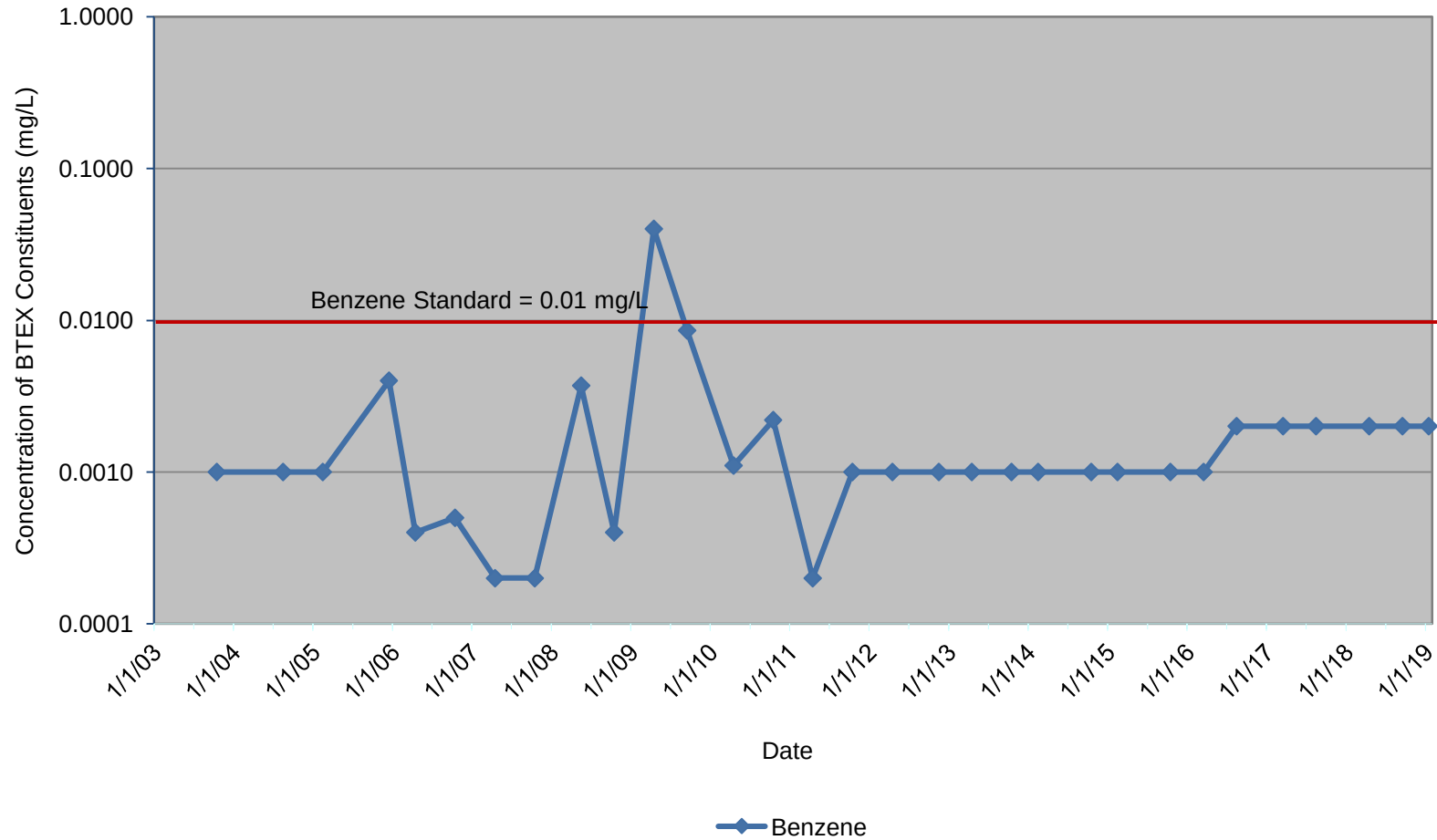
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-18



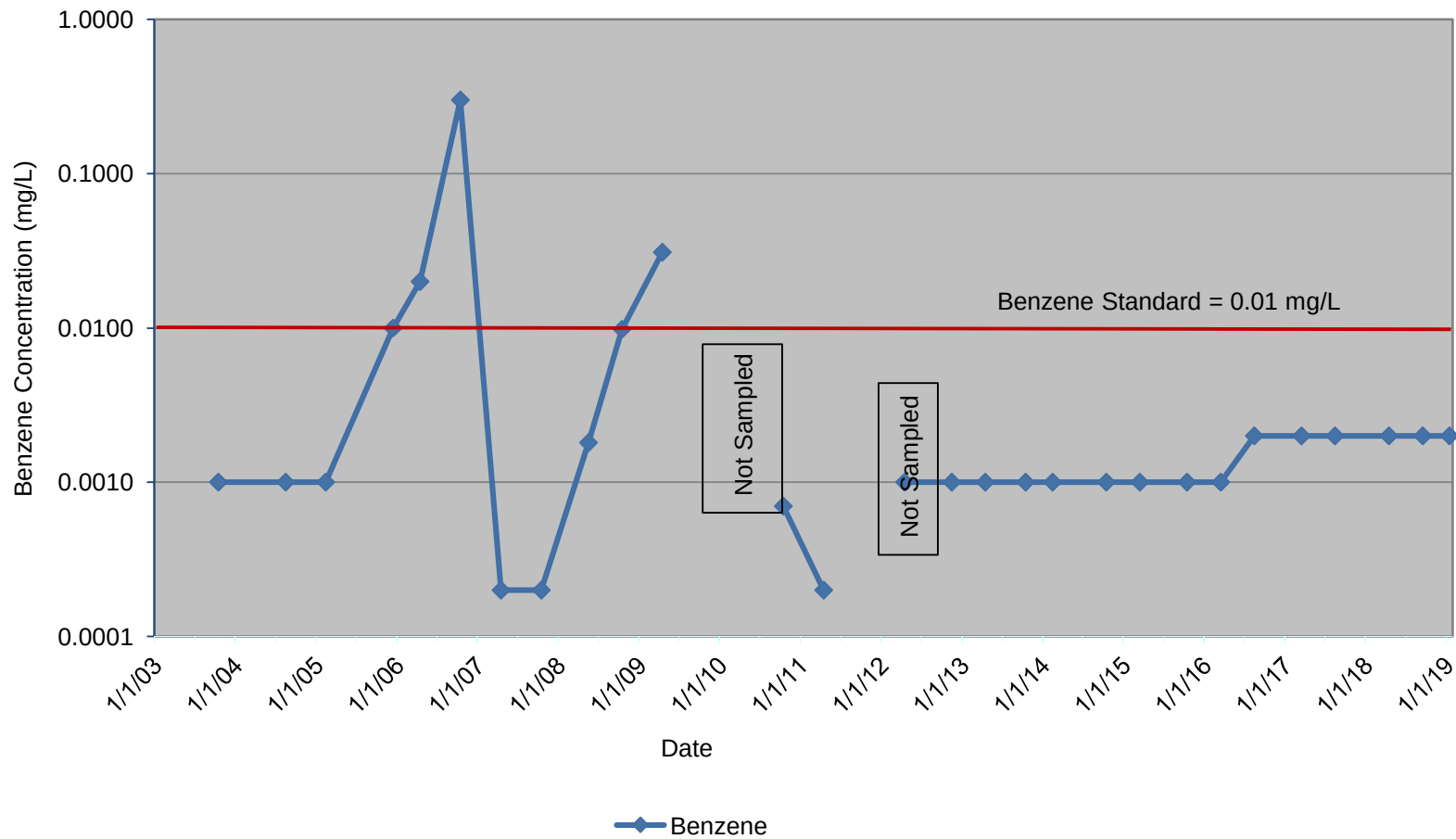
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-19



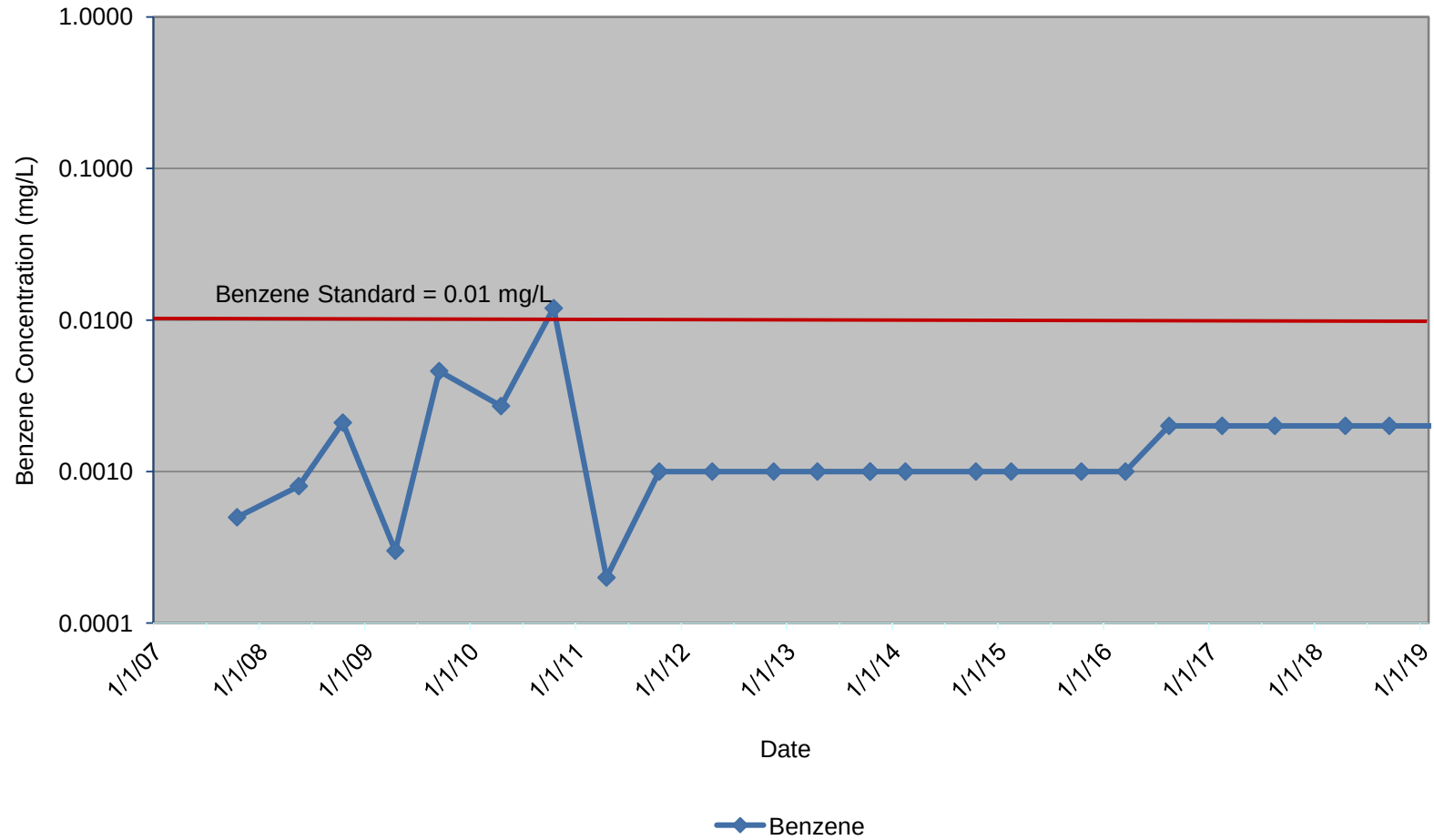
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-20



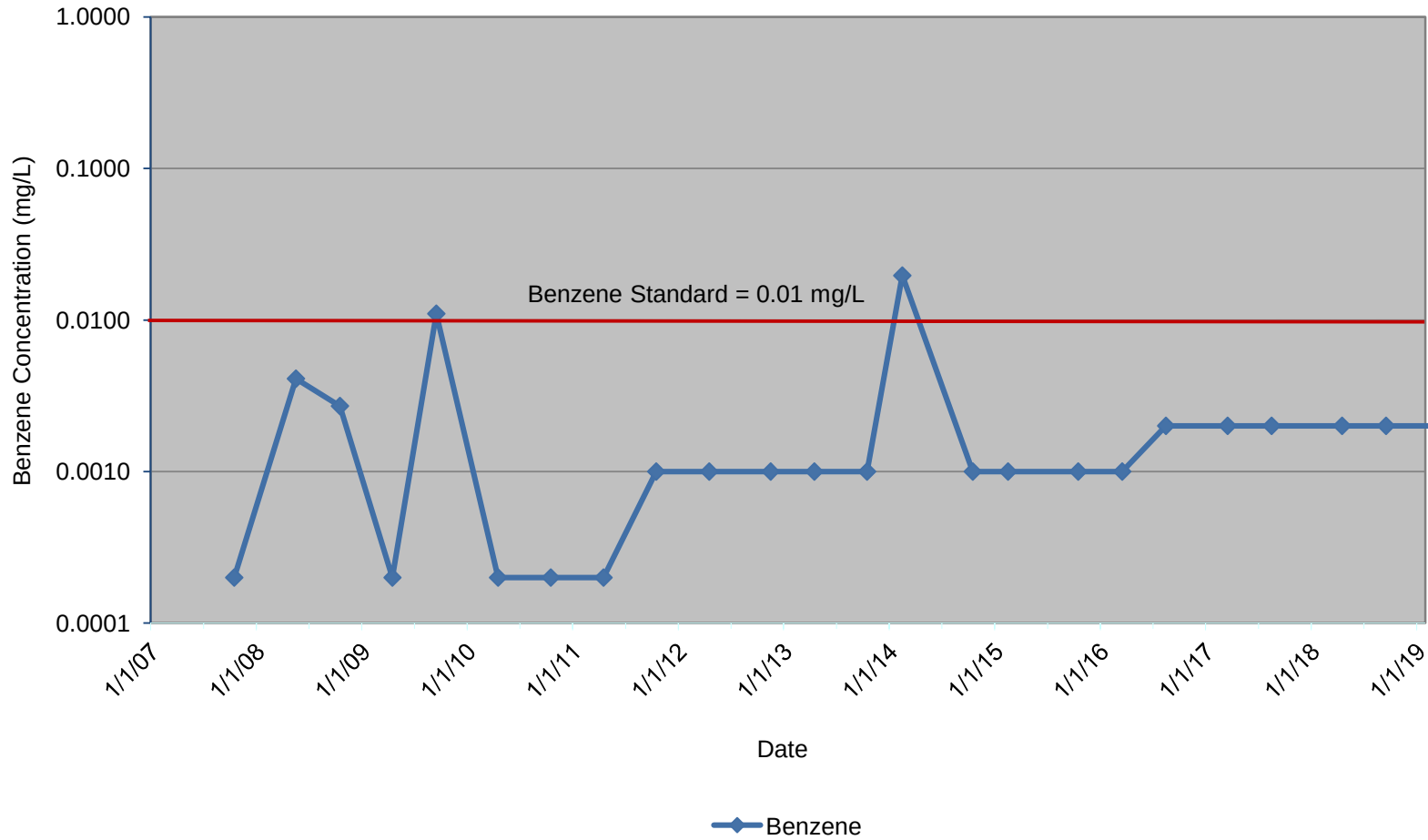
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-21



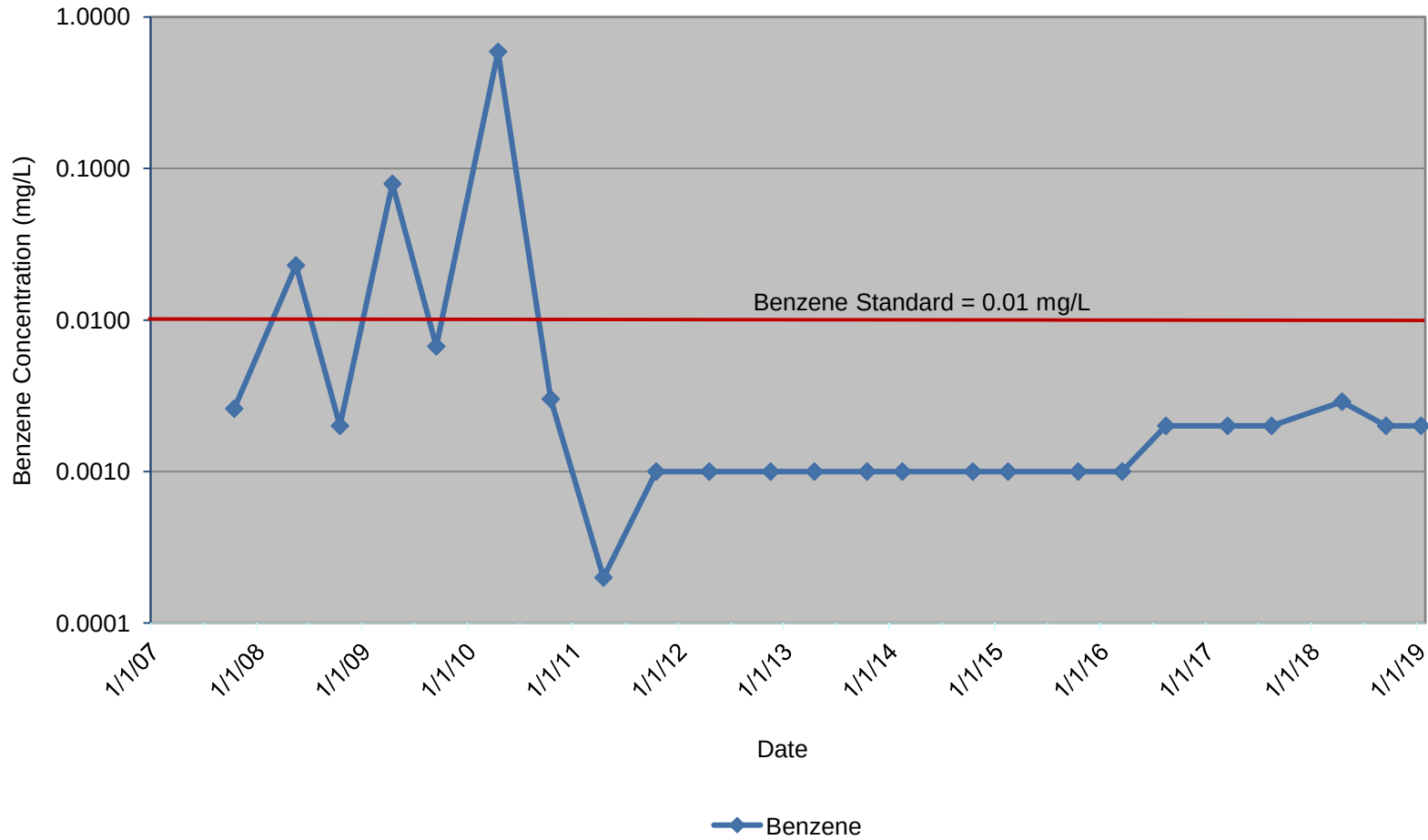
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-22



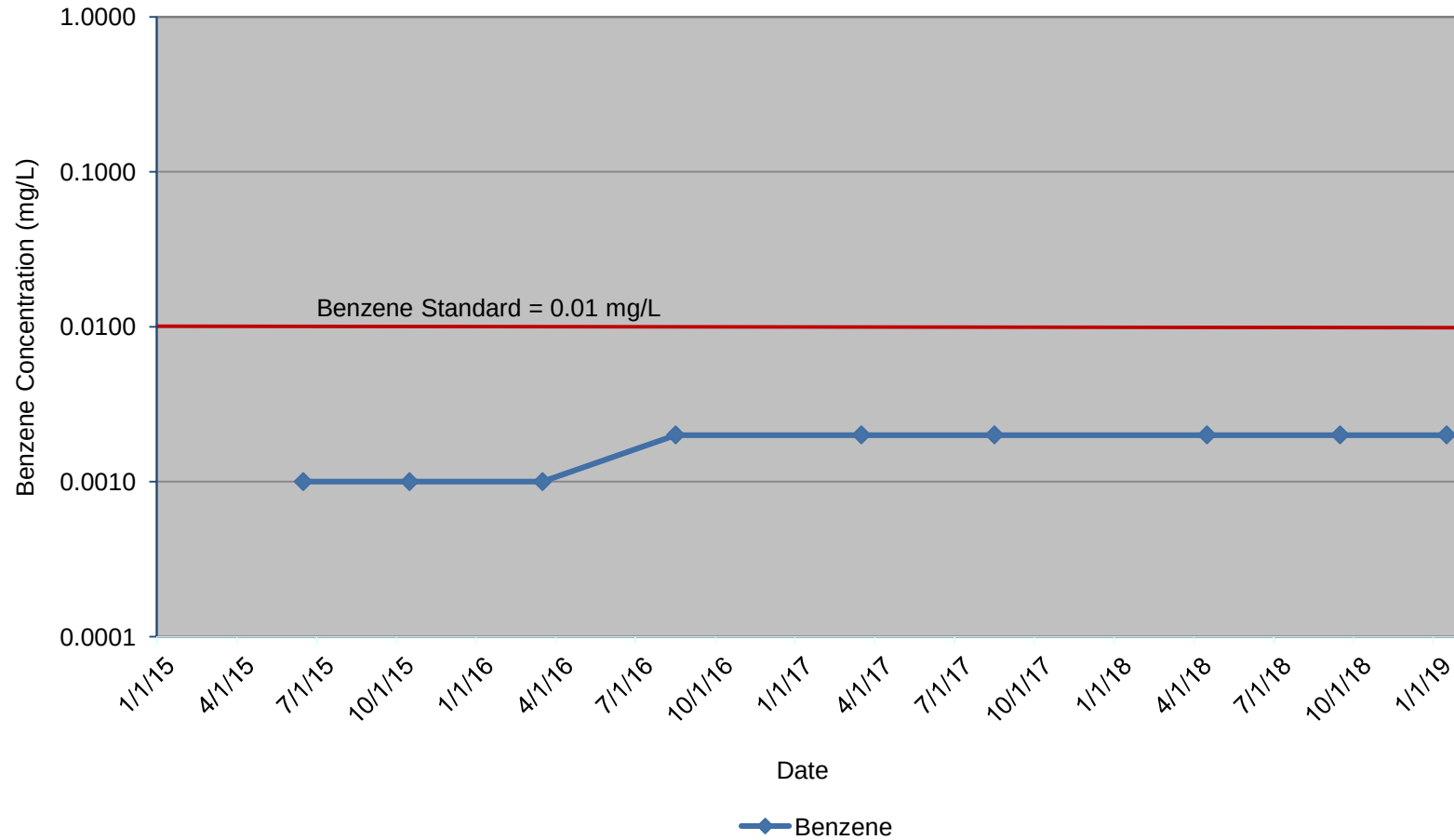
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-23



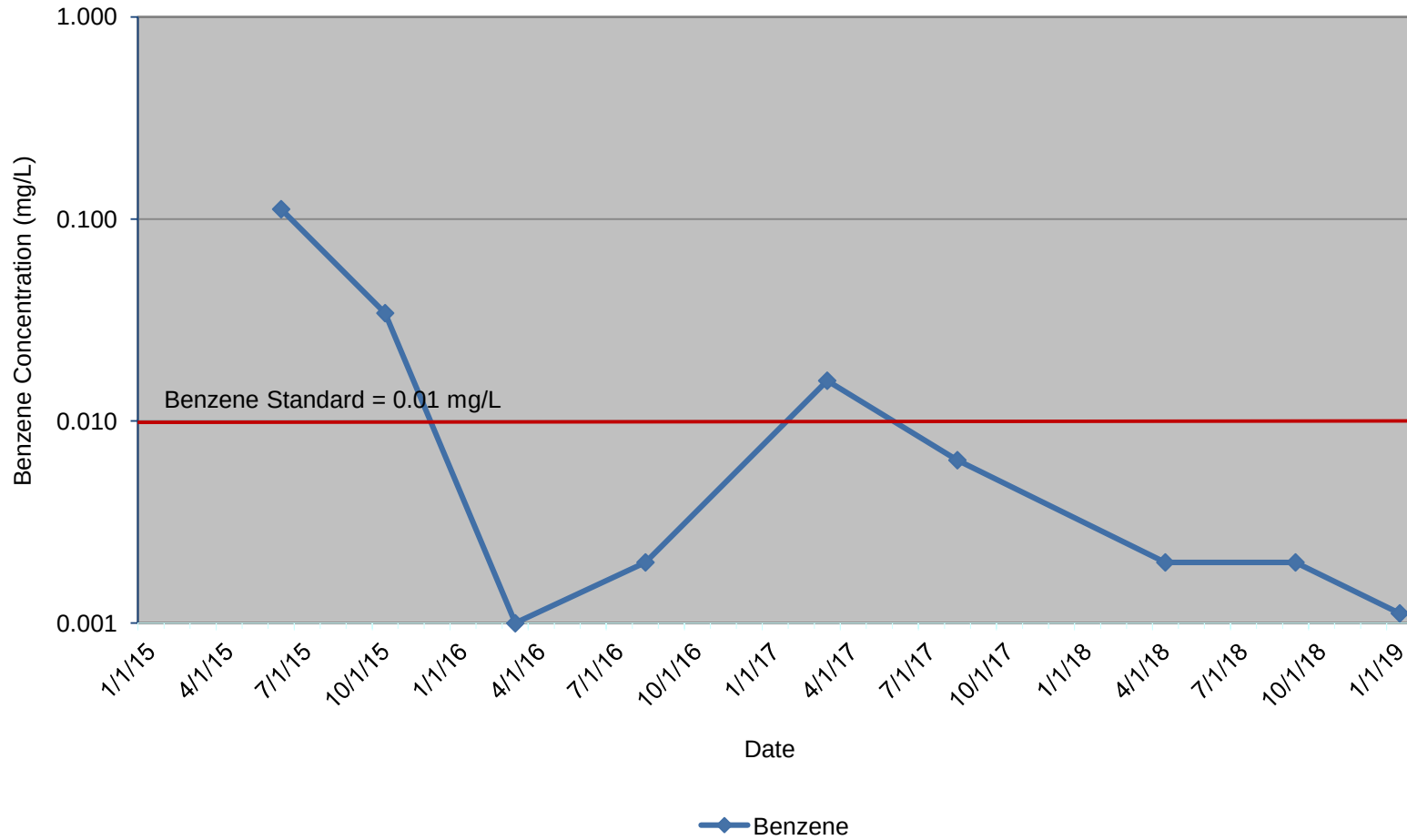
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-24



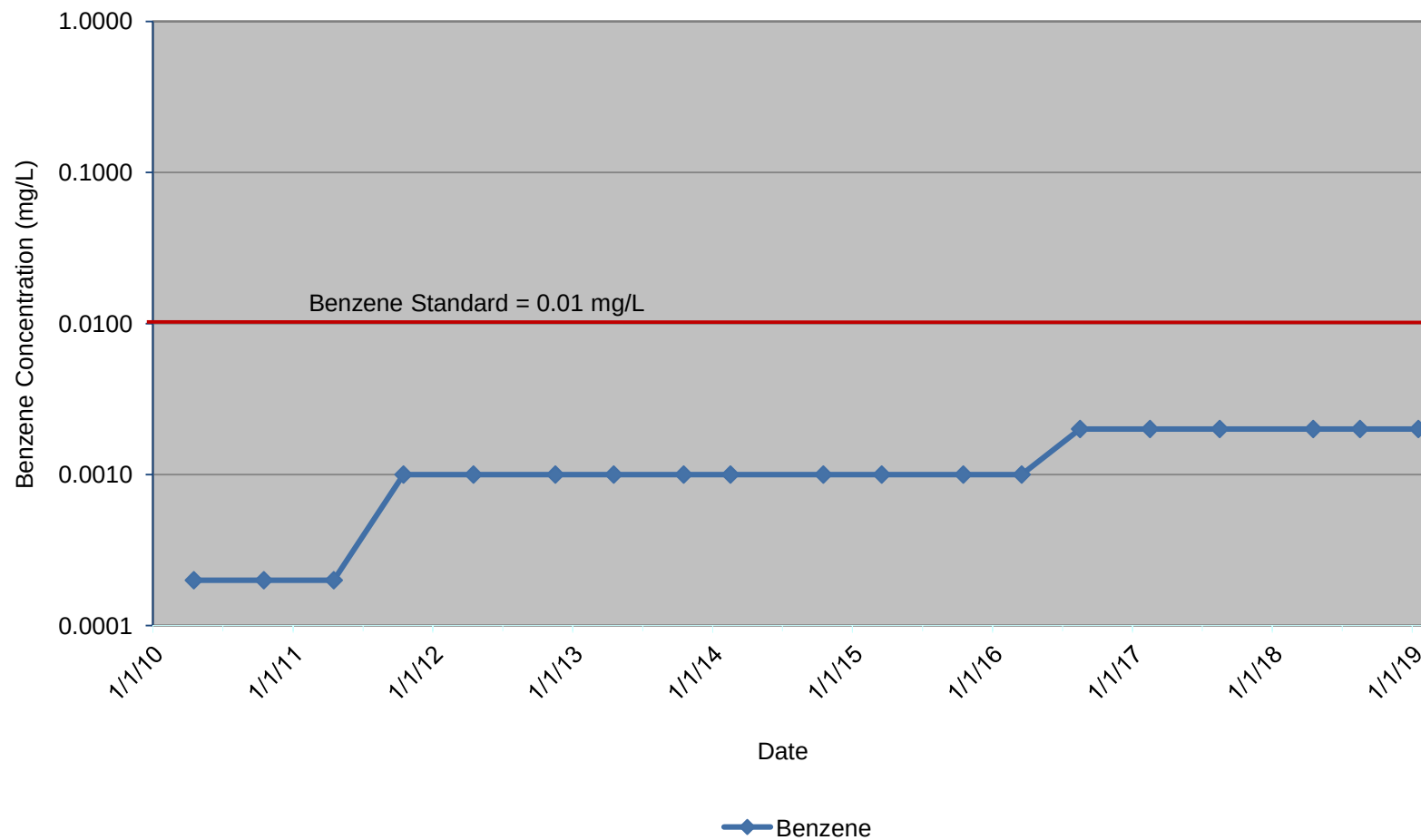
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-25



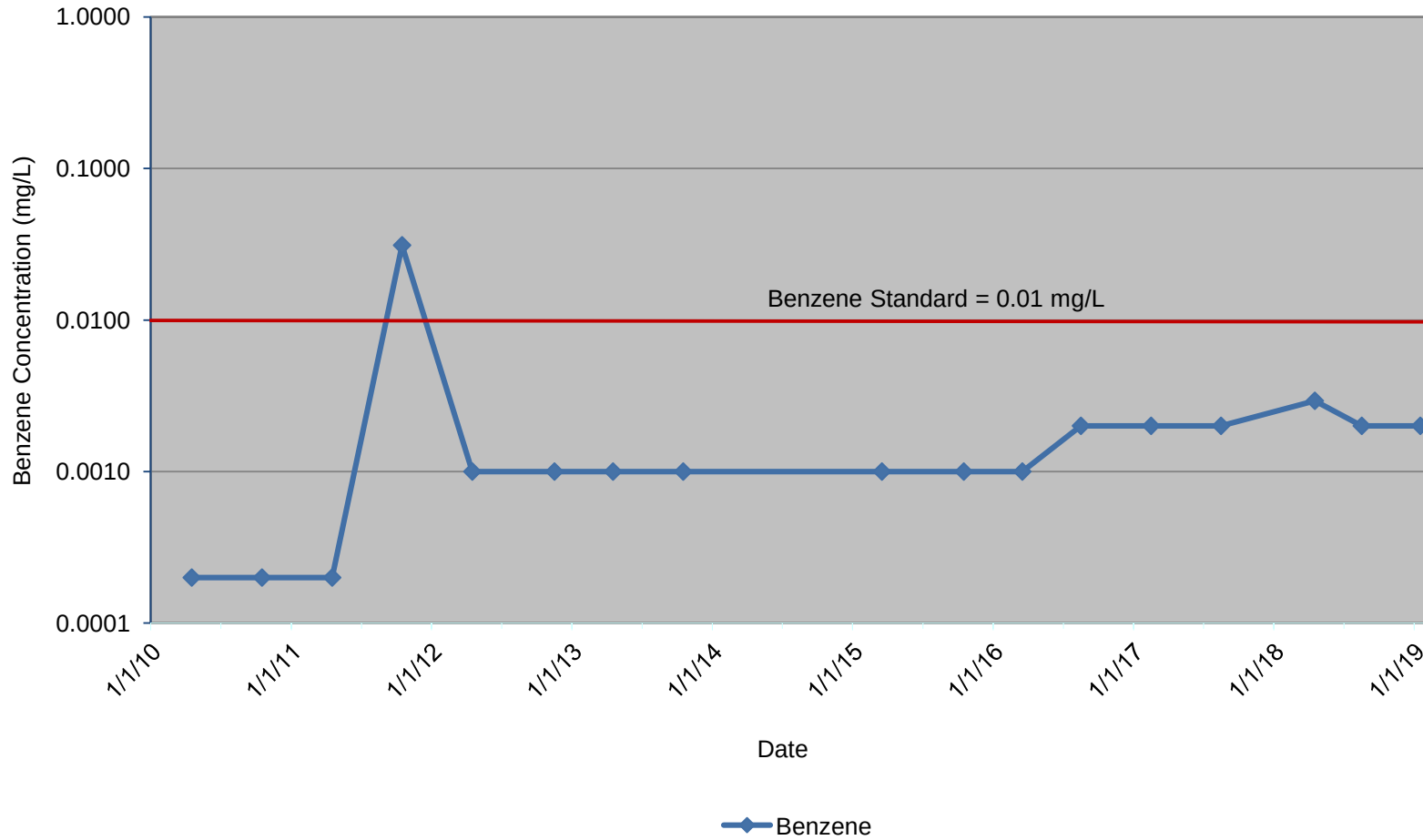
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Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
MW-26



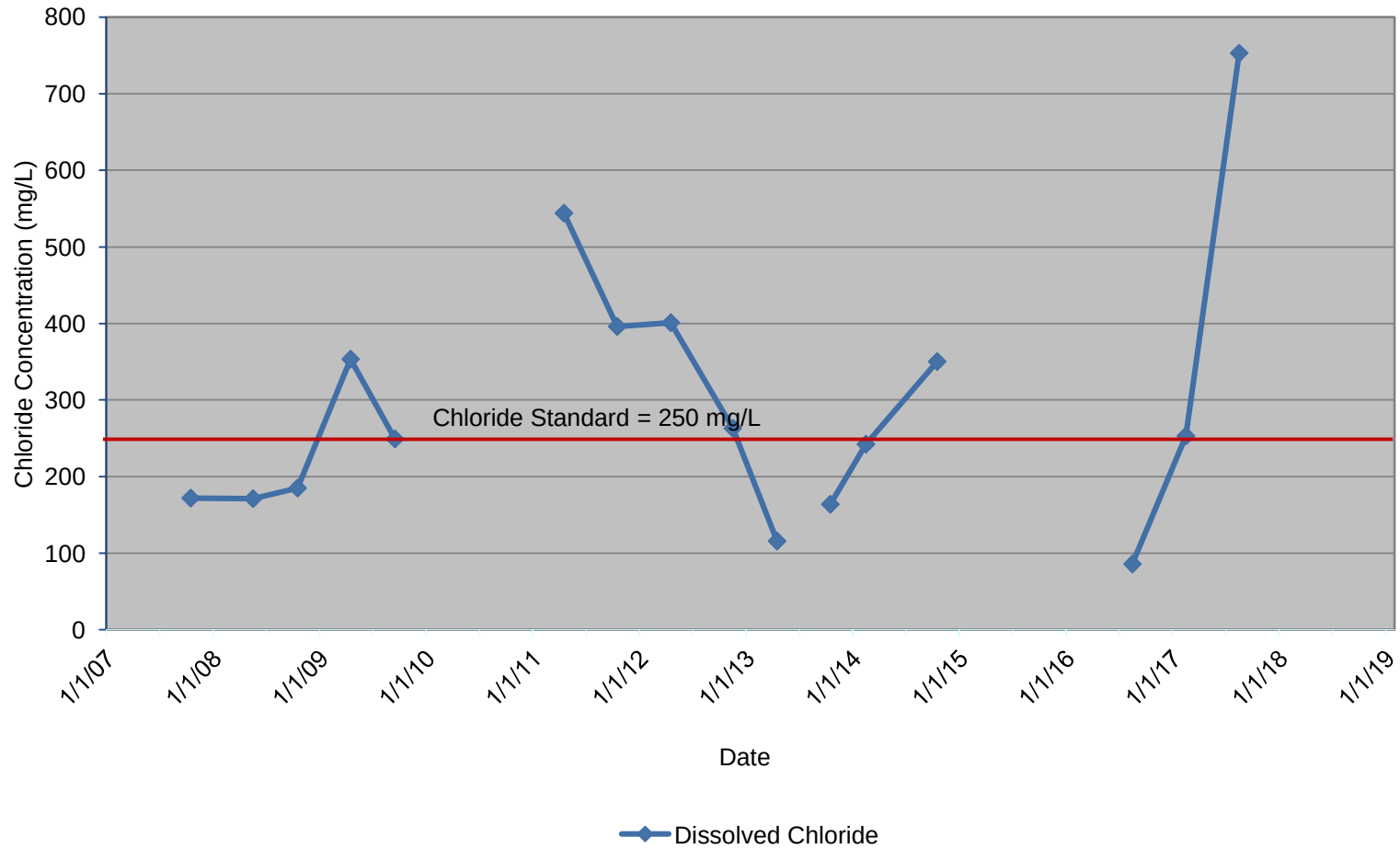
Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
TW-11



Chevron Enviromental Management Company
Buckeye Compressor Station
Lea County, NM
Benzene in Groundwater
TW-13



Chevron Environmental Management Company
Buckeye Compressor Station
Lea County, NM
Chloride in Groundwater
MW-22



APPENDIX G

Certified Laboratory Reports



ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-197829-1

Client Project/Site: Chevron - Buckeye Compressor Station

For:

ARCADIS U.S., Inc.
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Scott Foord



Authorized for release by:
1/14/2020 5:41:51 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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QC Sample Results	11
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QC Association Summary	15
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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197829-1

Project/Site: Chevron - Buckeye Compressor Station

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

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

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197829-1

Project/Site: Chevron - Buckeye Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-197829-1	MW-10-W-191218	Water	12/18/19 13:30	12/19/19 12:40	
600-197829-2	MW-20-W-191218	Water	12/18/19 13:55	12/19/19 12:40	
600-197829-3	TW-13-W-191218	Water	12/18/19 14:20	12/19/19 12:40	
600-197829-4	MW-13-W-191218	Water	12/18/19 15:15	12/19/19 12:40	
600-197829-5	MW-18-W-191218	Water	12/18/19 15:40	12/19/19 12:40	
600-197829-6	Trip Blank	Water	12/18/19 00:00	12/19/19 12:40	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Client Sample ID: MW-10-W-191218

Lab Sample ID: 600-197829-1

Date Collected: 12/18/19 13:30

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 18:34	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 18:34	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 18:34	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		50 - 134		12/24/19 18:34	1
Dibromofluoromethane	124		62 - 130		12/24/19 18:34	1
Toluene-d8 (Surr)	109		70 - 130		12/24/19 18:34	1
4-Bromofluorobenzene	94		67 - 139		12/24/19 18:34	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		70 - 130		12/23/19 11:08	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.16	J	0.28	0.050	mg/L		12/24/19 11:42	01/09/20 21:55	1
C28-C36	0.65		0.28	0.17	mg/L		12/24/19 11:42	01/09/20 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		60 - 140	12/24/19 11:42	01/09/20 21:55	1

Client Sample ID: MW-20-W-191218

Lab Sample ID: 600-197829-2

Date Collected: 12/18/19 13:55

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 19:02	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 19:02	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 19:02	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134		12/24/19 19:02	1
Dibromofluoromethane	113		62 - 130		12/24/19 19:02	1
Toluene-d8 (Surr)	94		70 - 130		12/24/19 19:02	1
4-Bromofluorobenzene	83		67 - 139		12/24/19 19:02	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		70 - 130		12/23/19 11:32	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Client Sample ID: MW-20-W-191218

Lab Sample ID: 600-197829-2

Date Collected: 12/18/19 13:55

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.092	J	0.27	0.048	mg/L		12/24/19 11:42	01/09/20 22:28	1
C28-C36	0.38		0.27	0.16	mg/L		12/24/19 11:42	01/09/20 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		60 - 140				12/24/19 11:42	01/09/20 22:28	1

Client Sample ID: TW-13-W-191218

Lab Sample ID: 600-197829-3

Date Collected: 12/18/19 14:20

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 19:30	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 19:30	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 19:30	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		50 - 134					12/24/19 19:30	1
Dibromofluoromethane	128		62 - 130					12/24/19 19:30	1
Toluene-d8 (Surr)	104		70 - 130					12/24/19 19:30	1
4-Bromofluorobenzene	89		67 - 139					12/24/19 19:30	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		70 - 130					12/23/19 11:56	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.091	J	0.26	0.047	mg/L		12/24/19 11:42	01/09/20 23:01	1
C28-C36	0.27		0.26	0.16	mg/L		12/24/19 11:42	01/09/20 23:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		60 - 140				12/24/19 11:42	01/09/20 23:01	1

Client Sample ID: MW-13-W-191218

Lab Sample ID: 600-197829-4

Date Collected: 12/18/19 15:15

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 19:58	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 19:58	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 19:58	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		50 - 134					12/24/19 19:58	1
Dibromofluoromethane	121		62 - 130					12/24/19 19:58	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Client Sample ID: MW-13-W-191218

Lab Sample ID: 600-197829-4

Date Collected: 12/18/19 15:15

Matrix: Water

Date Received: 12/19/19 12:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130		12/24/19 19:58	1
4-Bromofluorobenzene	85		67 - 139		12/24/19 19:58	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		70 - 130		12/23/19 12:20	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.080	J	0.26	0.047	mg/L		12/24/19 11:42	01/09/20 23:33	1
C28-C36	0.25	J	0.26	0.16	mg/L		12/24/19 11:42	01/09/20 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		60 - 140	12/24/19 11:42	01/09/20 23:33	1

Client Sample ID: MW-18-W-191218

Lab Sample ID: 600-197829-5

Date Collected: 12/18/19 15:40

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 20:25	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 20:25	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 20:25	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134		12/24/19 20:25	1
Dibromofluoromethane	119		62 - 130		12/24/19 20:25	1
Toluene-d8 (Surr)	97		70 - 130		12/24/19 20:25	1
4-Bromofluorobenzene	82		67 - 139		12/24/19 20:25	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	74		70 - 130		12/23/19 12:45	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.26		0.26	0.047	mg/L		12/24/19 11:42	01/10/20 00:06	1
C28-C36	0.19	J	0.26	0.16	mg/L		12/24/19 11:42	01/10/20 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		60 - 140	12/24/19 11:42	01/10/20 00:06	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Client Sample ID: Trip Blank

Lab Sample ID: 600-197829-6

Date Collected: 12/18/19 00:00

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 15:47	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 15:47	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 15:47	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		50 - 134		12/24/19 15:47	1
Dibromofluoromethane	103		62 - 130		12/24/19 15:47	1
Toluene-d8 (Surr)	92		70 - 130		12/24/19 15:47	1
4-Bromofluorobenzene	82		67 - 139		12/24/19 15:47	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-197829-1

Project/Site: Chevron - Buckeye Compressor Station

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (50-134)	DBFM (62-130)	TOL (70-130)	BFB (67-139)
600-197829-1	MW-10-W-191218	89	124	109	94
600-197829-2	MW-20-W-191218	80	113	94	83
600-197829-3	TW-13-W-191218	91	128	104	89
600-197829-4	MW-13-W-191218	84	121	105	85
600-197829-5	MW-18-W-191218	80	119	97	82
600-197829-6	Trip Blank	78	103	92	82
LCS 600-283975/4	Lab Control Sample	85	109	95	93
LCSD 600-283975/5	Lab Control Sample Dup	83	109	94	93
MB 600-283975/7	Method Blank	91	117	100	99

Surrogate Legend

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

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (70-130)			
600-197829-1	MW-10-W-191218	76			
600-197829-2	MW-20-W-191218	77			
600-197829-3	TW-13-W-191218	78			
600-197829-4	MW-13-W-191218	77			
600-197829-5	MW-18-W-191218	74			
LCS 600-283789/5	Lab Control Sample	81			
LCSD 600-283789/6	Lab Control Sample Dup	80			
MB 600-283789/7	Method Blank	78			

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1 (60-140)			
600-197829-1	MW-10-W-191218	80			
600-197829-2	MW-20-W-191218	68			
600-197829-3	TW-13-W-191218	70			
600-197829-4	MW-13-W-191218	69			
600-197829-5	MW-18-W-191218	70			
LCS 600-283979/2-A	Lab Control Sample	75			
LCSD 600-283979/3-A	Lab Control Sample Dup	80			
MB 600-283979/1-A	Method Blank	74			

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-283975/7

Matrix: Water

Analysis Batch: 283975

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 14:51	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 14:51	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 14:51	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 14:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		50 - 134		12/24/19 14:51	1
Dibromofluoromethane	117		62 - 130		12/24/19 14:51	1
Toluene-d8 (Surr)	100		70 - 130		12/24/19 14:51	1
4-Bromofluorobenzene	99		67 - 139		12/24/19 14:51	1

Lab Sample ID: LCS 600-283975/4

Matrix: Water

Analysis Batch: 283975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.00944		mg/L		94	70 - 130
Ethylbenzene	0.0100	0.0113		mg/L		113	70 - 130
Toluene	0.0100	0.0117		mg/L		117	70 - 130
Xylenes, Total	0.0200	0.0201		mg/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		50 - 134
Dibromofluoromethane	109		62 - 130
Toluene-d8 (Surr)	95		70 - 130
4-Bromofluorobenzene	93		67 - 139

Lab Sample ID: LCSD 600-283975/5

Matrix: Water

Analysis Batch: 283975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.00806		mg/L		81	70 - 130	16	20
Ethylbenzene	0.0100	0.00909	*	mg/L		91	70 - 130	21	20
Toluene	0.0100	0.00983		mg/L		98	70 - 130	17	20
Xylenes, Total	0.0200	0.0165		mg/L		82	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		50 - 134
Dibromofluoromethane	109		62 - 130
Toluene-d8 (Surr)	94		70 - 130
4-Bromofluorobenzene	93		67 - 139

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-283789/7

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/23/19 10:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		70 - 130					12/23/19 10:44	1

Lab Sample ID: LCS 600-283789/5

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	0.252	0.260		mg/L	-	103	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	81		70 - 130						

Lab Sample ID: LCSD 600-283789/6

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.252	0.287		mg/L	-	114	70 - 130	10	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	80		70 - 130						

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-283979/1-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 283979

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.045	U	0.25	0.045	mg/L	-	12/24/19 11:42	01/09/20 14:17	1
C28-C36	0.15	U	0.25	0.15	mg/L	-	12/24/19 11:42	01/09/20 14:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		60 - 140				12/24/19 11:42	01/09/20 14:17	1

Lab Sample ID: LCS 600-283979/2-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 283979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	1.00	0.974		mg/L	-	97	70 - 130		

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-283979/2-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 283979

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	75		60 - 140

Lab Sample ID: LCSD 600-283979/3-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 283979

	Spike	LCSD	LCSD						%Rec.	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Diesel Range Organics [C10-C28]	1.00	0.907		mg/L	-	91	70 - 130	7	30		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	80		60 - 140

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.

Job ID: 600-197829-1

Project/Site: Chevron - Buckeye Compressor Station

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units
Benzene	0.0010	0.00018	mg/L
Ethylbenzene	0.0010	0.00021	mg/L
Toluene	0.0010	0.00020	mg/L
Xylenes, Total	0.0020	0.00037	mg/L

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	0.050	0.023	mg/L

Method: 8015B - Diesel Range Organics (DRO) (GC)

Prep: 3510C

Analyte	MQL	MDL	Units
C28-C36	0.25	0.15	mg/L
Diesel Range Organics [C10-C28]	0.25	0.045	mg/L

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

GC/MS VOA

Analysis Batch: 283975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197829-1	MW-10-W-191218	Total/NA	Water	8260B	
600-197829-2	MW-20-W-191218	Total/NA	Water	8260B	
600-197829-3	TW-13-W-191218	Total/NA	Water	8260B	
600-197829-4	MW-13-W-191218	Total/NA	Water	8260B	
600-197829-5	MW-18-W-191218	Total/NA	Water	8260B	
600-197829-6	Trip Blank	Total/NA	Water	8260B	
MB 600-283975/7	Method Blank	Total/NA	Water	8260B	
LCS 600-283975/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-283975/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 283789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197829-1	MW-10-W-191218	Total/NA	Water	8015B	
600-197829-2	MW-20-W-191218	Total/NA	Water	8015B	
600-197829-3	TW-13-W-191218	Total/NA	Water	8015B	
600-197829-4	MW-13-W-191218	Total/NA	Water	8015B	
600-197829-5	MW-18-W-191218	Total/NA	Water	8015B	
MB 600-283789/7	Method Blank	Total/NA	Water	8015B	
LCS 600-283789/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 600-283789/6	Lab Control Sample Dup	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 283979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197829-1	MW-10-W-191218	Total/NA	Water	3510C	
600-197829-2	MW-20-W-191218	Total/NA	Water	3510C	
600-197829-3	TW-13-W-191218	Total/NA	Water	3510C	
600-197829-4	MW-13-W-191218	Total/NA	Water	3510C	
600-197829-5	MW-18-W-191218	Total/NA	Water	3510C	
MB 600-283979/1-A	Method Blank	Total/NA	Water	3510C	
LCS 600-283979/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 600-283979/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 284933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197829-1	MW-10-W-191218	Total/NA	Water	8015B	283979
600-197829-2	MW-20-W-191218	Total/NA	Water	8015B	283979
600-197829-3	TW-13-W-191218	Total/NA	Water	8015B	283979
600-197829-4	MW-13-W-191218	Total/NA	Water	8015B	283979
600-197829-5	MW-18-W-191218	Total/NA	Water	8015B	283979
MB 600-283979/1-A	Method Blank	Total/NA	Water	8015B	283979
LCS 600-283979/2-A	Lab Control Sample	Total/NA	Water	8015B	283979
LCSD 600-283979/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	283979

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Client Sample ID: MW-10-W-191218

Lab Sample ID: 600-197829-1

Date Collected: 12/18/19 13:30

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 18:34	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 11:08	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 21:55	RJV	TAL HOU

Client Sample ID: MW-20-W-191218

Lab Sample ID: 600-197829-2

Date Collected: 12/18/19 13:55

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 19:02	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 11:32	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 22:28	RJV	TAL HOU

Client Sample ID: TW-13-W-191218

Lab Sample ID: 600-197829-3

Date Collected: 12/18/19 14:20

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 19:30	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 11:56	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 23:01	RJV	TAL HOU

Client Sample ID: MW-13-W-191218

Lab Sample ID: 600-197829-4

Date Collected: 12/18/19 15:15

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 19:58	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 12:20	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 23:33	RJV	TAL HOU

Client Sample ID: MW-18-W-191218

Lab Sample ID: 600-197829-5

Date Collected: 12/18/19 15:40

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 20:25	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 12:45	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 00:06	RJV	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197829-1

Client Sample ID: Trip Blank
Date Collected: 12/18/19 00:00
Date Received: 12/19/19 12:40

Lab Sample ID: 600-197829-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 15:47	KLV	TAL HOU

Laboratory References:
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197829-1

Project/Site: Chevron - Buckeye Compressor Station

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Water	Gasoline Range Organics [C6 - C10]
8015B	3510C	Water	C28-C36
8015B	3510C	Water	Diesel Range Organics [C10-C28]

Chain of Custody Record

Environment Testing
TestAmerica

Client Information Client Contact: Douglas Jordan Phone: 800-831-9801 E-Mail: sachin.kudchadkar@testamerica.com		Lab PM: Kudchadkar, Sachin G Carrier Tracking No(s):		COC No: 600-72884-20028.1 Page: 1 of 1 Job #:
Company: ARCADIS U.S. Inc. Address: 10205 Westheimer Rd Suite 800 City: Houston State, Zip: TX, 77042 Phone: 713-953-4739(Tel) Email: douglas.jordan@arcadis.com Project Name: Chevron - Buckeye Compressor Station Site:		Analysis Requested Due Date Requested: TAT Requested (days): Stended PO #: WO #: Project #: 60011813 SSOW#:		
Sample Identification Sample ID: MW-10-W-191218 MW-20-W-191218 MW-13-W-191218 MW-13-W-191218 MW-18-W-191218		Sample Date: 12-18 12-18 12-18 12-18 12-18	Sample Time: 1330 1355 1420 1515 1540	Sample Type (C=Comp, G=grab): G G G G G
Matrix (W=Water, S=Solid, O=Other): Water Water Water Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No): 80158_GRO - [C6-C10] - 2 X 40 ml Vials/HCL - North Canton 80158_DRO - DRO C10-C20 (C28-C36) - 2 X 1L Amber - North Canton 82608_LL - BTEX Only 2540C_Caled - TDS 300_ORGM - Chloride		
Total Number of Containers: 7 7 7 7 7		Special Instructions/Note: CH 12-18-A		
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months				
Special Instructions/QC Requirements:				
Empty Kit Relinquished by:				
Relinquished by: Chas Huber Date/Time: 12-18-18 / 1700 Company: Arcadis		Relinquished by: YARRO Date/Time: 12/19/19 1240 Company: TAA		
Relinquished by:		Relinquished by:		
Relinquished by:		Relinquished by:		
Custody Seals Intact: Δ Yes Δ No Custody Seal No: 1080831		Cooler Temperature(s) °C and Other Remarks:		

Eurofins TestAmerica Houston

Loc: 600

197829

Environment Testing
TestAmerica

19 DEC 19 12:41

Sample Receipt Checklist

Date/Time Received: _____

JOB NUMBER: _____

CLIENT: ArcadisUNPACKED BY: JPCARRIER/DRIVER: FedExCustody Seal Present: ☒ YES ☐ NONumber of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
9143	Y / N	Y / N	2.1	676	+0.1	2.2
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:

☒ NO☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☒ YES ☐ NO ☐ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

COMMENTS:

JP 12/19/19

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-197829-1

Login Number: 197829

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-197852-1

Client Project/Site: Chevron - Buckeye Compressor Station

For:

ARCADIS U.S., Inc.
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Scott Foord



Authorized for release by:

1/14/2020 5:43:11 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444

sachin.kudchadkar@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197852-1

Project/Site: Chevron - Buckeye Compressor Station

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

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

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197852-1

Project/Site: Chevron - Buckeye Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-197852-1	MW-23-W-191219	Water	12/19/19 08:40	12/20/19 12:57	
600-197852-2	MW-22-W-191219	Water	12/19/19 09:10	12/20/19 12:57	
600-197852-3	MW-16-W-191219	Water	12/19/19 09:55	12/20/19 12:57	
600-197852-4	MW-15-W-191219	Water	12/19/19 10:30	12/20/19 12:57	
600-197852-5	MW-5-W-191219	Water	12/19/19 11:00	12/20/19 12:57	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Client Sample ID: MW-23-W-191219

Lab Sample ID: 600-197852-1

Date Collected: 12/19/19 08:40

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 20:53	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 20:53	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 20:53	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		50 - 134		12/24/19 20:53	1
Dibromofluoromethane	109		62 - 130		12/24/19 20:53	1
Toluene-d8 (Surr)	96		70 - 130		12/24/19 20:53	1
4-Bromofluorobenzene	79		67 - 139		12/24/19 20:53	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	74		70 - 130		12/23/19 13:09	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.073	J	0.28	0.050	mg/L		12/24/19 11:42	01/10/20 00:39	1
C28-C36	0.24	J	0.28	0.17	mg/L		12/24/19 11:42	01/10/20 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	68		60 - 140	12/24/19 11:42	01/10/20 00:39	1

Client Sample ID: MW-22-W-191219

Lab Sample ID: 600-197852-2

Date Collected: 12/19/19 09:10

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 21:21	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 21:21	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 21:21	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		50 - 134		12/24/19 21:21	1
Dibromofluoromethane	109		62 - 130		12/24/19 21:21	1
Toluene-d8 (Surr)	91		70 - 130		12/24/19 21:21	1
4-Bromofluorobenzene	77		67 - 139		12/24/19 21:21	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	74		70 - 130		12/23/19 13:33	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Client Sample ID: MW-22-W-191219

Lab Sample ID: 600-197852-2

Date Collected: 12/19/19 09:10

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.049	U	0.27	0.049	mg/L		12/24/19 11:42	01/10/20 01:11	1
C28-C36	0.16	U	0.27	0.16	mg/L		12/24/19 11:42	01/10/20 01:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		60 - 140				12/24/19 11:42	01/10/20 01:11	1

Client Sample ID: MW-16-W-191219

Lab Sample ID: 600-197852-3

Date Collected: 12/19/19 09:55

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 21:49	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 21:49	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 21:49	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134					12/24/19 21:49	1
Dibromofluoromethane	117		62 - 130					12/24/19 21:49	1
Toluene-d8 (Surr)	93		70 - 130					12/24/19 21:49	1
4-Bromofluorobenzene	81		67 - 139					12/24/19 21:49	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	74		70 - 130					12/23/19 13:58	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.049	U	0.27	0.049	mg/L		12/24/19 11:42	01/10/20 01:44	1
C28-C36	0.16	U	0.27	0.16	mg/L		12/24/19 11:42	01/10/20 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		60 - 140				12/24/19 11:42	01/10/20 01:44	1

Client Sample ID: MW-15-W-191219

Lab Sample ID: 600-197852-4

Date Collected: 12/19/19 10:30

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 22:17	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 22:17	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 22:17	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		50 - 134					12/24/19 22:17	1
Dibromofluoromethane	112		62 - 130					12/24/19 22:17	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Client Sample ID: MW-15-W-191219

Lab Sample ID: 600-197852-4

Date Collected: 12/19/19 10:30

Matrix: Water

Date Received: 12/20/19 12:57

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	87		70 - 130		12/24/19 22:17	1
4-Bromofluorobenzene	73		67 - 139		12/24/19 22:17	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	74		70 - 130		12/23/19 14:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.049	U	0.27	0.049	mg/L		12/24/19 11:42	01/10/20 02:17	1
C28-C36	0.16	U	0.27	0.16	mg/L		12/24/19 11:42	01/10/20 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140	12/24/19 11:42	01/10/20 02:17	1

Client Sample ID: MW-5-W-191219

Lab Sample ID: 600-197852-5

Date Collected: 12/19/19 11:00

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 22:45	1
Ethylbenzene	0.00021	U *	0.0010	0.00021	mg/L			12/24/19 22:45	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 22:45	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		50 - 134		12/24/19 22:45	1
Dibromofluoromethane	129		62 - 130		12/24/19 22:45	1
Toluene-d8 (Surr)	100		70 - 130		12/24/19 22:45	1
4-Bromofluorobenzene	87		67 - 139		12/24/19 22:45	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	74		70 - 130		12/23/19 14:46	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.11	J	0.28	0.051	mg/L		12/24/19 11:42	01/10/20 02:49	1
C28-C36	0.29		0.28	0.17	mg/L		12/24/19 11:42	01/10/20 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		60 - 140	12/24/19 11:42	01/10/20 02:49	1

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-197852-1

Project/Site: Chevron - Buckeye Compressor Station

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (50-134)	DBFM (62-130)	TOL (70-130)	BFB (67-139)
600-197852-1	MW-23-W-191219	76	109	96	79
600-197852-2	MW-22-W-191219	78	109	91	77
600-197852-3	MW-16-W-191219	80	117	93	81
600-197852-4	MW-15-W-191219	74	112	87	73
600-197852-5	MW-5-W-191219	88	129	100	87
LCS 600-283975/4	Lab Control Sample	85	109	95	93
LCSD 600-283975/5	Lab Control Sample Dup	83	109	94	93
MB 600-283975/7	Method Blank	91	117	100	99
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
DBFM = Dibromofluoromethane					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorobenzene					

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (70-130)			
600-197852-1	MW-23-W-191219	74			
600-197852-2	MW-22-W-191219	74			
600-197852-3	MW-16-W-191219	74			
600-197852-4	MW-15-W-191219	74			
600-197852-5	MW-5-W-191219	74			
LCS 600-283789/5	Lab Control Sample	81			
LCSD 600-283789/6	Lab Control Sample Dup	80			
MB 600-283789/7	Method Blank	78			
Surrogate Legend					
TFT = a,a,a-Trifluorotoluene					

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1 (60-140)			
600-197852-1	MW-23-W-191219	68			
600-197852-2	MW-22-W-191219	71			
600-197852-3	MW-16-W-191219	71			
600-197852-4	MW-15-W-191219	73			
600-197852-5	MW-5-W-191219	75			
LCS 600-283979/2-A	Lab Control Sample	75			
LCSD 600-283979/3-A	Lab Control Sample Dup	80			
MB 600-283979/1-A	Method Blank	74			
Surrogate Legend					
OTPH = o-Terphenyl					

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-283975/7

Matrix: Water

Analysis Batch: 283975

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 14:51	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 14:51	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 14:51	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 14:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		50 - 134		12/24/19 14:51	1
Dibromofluoromethane	117		62 - 130		12/24/19 14:51	1
Toluene-d8 (Surr)	100		70 - 130		12/24/19 14:51	1
4-Bromofluorobenzene	99		67 - 139		12/24/19 14:51	1

Lab Sample ID: LCS 600-283975/4

Matrix: Water

Analysis Batch: 283975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.00944		mg/L		94	70 - 130
Ethylbenzene	0.0100	0.0113		mg/L		113	70 - 130
Toluene	0.0100	0.0117		mg/L		117	70 - 130
Xylenes, Total	0.0200	0.0201		mg/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		50 - 134
Dibromofluoromethane	109		62 - 130
Toluene-d8 (Surr)	95		70 - 130
4-Bromofluorobenzene	93		67 - 139

Lab Sample ID: LCSD 600-283975/5

Matrix: Water

Analysis Batch: 283975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.00806		mg/L		81	70 - 130	16	20
Ethylbenzene	0.0100	0.00909	*	mg/L		91	70 - 130	21	20
Toluene	0.0100	0.00983		mg/L		98	70 - 130	17	20
Xylenes, Total	0.0200	0.0165		mg/L		82	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		50 - 134
Dibromofluoromethane	109		62 - 130
Toluene-d8 (Surr)	94		70 - 130
4-Bromofluorobenzene	93		67 - 139

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-283789/7

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/23/19 10:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		70 - 130					12/23/19 10:44	1

Lab Sample ID: LCS 600-283789/5

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	0.252	0.260		mg/L	-	103	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	81		70 - 130						

Lab Sample ID: LCSD 600-283789/6

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.252	0.287		mg/L	-	114	70 - 130	10	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	80		70 - 130						

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-283979/1-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 283979

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.045	U	0.25	0.045	mg/L	-	12/24/19 11:42	01/09/20 14:17	1
C28-C36	0.15	U	0.25	0.15	mg/L	-	12/24/19 11:42	01/09/20 14:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		60 - 140				12/24/19 11:42	01/09/20 14:17	1

Lab Sample ID: LCS 600-283979/2-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 283979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	1.00	0.974		mg/L	-	97	70 - 130		

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-283979/2-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 283979

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	75		60 - 140

Lab Sample ID: LCSD 600-283979/3-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 283979

	Spike	LCSD	LCSD						%Rec.	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Diesel Range Organics [C10-C28]	1.00	0.907		mg/L	-	91	70 - 130	7	30		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	80		60 - 140

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.

Job ID: 600-197852-1

Project/Site: Chevron - Buckeye Compressor Station

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units
Benzene	0.0010	0.00018	mg/L
Ethylbenzene	0.0010	0.00021	mg/L
Toluene	0.0010	0.00020	mg/L
Xylenes, Total	0.0020	0.00037	mg/L

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	0.050	0.023	mg/L

Method: 8015B - Diesel Range Organics (DRO) (GC)

Prep: 3510C

Analyte	MQL	MDL	Units
C28-C36	0.25	0.15	mg/L
Diesel Range Organics [C10-C28]	0.25	0.045	mg/L

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

GC/MS VOA

Analysis Batch: 283975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197852-1	MW-23-W-191219	Total/NA	Water	8260B	
600-197852-2	MW-22-W-191219	Total/NA	Water	8260B	
600-197852-3	MW-16-W-191219	Total/NA	Water	8260B	
600-197852-4	MW-15-W-191219	Total/NA	Water	8260B	
600-197852-5	MW-5-W-191219	Total/NA	Water	8260B	
MB 600-283975/7	Method Blank	Total/NA	Water	8260B	
LCS 600-283975/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-283975/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 283789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197852-1	MW-23-W-191219	Total/NA	Water	8015B	
600-197852-2	MW-22-W-191219	Total/NA	Water	8015B	
600-197852-3	MW-16-W-191219	Total/NA	Water	8015B	
600-197852-4	MW-15-W-191219	Total/NA	Water	8015B	
600-197852-5	MW-5-W-191219	Total/NA	Water	8015B	
MB 600-283789/7	Method Blank	Total/NA	Water	8015B	
LCS 600-283789/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 600-283789/6	Lab Control Sample Dup	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 283979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197852-1	MW-23-W-191219	Total/NA	Water	3510C	
600-197852-2	MW-22-W-191219	Total/NA	Water	3510C	
600-197852-3	MW-16-W-191219	Total/NA	Water	3510C	
600-197852-4	MW-15-W-191219	Total/NA	Water	3510C	
600-197852-5	MW-5-W-191219	Total/NA	Water	3510C	
MB 600-283979/1-A	Method Blank	Total/NA	Water	3510C	
LCS 600-283979/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 600-283979/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 284933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197852-1	MW-23-W-191219	Total/NA	Water	8015B	283979
600-197852-2	MW-22-W-191219	Total/NA	Water	8015B	283979
600-197852-3	MW-16-W-191219	Total/NA	Water	8015B	283979
600-197852-4	MW-15-W-191219	Total/NA	Water	8015B	283979
600-197852-5	MW-5-W-191219	Total/NA	Water	8015B	283979
MB 600-283979/1-A	Method Blank	Total/NA	Water	8015B	283979
LCS 600-283979/2-A	Lab Control Sample	Total/NA	Water	8015B	283979
LCSD 600-283979/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	283979

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Client Sample ID: MW-23-W-191219

Lab Sample ID: 600-197852-1

Date Collected: 12/19/19 08:40

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 20:53	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 13:09	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 00:39	RJV	TAL HOU

Client Sample ID: MW-22-W-191219

Lab Sample ID: 600-197852-2

Date Collected: 12/19/19 09:10

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 21:21	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 13:33	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 01:11	RJV	TAL HOU

Client Sample ID: MW-16-W-191219

Lab Sample ID: 600-197852-3

Date Collected: 12/19/19 09:55

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 21:49	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 13:58	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 01:44	RJV	TAL HOU

Client Sample ID: MW-15-W-191219

Lab Sample ID: 600-197852-4

Date Collected: 12/19/19 10:30

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 22:17	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 14:22	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 02:17	RJV	TAL HOU

Client Sample ID: MW-5-W-191219

Lab Sample ID: 600-197852-5

Date Collected: 12/19/19 11:00

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283975	12/24/19 22:45	KLV	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 14:46	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 02:49	RJV	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197852-1

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197852-1

Project/Site: Chevron - Buckeye Compressor Station

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Water	Gasoline Range Organics [C6 - C10]
8015B	3510C	Water	C28-C36
8015B	3510C	Water	Diesel Range Organics [C10-C28]

Chain of Custody Record

Client Information		Lab PM: Kudchadkar, Sachin G		Carrier Tracking No(s):	
Client Contact: Chas Holder		E-Mail: sachin.kudchadkar@testamerica.com		COC No: 600-72884-20028.1	
Company: ARCADIS U.S. Inc		Phone: 606-831-4801		Page: 1 of 1	
Address: 10205 Westheimer Rd Suite 800		Due Date Requested:		Job #:	
City: Houston		TAT Requested (days):		Analysis Requested	
State, Zip: TX, 77042		PO #:		Preservation Codes:	
Phone: 713-953-4739(Tel)		WO #:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email: douglas.jordan@arcadis.com		Project #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Project Name: Chevron - Buckeye Compressor Station		SSOW#:		Total Number of Containers	
Site:				Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (W=water, S=solid, O=water/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B G-RO - (C6-C10) - 2 X 40 ml Vials/HCL - North Canton	8015B DRO - DRO C10-C28) (C28-C36) - 2 X 1L Amber - North Canton	8260B LL - BTX Only	2540C Calcd. - TDS	300_ORGFM - Chloride
MW-23-W-191219	12-19	0840	G		Water			2	2	3		
MW-22-W-191219	12-19	0910	G		Water			2	2	3		
MW-16-W-191219	12-19	0955	G		Water			2	2	3		
MW-15-W-191219	12-19	1030	G		Water			2	2	3		
MW-5-W-191219	12-19	1100	G		Water			2	2	3		
					Water							
					Water							
					Water							
					Water							
					Water							
					Water							

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard	☐ Flammable	☐ Return To Client	☐ Disposal By Lab
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: Chas Holder	Date: 12-19-19 1600	Received by: Yarko	
Relinquished by:	Date/Time:	Date/Time: 12/20/19 1257	
Relinquished by:	Date/Time:	Date/Time:	
Custody Seal No.: 1080835	Custody Seal Intact: Yes	Cooler Temperature(s) °C and Other Remarks:	

Eurofins TestAmerica Houston

Loc: 600
197852Environment Testing
TestAmerica

Sample Receipt Checklist

19 DEC 20 12:57

JOB NUMBER: _____ DATE/TIME RECEIVED: _____
UNPACKED BY: JP CLIENT: Arcadis
CARRIER/DRIVER: Fedex
Custody Seal Present: ☒ YES ☐ NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3007	Y / N	Y / N	1.7	676	+0.1	1.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are >pH 12: ☐ YES ☐ NO Acid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____pH paper Lot # _____ VOA headspace acceptable (5-6mm): ☒ YES ☐ NO ☐ NADid samples meet the laboratory's standard conditions of sample acceptability upon receipt? ☒ YES ☐ NO

COMMENTS:

JP 12/20/19

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-197852-1

Login Number: 197852

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

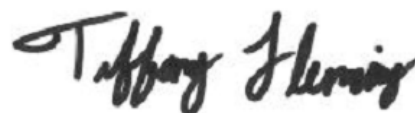
Laboratory Job ID: 600-197855-1

Client Project/Site: Chevron - Buckeye Compressor Station

For:

ARCADIS U.S., Inc.
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Scott Foord



Authorized for release by:

1/20/2020 2:33:00 PM

Tiffany Fleming, Project Management Assistant I
(361)289-2673

tiffany.fleming@testamericainc.com

Designee for

Sachin Kudchadkar, Senior Project Manager
(713)690-4444

sachin.kudchadkar@testamericainc.com

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

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

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197855-1

Project/Site: Chevron - Buckeye Compressor Station

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

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

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197855-1

Project/Site: Chevron - Buckeye Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-197855-1	MW-17-W-191219	Water	12/19/19 11:45	12/20/19 12:57	
600-197855-2	MW-14-W-191219	Water	12/19/19 12:30	12/20/19 12:57	
600-197855-3	MW-4-W-191219	Water	12/19/19 13:40	12/20/19 12:57	
600-197855-4	MW4-WD-191219	Water	12/19/19 13:40	12/20/19 12:57	
600-197855-5	Trip Blank	Water	12/19/19 00:00	12/20/19 12:57	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Client Sample ID: MW-17-W-191219

Lab Sample ID: 600-197855-1

Date Collected: 12/19/19 11:45

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.0076	J	0.020	0.0042	mg/L			12/24/19 09:02	20
Toluene	0.0040	U	0.020	0.0040	mg/L			12/24/19 09:02	20
Xylenes, Total	0.016	J	0.040	0.0073	mg/L			12/24/19 09:02	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		50 - 134					12/24/19 09:02	20
Dibromofluoromethane	84		62 - 130					12/24/19 09:02	20
Toluene-d8 (Surr)	112		70 - 130					12/24/19 09:02	20
4-Bromofluorobenzene	128		67 - 139					12/24/19 09:02	20

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.9		0.25	0.044	mg/L			12/25/19 08:36	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134					12/25/19 08:36	250
Dibromofluoromethane	82		62 - 130					12/25/19 08:36	250
Toluene-d8 (Surr)	113		70 - 130					12/25/19 08:36	250
4-Bromofluorobenzene	130		67 - 139					12/25/19 08:36	250

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	23		2.5	1.2	mg/L			12/23/19 19:15	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		70 - 130					12/23/19 19:15	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.10	J	0.27	0.048	mg/L		12/26/19 12:53	01/18/20 00:57	1
C28-C36	0.16	U	0.27	0.16	mg/L		12/26/19 12:53	01/18/20 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		60 - 140				12/26/19 12:53	01/18/20 00:57	1

Client Sample ID: MW-14-W-191219

Lab Sample ID: 600-197855-2

Date Collected: 12/19/19 12:30

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010		0.0010	0.00018	mg/L			12/24/19 10:48	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 10:48	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 10:48	1
Xylenes, Total	0.00080	J	0.0020	0.00037	mg/L			12/24/19 10:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		50 - 134					12/24/19 10:48	1
Dibromofluoromethane	79		62 - 130					12/24/19 10:48	1
Toluene-d8 (Surr)	105		70 - 130					12/24/19 10:48	1
4-Bromofluorobenzene	119		67 - 139					12/24/19 10:48	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Client Sample ID: MW-14-W-191219

Lab Sample ID: 600-197855-2

Date Collected: 12/19/19 12:30

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.75		0.050	0.023	mg/L			12/23/19 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		70 - 130					12/23/19 16:02	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.46		0.27	0.049	mg/L		12/26/19 12:53	01/18/20 01:30	1
C28-C36	0.16	U	0.27	0.16	mg/L		12/26/19 12:53	01/18/20 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		60 - 140				12/26/19 12:53	01/18/20 01:30	1

Client Sample ID: MW-4-W-191219

Lab Sample ID: 600-197855-3

Date Collected: 12/19/19 13:40

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.044		0.020	0.0042	mg/L			12/24/19 09:54	20
Toluene	0.0040	U	0.020	0.0040	mg/L			12/24/19 09:54	20
Xylenes, Total	0.030	J	0.040	0.0073	mg/L			12/24/19 09:54	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		50 - 134					12/24/19 09:54	20
Dibromofluoromethane	78		62 - 130					12/24/19 09:54	20
Toluene-d8 (Surr)	107		70 - 130					12/24/19 09:54	20
4-Bromofluorobenzene	127		67 - 139					12/24/19 09:54	20

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11		0.50	0.088	mg/L			12/25/19 09:02	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134					12/25/19 09:02	500
Dibromofluoromethane	82		62 - 130					12/25/19 09:02	500
Toluene-d8 (Surr)	111		70 - 130					12/25/19 09:02	500
4-Bromofluorobenzene	131		67 - 139					12/25/19 09:02	500

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	28		2.5	1.2	mg/L			12/24/19 11:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		70 - 130					12/24/19 11:17	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.099	J	0.27	0.048	mg/L		12/26/19 12:53	01/18/20 02:03	1
C28-C36	0.16	U	0.27	0.16	mg/L		12/26/19 12:53	01/18/20 02:03	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Client Sample ID: MW-4-W-191219

Lab Sample ID: 600-197855-3

Date Collected: 12/19/19 13:40

Matrix: Water

Date Received: 12/20/19 12:57

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	68		60 - 140	12/26/19 12:53	01/18/20 02:03	1

Client Sample ID: MW4--WD-191219

Lab Sample ID: 600-197855-4

Date Collected: 12/19/19 13:40

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.044		0.020	0.0042	mg/L			12/24/19 10:21	20
Toluene	0.0040	U	0.020	0.0040	mg/L			12/24/19 10:21	20
Xylenes, Total	0.030	J	0.040	0.0073	mg/L			12/24/19 10:21	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134					12/24/19 10:21	20
Dibromofluoromethane	84		62 - 130					12/24/19 10:21	20
Toluene-d8 (Surr)	106		70 - 130					12/24/19 10:21	20
4-Bromofluorobenzene	125		67 - 139					12/24/19 10:21	20

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12		0.50	0.088	mg/L			12/25/19 09:28	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134					12/25/19 09:28	500
Dibromofluoromethane	83		62 - 130					12/25/19 09:28	500
Toluene-d8 (Surr)	111		70 - 130					12/25/19 09:28	500
4-Bromofluorobenzene	128		67 - 139					12/25/19 09:28	500

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	33		2.5	1.2	mg/L			12/24/19 11:41	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		70 - 130					12/24/19 11:41	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.19	J H	0.26	0.046	mg/L		01/10/20 06:51	01/10/20 10:30	1
C28-C36	0.15	U H	0.26	0.15	mg/L		01/10/20 06:51	01/10/20 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	137		60 - 140				01/10/20 06:51	01/10/20 10:30	1

Client Sample ID: Trip Blank

Lab Sample ID: 600-197855-5

Date Collected: 12/19/19 00:00

Matrix: Water

Date Received: 12/20/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 02:42	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 02:42	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 02:42	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Client Sample ID: Trip Blank

Lab Sample ID: 600-197855-5

Date Collected: 12/19/19 00:00

Matrix: Water

Date Received: 12/20/19 12:57

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		50 - 134		12/24/19 02:42	1
Dibromofluoromethane	86		62 - 130		12/24/19 02:42	1
Toluene-d8 (Surr)	110		70 - 130		12/24/19 02:42	1
4-Bromofluorobenzene	126		67 - 139		12/24/19 02:42	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-197855-1

Project/Site: Chevron - Buckeye Compressor Station

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (50-134)	DBFM (62-130)	TOL (70-130)	BFB (67-139)
600-197855-1	MW-17-W-191219	78	84	112	128
600-197855-1 - DL	MW-17-W-191219	80	82	113	130
600-197855-2	MW-14-W-191219	81	79	105	119
600-197855-3	MW-4-W-191219	79	78	107	127
600-197855-3 - DL	MW-4-W-191219	82	82	111	131
600-197855-4	MW4--WD-191219	80	84	106	125
600-197855-4 - DL	MW4--WD-191219	82	83	111	128
600-197855-5	Trip Blank	86	86	110	126
LCS 600-283882/3	Lab Control Sample	91	95	109	123
LCS 600-284012/3	Lab Control Sample	81	88	107	127
LCSD 600-283882/4	Lab Control Sample Dup	80	89	108	125
LCSD 600-284012/4	Lab Control Sample Dup	78	86	108	128
MB 600-283882/6	Method Blank	86	87	110	127
MB 600-284012/6	Method Blank	84	90	111	133
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
DBFM = Dibromofluoromethane					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorobenzene					

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (70-130)			
600-197855-1	MW-17-W-191219	90			
600-197855-2	MW-14-W-191219	89			
600-197855-3	MW-4-W-191219	86			
600-197855-4	MW4--WD-191219	86			
LCS 600-283789/5	Lab Control Sample	81			
LCS 600-283924/5	Lab Control Sample	91			
LCSD 600-283789/6	Lab Control Sample Dup	80			
LCSD 600-283924/6	Lab Control Sample Dup	90			
MB 600-283789/7	Method Blank	78			
MB 600-283924/7	Method Blank	87			
Surrogate Legend					
TFT = a,a,a-Trifluorotoluene					

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1 (60-140)			
600-197855-1	MW-17-W-191219	77			
600-197855-2	MW-14-W-191219	65			
600-197855-3	MW-4-W-191219	68			
600-197855-4	MW4--WD-191219	137			

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197855-1

Project/Site: Chevron - Buckeye Compressor Station

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
LCS 600-284084/2-A	Lab Control Sample	83
LCS 600-284935/2-A	Lab Control Sample	106
LCSD 600-284084/3-A	Lab Control Sample Dup	93
LCSD 600-284935/3-A	Lab Control Sample Dup	122
MB 600-284084/1-A	Method Blank	104
MB 600-284935/1-A	Method Blank	128

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-283882/6

Matrix: Water

Analysis Batch: 283882

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 02:17	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 02:17	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 02:17	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 02:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		50 - 134		12/24/19 02:17	1
Dibromofluoromethane	87		62 - 130		12/24/19 02:17	1
Toluene-d8 (Surr)	110		70 - 130		12/24/19 02:17	1
4-Bromofluorobenzene	127		67 - 139		12/24/19 02:17	1

Lab Sample ID: LCS 600-283882/3

Matrix: Water

Analysis Batch: 283882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.00935		mg/L		93	70 - 130
Ethylbenzene	0.0100	0.00962		mg/L		96	70 - 130
Toluene	0.0100	0.00990		mg/L		99	70 - 130
Xylenes, Total	0.0200	0.0189		mg/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		50 - 134
Dibromofluoromethane	95		62 - 130
Toluene-d8 (Surr)	109		70 - 130
4-Bromofluorobenzene	123		67 - 139

Lab Sample ID: LCSD 600-283882/4

Matrix: Water

Analysis Batch: 283882

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.00965		mg/L		97	70 - 130	3	20
Ethylbenzene	0.0100	0.00977		mg/L		98	70 - 130	2	20
Toluene	0.0100	0.0101		mg/L		101	70 - 130	2	20
Xylenes, Total	0.0200	0.0192		mg/L		96	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		50 - 134
Dibromofluoromethane	89		62 - 130
Toluene-d8 (Surr)	108		70 - 130
4-Bromofluorobenzene	125		67 - 139

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

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

Lab Sample ID: MB 600-284012/6

Matrix: Water

Analysis Batch: 284012

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 04:20	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 04:20	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 04:20	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 04:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		50 - 134		12/25/19 04:20	1
Dibromofluoromethane	90		62 - 130		12/25/19 04:20	1
Toluene-d8 (Surr)	111		70 - 130		12/25/19 04:20	1
4-Bromofluorobenzene	133		67 - 139		12/25/19 04:20	1

Lab Sample ID: LCS 600-284012/3

Matrix: Water

Analysis Batch: 284012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.0110		mg/L		110	70 - 130
Ethylbenzene	0.0100	0.0113		mg/L		113	70 - 130
Toluene	0.0100	0.0115		mg/L		115	70 - 130
Xylenes, Total	0.0200	0.0222		mg/L		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		50 - 134
Dibromofluoromethane	88		62 - 130
Toluene-d8 (Surr)	107		70 - 130
4-Bromofluorobenzene	127		67 - 139

Lab Sample ID: LCSD 600-284012/4

Matrix: Water

Analysis Batch: 284012

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.0103		mg/L		103	70 - 130	7	20
Ethylbenzene	0.0100	0.0107		mg/L		107	70 - 130	5	20
Toluene	0.0100	0.0110		mg/L		110	70 - 130	5	20
Xylenes, Total	0.0200	0.0211		mg/L		106	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		50 - 134
Dibromofluoromethane	86		62 - 130
Toluene-d8 (Surr)	108		70 - 130
4-Bromofluorobenzene	128		67 - 139

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-283789/7

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/23/19 10:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		70 - 130					12/23/19 10:44	1

Lab Sample ID: LCS 600-283789/5

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	0.252	0.260		mg/L	-	103	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	81		70 - 130						

Lab Sample ID: LCSD 600-283789/6

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.252	0.287		mg/L	-	114	70 - 130	10	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	80		70 - 130						

Lab Sample ID: MB 600-283924/7

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/24/19 10:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		70 - 130					12/24/19 10:29	1

Lab Sample ID: LCS 600-283924/5

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	0.252	0.309		mg/L	-	123	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	91		70 - 130						

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 600-283924/6

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.252	0.291		mg/L		116	70 - 130	6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	90		70 - 130						

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-284084/1-A

Matrix: Water

Analysis Batch: 285493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 284084

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.045	U	0.25	0.045	mg/L		12/26/19 12:53	01/17/20 23:19	1
C28-C36	0.15	U	0.25	0.15	mg/L		12/26/19 12:53	01/17/20 23:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	104		60 - 140	12/26/19 12:53	01/17/20 23:19	1			

Lab Sample ID: LCS 600-284084/2-A

Matrix: Water

Analysis Batch: 285493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 284084

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			0.501	0.463		mg/L	-	92	70 - 130		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	83		60 - 140								

Lab Sample ID: LCSD 600-284084/3-A

Matrix: Water

Analysis Batch: 285493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 284084

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	0.501	0.489		mg/L		98	70 - 130	5	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	93		60 - 140						

Lab Sample ID: MB 600-284935/1-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 284933

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.045	U	0.25	0.045	mg/L		01/10/20 06:51	01/10/20 08:09	1
C28-C36	0.15	U	0.25	0.15	mg/L		01/10/20 06:51	01/10/20 08:09	1

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 600-284935/1-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 284935

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
o-Terphenyl	128		60 - 140	01/10/20 06:51	01/10/20 08:09	1			

Lab Sample ID: LCS 600-284935/2-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 284935

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			0.501	0.477		mg/L	-	95	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
o-Terphenyl	106		60 - 140								

Lab Sample ID: LCSD 600-284935/3-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 284935

			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Diesel Range Organics [C10-C28]			0.501	0.454		mg/L	-	91	70 - 130	5	30	
Surrogate	LCSD	LCSD										
	%Recovery	Qualifier	Limits									
o-Terphenyl	122		60 - 140									

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.

Job ID: 600-197855-1

Project/Site: Chevron - Buckeye Compressor Station

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units
Benzene	0.0010	0.00018	mg/L
Ethylbenzene	0.0010	0.00021	mg/L
Toluene	0.0010	0.00020	mg/L
Xylenes, Total	0.0020	0.00037	mg/L

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	0.050	0.023	mg/L

Method: 8015B - Diesel Range Organics (DRO) (GC)

Prep: 3510C

Analyte	MQL	MDL	Units
C28-C36	0.25	0.15	mg/L
Diesel Range Organics [C10-C28]	0.25	0.045	mg/L

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

GC/MS VOA

Analysis Batch: 283882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197855-1	MW-17-W-191219	Total/NA	Water	8260B	
600-197855-2	MW-14-W-191219	Total/NA	Water	8260B	
600-197855-3	MW-4-W-191219	Total/NA	Water	8260B	
600-197855-4	MW4--WD-191219	Total/NA	Water	8260B	
600-197855-5	Trip Blank	Total/NA	Water	8260B	
MB 600-283882/6	Method Blank	Total/NA	Water	8260B	
LCS 600-283882/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-283882/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 284012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197855-1 - DL	MW-17-W-191219	Total/NA	Water	8260B	
600-197855-3 - DL	MW-4-W-191219	Total/NA	Water	8260B	
600-197855-4 - DL	MW4--WD-191219	Total/NA	Water	8260B	
MB 600-284012/6	Method Blank	Total/NA	Water	8260B	
LCS 600-284012/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-284012/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 283789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197855-1	MW-17-W-191219	Total/NA	Water	8015B	
600-197855-2	MW-14-W-191219	Total/NA	Water	8015B	
MB 600-283789/7	Method Blank	Total/NA	Water	8015B	
LCS 600-283789/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 600-283789/6	Lab Control Sample Dup	Total/NA	Water	8015B	

Analysis Batch: 283924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197855-3	MW-4-W-191219	Total/NA	Water	8015B	
600-197855-4	MW4--WD-191219	Total/NA	Water	8015B	
MB 600-283924/7	Method Blank	Total/NA	Water	8015B	
LCS 600-283924/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 600-283924/6	Lab Control Sample Dup	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 284084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197855-1	MW-17-W-191219	Total/NA	Water	3510C	
600-197855-2	MW-14-W-191219	Total/NA	Water	3510C	
600-197855-3	MW-4-W-191219	Total/NA	Water	3510C	
MB 600-284084/1-A	Method Blank	Total/NA	Water	3510C	
LCS 600-284084/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 600-284084/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 284933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197855-4	MW4--WD-191219	Total/NA	Water	8015B	284935
MB 600-284935/1-A	Method Blank	Total/NA	Water	8015B	284935
LCS 600-284935/2-A	Lab Control Sample	Total/NA	Water	8015B	284935

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

GC Semi VOA (Continued)

Analysis Batch: 284933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 600-284935/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	284935

Prep Batch: 284935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197855-4	MW4--WD-191219	Total/NA	Water	3510C	
MB 600-284935/1-A	Method Blank	Total/NA	Water	3510C	
LCS 600-284935/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 600-284935/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 285493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197855-1	MW-17-W-191219	Total/NA	Water	8015B	284084
600-197855-2	MW-14-W-191219	Total/NA	Water	8015B	284084
600-197855-3	MW-4-W-191219	Total/NA	Water	8015B	284084
MB 600-284084/1-A	Method Blank	Total/NA	Water	8015B	284084
LCS 600-284084/2-A	Lab Control Sample	Total/NA	Water	8015B	284084
LCSD 600-284084/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	284084

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Client Sample ID: MW-17-W-191219

Lab Sample ID: 600-197855-1

Date Collected: 12/19/19 11:45

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	283882	12/24/19 09:02	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	250	284012	12/25/19 08:36	RP	TAL HOU
Total/NA	Analysis	8015B		50	283789	12/23/19 19:15	WS1	TAL HOU
Total/NA	Prep	3510C			284084	12/26/19 12:53	KP	TAL HOU
Total/NA	Analysis	8015B		1	285493	01/18/20 00:57	RJV	TAL HOU

Client Sample ID: MW-14-W-191219

Lab Sample ID: 600-197855-2

Date Collected: 12/19/19 12:30

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283882	12/24/19 10:48	YX1	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 16:02	WS1	TAL HOU
Total/NA	Prep	3510C			284084	12/26/19 12:53	KP	TAL HOU
Total/NA	Analysis	8015B		1	285493	01/18/20 01:30	RJV	TAL HOU

Client Sample ID: MW-4-W-191219

Lab Sample ID: 600-197855-3

Date Collected: 12/19/19 13:40

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	283882	12/24/19 09:54	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	500	284012	12/25/19 09:02	RP	TAL HOU
Total/NA	Analysis	8015B		50	283924	12/24/19 11:17	WS1	TAL HOU
Total/NA	Prep	3510C			284084	12/26/19 12:53	KP	TAL HOU
Total/NA	Analysis	8015B		1	285493	01/18/20 02:03	RJV	TAL HOU

Client Sample ID: MW4--WD-191219

Lab Sample ID: 600-197855-4

Date Collected: 12/19/19 13:40

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	283882	12/24/19 10:21	YX1	TAL HOU
Total/NA	Analysis	8260B	DL	500	284012	12/25/19 09:28	RP	TAL HOU
Total/NA	Analysis	8015B		50	283924	12/24/19 11:41	WS1	TAL HOU
Total/NA	Prep	3510C			284935	01/10/20 06:51	RLK	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 10:30	RJV	TAL HOU

Client Sample ID: Trip Blank

Lab Sample ID: 600-197855-5

Date Collected: 12/19/19 00:00

Matrix: Water

Date Received: 12/20/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283882	12/24/19 02:42	YX1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197855-1

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197855-1

Project/Site: Chevron - Buckeye Compressor Station

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Water	Gasoline Range Organics [C6 - C10]
8015B	3510C	Water	C28-C36
8015B	3510C	Water	Diesel Range Organics [C10-C28]

Ver: 01/16/2019

Eurofins TestAmerica Houston

Loc: 600
197855Environment Testing
TestAmerica

Sample Receipt Checklist

19 DEC 20 12:57

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: _____

UNPACKED BY: _____

CARRIER/DRIVER: _____

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3018	Y / N	Y / N	0.9	676	+0.1	1.0
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☒ YES ☐ NO ☐ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

COMMENTS:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-197855-1

Login Number: 197855

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-197856-1

Client Project/Site: Chevron - Buckeye Compressor Station

For:

ARCADIS U.S., Inc.
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Scott Foord



Authorized for release by:
1/14/2020 5:43:57 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197856-1

Project/Site: Chevron - Buckeye Compressor Station

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

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

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197856-1

Project/Site: Chevron - Buckeye Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-197856-1	JW-20-W-191218	Water	12/18/19 09:15	12/19/19 12:40	
600-197856-2	TW-11-W-191218	Water	12/18/19 10:40	12/19/19 12:40	
600-197856-3	MW-12-W-191218	Water	12/18/19 11:25	12/19/19 12:40	
600-197856-4	MW-12-WD-191218	Water	12/18/19 11:25	12/19/19 12:40	
600-197856-5	MW-25-W-191218	Water	12/18/19 12:50	12/19/19 12:40	
600-197856-6	Trip Blank	Water	12/18/19 00:00	12/19/19 12:40	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Client Sample ID: JW-20-W-191218

Lab Sample ID: 600-197856-1

Date Collected: 12/18/19 09:15

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L	-		12/24/19 06:56	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L	-		12/24/19 06:56	1
Toluene	0.00020	U	0.0010	0.00020	mg/L	-		12/24/19 06:56	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L	-		12/24/19 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134		12/24/19 06:56	1
Dibromofluoromethane	85		62 - 130		12/24/19 06:56	1
Toluene-d8 (Surr)	112		70 - 130		12/24/19 06:56	1
4-Bromofluorobenzene	121		67 - 139		12/24/19 06:56	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/24/19 10:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		70 - 130		12/24/19 10:53	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.047	U	0.26	0.047	mg/L	-	12/24/19 11:42	01/09/20 18:06	1
C28-C36	0.16	U	0.26	0.16	mg/L	-	12/24/19 11:42	01/09/20 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		60 - 140	12/24/19 11:42	01/09/20 18:06	1

Client Sample ID: TW-11-W-191218

Lab Sample ID: 600-197856-2

Date Collected: 12/18/19 10:40

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L	-		12/24/19 07:21	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L	-		12/24/19 07:21	1
Toluene	0.00020	U	0.0010	0.00020	mg/L	-		12/24/19 07:21	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L	-		12/24/19 07:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134		12/24/19 07:21	1
Dibromofluoromethane	84		62 - 130		12/24/19 07:21	1
Toluene-d8 (Surr)	115		70 - 130		12/24/19 07:21	1
4-Bromofluorobenzene	121		67 - 139		12/24/19 07:21	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/23/19 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		70 - 130		12/23/19 17:38	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Client Sample ID: TW-11-W-191218

Lab Sample ID: 600-197856-2

Date Collected: 12/18/19 10:40

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.048	U	0.27	0.048	mg/L		12/24/19 11:42	01/09/20 18:39	1
C28-C36	0.16	U	0.27	0.16	mg/L		12/24/19 11:42	01/09/20 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		60 - 140				12/24/19 11:42	01/09/20 18:39	1

Client Sample ID: MW-12-W-191218

Lab Sample ID: 600-197856-3

Date Collected: 12/18/19 11:25

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 07:46	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 07:46	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 07:46	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 07:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134					12/24/19 07:46	1
Dibromofluoromethane	84		62 - 130					12/24/19 07:46	1
Toluene-d8 (Surr)	114		70 - 130					12/24/19 07:46	1
4-Bromofluorobenzene	124		67 - 139					12/24/19 07:46	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	89		70 - 130					12/23/19 18:02	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.047	U	0.26	0.047	mg/L		12/24/19 11:42	01/09/20 19:12	1
C28-C36	0.16	U	0.26	0.16	mg/L		12/24/19 11:42	01/09/20 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		60 - 140				12/24/19 11:42	01/09/20 19:12	1

Client Sample ID: MW-12-WD-191218

Lab Sample ID: 600-197856-4

Date Collected: 12/18/19 11:25

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 08:11	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 08:11	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 08:11	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 08:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134					12/24/19 08:11	1
Dibromofluoromethane	85		62 - 130					12/24/19 08:11	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Client Sample ID: MW-12-WD-191218

Lab Sample ID: 600-197856-4

Date Collected: 12/18/19 11:25

Matrix: Water

Date Received: 12/19/19 12:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		70 - 130		12/24/19 08:11	1
4-Bromofluorobenzene	125		67 - 139		12/24/19 08:11	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		70 - 130		12/23/19 18:27	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.047	U	0.26	0.047	mg/L		12/24/19 11:42	01/09/20 20:17	1
C28-C36	0.16	U	0.26	0.16	mg/L		12/24/19 11:42	01/09/20 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140	12/24/19 11:42	01/09/20 20:17	1

Client Sample ID: MW-25-W-191218

Lab Sample ID: 600-197856-5

Date Collected: 12/18/19 12:50

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 08:37	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 08:37	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 08:37	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134		12/24/19 08:37	1
Dibromofluoromethane	86		62 - 130		12/24/19 08:37	1
Toluene-d8 (Surr)	114		70 - 130		12/24/19 08:37	1
4-Bromofluorobenzene	124		67 - 139		12/24/19 08:37	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/23/19 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		70 - 130		12/23/19 18:51	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.047	U	0.26	0.047	mg/L		12/24/19 11:42	01/09/20 20:50	1
C28-C36	0.16	U	0.26	0.16	mg/L		12/24/19 11:42	01/09/20 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		60 - 140	12/24/19 11:42	01/09/20 20:50	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Client Sample ID: Trip Blank

Lab Sample ID: 600-197856-6

Date Collected: 12/18/19 00:00

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 06:30	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 06:30	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 06:30	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 06:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134		12/24/19 06:30	1
Dibromofluoromethane	91		62 - 130		12/24/19 06:30	1
Toluene-d8 (Surr)	113		70 - 130		12/24/19 06:30	1
4-Bromofluorobenzene	125		67 - 139		12/24/19 06:30	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (50-134)	DBFM (62-130)	TOL (70-130)	BFB (67-139)
600-197856-1	JW-20-W-191218	82	85	112	121
600-197856-2	TW-11-W-191218	80	84	115	121
600-197856-3	MW-12-W-191218	80	84	114	124
600-197856-4	MW-12-WD-191218	82	85	113	125
600-197856-5	MW-25-W-191218	82	86	114	124
600-197856-6	Trip Blank	82	91	113	125
LCS 600-283882/3	Lab Control Sample	91	95	109	123
LCSD 600-283882/4	Lab Control Sample Dup	80	89	108	125
MB 600-283882/6	Method Blank	86	87	110	127

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (70-130)			
600-197856-1	JW-20-W-191218	90			
600-197856-2	TW-11-W-191218	89			
600-197856-3	MW-12-W-191218	89			
600-197856-4	MW-12-WD-191218	88			
600-197856-5	MW-25-W-191218	87			
LCS 600-283789/5	Lab Control Sample	81			
LCS 600-283924/5	Lab Control Sample	91			
LCSD 600-283789/6	Lab Control Sample Dup	80			
LCSD 600-283924/6	Lab Control Sample Dup	90			
MB 600-283789/7	Method Blank	78			
MB 600-283924/7	Method Blank	87			

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1 (60-140)			
600-197856-1	JW-20-W-191218	76			
600-197856-2	TW-11-W-191218	62			
600-197856-3	MW-12-W-191218	69			
600-197856-4	MW-12-WD-191218	73			
600-197856-5	MW-25-W-191218	75			
LCS 600-283979/2-A	Lab Control Sample	75			
LCSD 600-283979/3-A	Lab Control Sample Dup	80			
MB 600-283979/1-A	Method Blank	74			

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Surrogate Legend

OTPH = o-Terphenyl

1

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-283882/6

Matrix: Water

Analysis Batch: 283882

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/24/19 02:17	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/24/19 02:17	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/24/19 02:17	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/24/19 02:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		50 - 134		12/24/19 02:17	1
Dibromofluoromethane	87		62 - 130		12/24/19 02:17	1
Toluene-d8 (Surr)	110		70 - 130		12/24/19 02:17	1
4-Bromofluorobenzene	127		67 - 139		12/24/19 02:17	1

Lab Sample ID: LCS 600-283882/3

Matrix: Water

Analysis Batch: 283882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.00935		mg/L		93	70 - 130
Ethylbenzene	0.0100	0.00962		mg/L		96	70 - 130
Toluene	0.0100	0.00990		mg/L		99	70 - 130
Xylenes, Total	0.0200	0.0189		mg/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		50 - 134
Dibromofluoromethane	95		62 - 130
Toluene-d8 (Surr)	109		70 - 130
4-Bromofluorobenzene	123		67 - 139

Lab Sample ID: LCSD 600-283882/4

Matrix: Water

Analysis Batch: 283882

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.00965		mg/L		97	70 - 130	3	20
Ethylbenzene	0.0100	0.00977		mg/L		98	70 - 130	2	20
Toluene	0.0100	0.0101		mg/L		101	70 - 130	2	20
Xylenes, Total	0.0200	0.0192		mg/L		96	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		50 - 134
Dibromofluoromethane	89		62 - 130
Toluene-d8 (Surr)	108		70 - 130
4-Bromofluorobenzene	125		67 - 139

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-283789/7

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/23/19 10:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		70 - 130					12/23/19 10:44	1

Lab Sample ID: LCS 600-283789/5

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	0.252	0.260		mg/L	-	103	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	81		70 - 130						

Lab Sample ID: LCSD 600-283789/6

Matrix: Water

Analysis Batch: 283789

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.252	0.287		mg/L	-	114	70 - 130	10	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	80		70 - 130						

Lab Sample ID: MB 600-283924/7

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/24/19 10:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		70 - 130					12/24/19 10:29	1

Lab Sample ID: LCS 600-283924/5

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	0.252	0.309		mg/L	-	123	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	91		70 - 130						

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 600-283924/6

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.252	0.291		mg/L		116	70 - 130	6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	90		70 - 130						

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-283979/1-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 283979

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.045	U	0.25	0.045	mg/L		12/24/19 11:42	01/09/20 14:17	1
C28-C36	0.15	U	0.25	0.15	mg/L		12/24/19 11:42	01/09/20 14:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	74		60 - 140	12/24/19 11:42	01/09/20 14:17	1			

Lab Sample ID: LCS 600-283979/2-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 283979

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			1.00	0.974		mg/L	-	97	70 - 130		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	75		60 - 140								

Lab Sample ID: LCSD 600-283979/3-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 283979

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1.00	0.907		mg/L		91	70 - 130	7	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	80		60 - 140						

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.

Job ID: 600-197856-1

Project/Site: Chevron - Buckeye Compressor Station

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units
Benzene	0.0010	0.00018	mg/L
Ethylbenzene	0.0010	0.00021	mg/L
Toluene	0.0010	0.00020	mg/L
Xylenes, Total	0.0020	0.00037	mg/L

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	0.050	0.023	mg/L

Method: 8015B - Diesel Range Organics (DRO) (GC)

Prep: 3510C

Analyte	MQL	MDL	Units
C28-C36	0.25	0.15	mg/L
Diesel Range Organics [C10-C28]	0.25	0.045	mg/L

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

GC/MS VOA

Analysis Batch: 283882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197856-1	JW-20-W-191218	Total/NA	Water	8260B	
600-197856-2	TW-11-W-191218	Total/NA	Water	8260B	
600-197856-3	MW-12-W-191218	Total/NA	Water	8260B	
600-197856-4	MW-12-WD-191218	Total/NA	Water	8260B	
600-197856-5	MW-25-W-191218	Total/NA	Water	8260B	
600-197856-6	Trip Blank	Total/NA	Water	8260B	
MB 600-283882/6	Method Blank	Total/NA	Water	8260B	
LCS 600-283882/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-283882/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 283789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197856-2	TW-11-W-191218	Total/NA	Water	8015B	
600-197856-3	MW-12-W-191218	Total/NA	Water	8015B	
600-197856-4	MW-12-WD-191218	Total/NA	Water	8015B	
600-197856-5	MW-25-W-191218	Total/NA	Water	8015B	
MB 600-283789/7	Method Blank	Total/NA	Water	8015B	
LCS 600-283789/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 600-283789/6	Lab Control Sample Dup	Total/NA	Water	8015B	

Analysis Batch: 283924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197856-1	JW-20-W-191218	Total/NA	Water	8015B	
MB 600-283924/7	Method Blank	Total/NA	Water	8015B	
LCS 600-283924/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 600-283924/6	Lab Control Sample Dup	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 283979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197856-1	JW-20-W-191218	Total/NA	Water	3510C	
600-197856-2	TW-11-W-191218	Total/NA	Water	3510C	
600-197856-3	MW-12-W-191218	Total/NA	Water	3510C	
600-197856-4	MW-12-WD-191218	Total/NA	Water	3510C	
600-197856-5	MW-25-W-191218	Total/NA	Water	3510C	
MB 600-283979/1-A	Method Blank	Total/NA	Water	3510C	
LCS 600-283979/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 600-283979/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 284933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197856-1	JW-20-W-191218	Total/NA	Water	8015B	283979
600-197856-2	TW-11-W-191218	Total/NA	Water	8015B	283979
600-197856-3	MW-12-W-191218	Total/NA	Water	8015B	283979
600-197856-4	MW-12-WD-191218	Total/NA	Water	8015B	283979
600-197856-5	MW-25-W-191218	Total/NA	Water	8015B	283979
MB 600-283979/1-A	Method Blank	Total/NA	Water	8015B	283979
LCS 600-283979/2-A	Lab Control Sample	Total/NA	Water	8015B	283979
LCSD 600-283979/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	283979

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Client Sample ID: JW-20-W-191218

Lab Sample ID: 600-197856-1

Date Collected: 12/18/19 09:15

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283882	12/24/19 06:56	YX1	TAL HOU
Total/NA	Analysis	8015B		1	283924	12/24/19 10:53	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 18:06	RJV	TAL HOU

Client Sample ID: TW-11-W-191218

Lab Sample ID: 600-197856-2

Date Collected: 12/18/19 10:40

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283882	12/24/19 07:21	YX1	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 17:38	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 18:39	RJV	TAL HOU

Client Sample ID: MW-12-W-191218

Lab Sample ID: 600-197856-3

Date Collected: 12/18/19 11:25

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283882	12/24/19 07:46	YX1	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 18:02	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 19:12	RJV	TAL HOU

Client Sample ID: MW-12-WD-191218

Lab Sample ID: 600-197856-4

Date Collected: 12/18/19 11:25

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283882	12/24/19 08:11	YX1	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 18:27	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 20:17	RJV	TAL HOU

Client Sample ID: MW-25-W-191218

Lab Sample ID: 600-197856-5

Date Collected: 12/18/19 12:50

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283882	12/24/19 08:37	YX1	TAL HOU
Total/NA	Analysis	8015B		1	283789	12/23/19 18:51	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 20:50	RJV	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197856-1

Client Sample ID: Trip Blank
Date Collected: 12/18/19 00:00
Date Received: 12/19/19 12:40

Lab Sample ID: 600-197856-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	283882	12/24/19 06:30	YX1	TAL HOU

Laboratory References:
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197856-1

Project/Site: Chevron - Buckeye Compressor Station

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Water	Gasoline Range Organics [C6 - C10]
8015B	3510C	Water	C28-C36
8015B	3510C	Water	Diesel Range Organics [C10-C28]

Eurofins TestAmerica Houston

Loc: 600

197856

Environment Testing
TestAmerica

19 DEC 19 12:41

Sample Receipt Checklist

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: _____

UNPACKED BY: _____

CARRIER/DRIVER: _____

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
Red	Y / N	Y / N	1.3	676	+0.1	1.4
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:

☒ NO☐ YESBase samples are > pH 12: ☐ YES ☐ NOAcid preserved are < pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☒ YES ☐ NO ☐ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES☐ NO

COMMENTS:

Chain of Custody Record

Client Information Client Contact: Douglas Jordan Company: ARCADIS U.S. Inc. Address: 10205 Westheimer Rd Suite 800 City: Houston State, Zip: TX, 77042 Phone: 713-953-4739(Tel) Email: douglas.jordan@arcadis.com Project Name: Chevron - Buckeye Compressor Station Site:		Lab PM: Kuchadkar, Sachin G E-Mail: sachin.kuchadkar@testamericainc.com Phone: 806-831-9801 Due Date Requested:		Carrier Tracking No(s): COC No: 600-72884-20028.1 Page: 1 of 1 Job #:	
TAT Requested (days): Standard		Analysis Requested Perform MS/MSD (Yes or No) ☒ Field Filled Sample (Yes or No) ☒ 8015B_GRO - (C6-C10) - 2 X 40 ml Vials/HCl: North Canton ☒ 8015B_DRO - DRO C10-C20) (C28-C36) - 2 X 1L Amber - North Canton ☒ 8260B_LL - BTEX Only ☒ 2540C_Calcd, TDS ☒ 300_ORGFM-Chloride ☒			
Sample Identification TW-20-W-191218 TW-11-W-191218 MW-12-W-191218 MW-12-W-191218 MW-25-W-191218		Sample Date 12-18 12-18 12-18 12-18 12-18		Sample Time 0915 1040 1125 1125 1250	
Sample Type (C=Comp, G=grab) G G G G G		Preservation Code: Water Water Water Water Water		Matrix (Water, Solid, Other) Water Water Water Water Water	
Total Number of Containers 7 7 7 7 7		Special Instructions/Note: CH 12-18-18			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements					
Empty Kit Relinquished by: Relinquished by: Chas Holder Date/Time: 12-18-18 / 1700 Relinquished by: Date/Time: Relinquished by: Date/Time:					
Custody Seal No.: 1080830 Custody Seals Intact: ☒ Yes ☐ No Cooler Temperature(s) °C and Other Remarks:					

Eurofins TestAmerica Houston

Loc: 600
197856Environment Testing
TestAmerica

19 DEC 19 12:41

Sample Receipt Checklist

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: _____

UNPACKED BY: _____

CARRIER/DRIVER: _____

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: _____

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
9132	X / N	X / N	1.3	678	-0.3	1.0
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:

☒ NO☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☒ YES ☐ NO ☐ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

COMMENTS:

JR 12/19/19

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-197856-1

Login Number: 197856

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

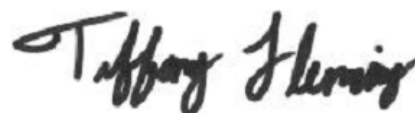
Laboratory Job ID: 600-197921-1

Client Project/Site: Chevron - Buckeye Compressor Station

For:

ARCADIS U.S., Inc.
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Scott Foord



Authorized for release by:

1/20/2020 2:25:04 PM

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

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

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197921-1

Project/Site: Chevron - Buckeye Compressor Station

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

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

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197921-1

Project/Site: Chevron - Buckeye Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-197921-1	MW-7-W-191220	Water	12/20/19 08:20	12/21/19 10:45	
600-197921-2	MW-6-W-191220	Water	12/20/19 09:15	12/21/19 10:45	
600-197921-3	MW-2-W-191220	Water	12/20/19 09:55	12/21/19 10:45	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197921-1

Client Sample ID: MW-7-W-191220

Lab Sample ID: 600-197921-1

Date Collected: 12/20/19 08:20

Matrix: Water

Date Received: 12/21/19 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 05:32	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 05:32	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 05:32	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		50 - 134		12/25/19 05:32	1
Dibromofluoromethane	118		62 - 130		12/25/19 05:32	1
Toluene-d8 (Surr)	93		70 - 130		12/25/19 05:32	1
4-Bromofluorobenzene	80		67 - 139		12/25/19 05:32	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/24/19 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		70 - 130		12/24/19 12:06	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.11	J	0.27	0.048	mg/L		12/26/19 12:53	01/18/20 02:36	1
C28-C36	0.16	U	0.27	0.16	mg/L		12/26/19 12:53	01/18/20 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	131		60 - 140	12/26/19 12:53	01/18/20 02:36	1

Client Sample ID: MW-6-W-191220

Lab Sample ID: 600-197921-2

Date Collected: 12/20/19 09:15

Matrix: Water

Date Received: 12/21/19 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.013		0.0010	0.00018	mg/L			12/25/19 06:01	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 06:01	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 06:01	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134		12/25/19 06:01	1
Dibromofluoromethane	113		62 - 130		12/25/19 06:01	1
Toluene-d8 (Surr)	88		70 - 130		12/25/19 06:01	1
4-Bromofluorobenzene	73		67 - 139		12/25/19 06:01	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.14		0.050	0.023	mg/L			12/24/19 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		70 - 130		12/24/19 12:30	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197921-1

Client Sample ID: MW-6-W-191220

Lab Sample ID: 600-197921-2

Date Collected: 12/20/19 09:15

Matrix: Water

Date Received: 12/21/19 10:45

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.11	J	0.27	0.048	mg/L		12/26/19 12:53	01/10/20 03:22	1
C28-C36	0.24	J	0.27	0.16	mg/L		12/26/19 12:53	01/10/20 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	87		60 - 140				12/26/19 12:53	01/10/20 03:22	1

Client Sample ID: MW-2-W-191220

Lab Sample ID: 600-197921-3

Date Collected: 12/20/19 09:55

Matrix: Water

Date Received: 12/21/19 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 06:28	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 06:28	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 06:28	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 06:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		50 - 134					12/25/19 06:28	1
Dibromofluoromethane	126		62 - 130					12/25/19 06:28	1
Toluene-d8 (Surr)	101		70 - 130					12/25/19 06:28	1
4-Bromofluorobenzene	88		67 - 139					12/25/19 06:28	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.060		0.050	0.023	mg/L			12/24/19 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		70 - 130					12/24/19 15:24	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.10	J	0.27	0.048	mg/L		12/26/19 12:53	01/10/20 03:55	1
C28-C36	0.21	J	0.27	0.16	mg/L		12/26/19 12:53	01/10/20 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	94		60 - 140				12/26/19 12:53	01/10/20 03:55	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-197921-1

Project/Site: Chevron - Buckeye Compressor Station

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197921-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (50-134)	DBFM (62-130)	TOL (70-130)	BFB (67-139)
600-197921-1	MW-7-W-191220	84	118	93	80
600-197921-2	MW-6-W-191220	80	113	88	73
600-197921-3	MW-2-W-191220	88	126	101	88
LCS 600-284007/4	Lab Control Sample	92	114	98	85
LCSD 600-284007/5	Lab Control Sample Dup	89	117	102	86
MB 600-284007/7	Method Blank	82	110	84	76
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
DBFM = Dibromofluoromethane					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorobenzene					

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (70-130)			
600-197921-1	MW-7-W-191220	85			
600-197921-2	MW-6-W-191220	88			
600-197921-3	MW-2-W-191220	84			
LCS 600-283924/5	Lab Control Sample	91			
LCSD 600-283924/6	Lab Control Sample Dup	90			
MB 600-283924/7	Method Blank	87			
Surrogate Legend					
TFT = a,a,a-Trifluorotoluene					

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1 (60-140)			
600-197921-1	MW-7-W-191220	131			
600-197921-2	MW-6-W-191220	87			
600-197921-3	MW-2-W-191220	94			
LCS 600-284084/2-A	Lab Control Sample	83			
LCSD 600-284084/3-A	Lab Control Sample Dup	93			
MB 600-284084/1-A	Method Blank	104			
Surrogate Legend					
OTPH = o-Terphenyl					

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197921-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-284007/7

Matrix: Water

Analysis Batch: 284007

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 03:40	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 03:40	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 03:40	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 03:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134		12/25/19 03:40	1
Dibromofluoromethane	110		62 - 130		12/25/19 03:40	1
Toluene-d8 (Surr)	84		70 - 130		12/25/19 03:40	1
4-Bromofluorobenzene	76		67 - 139		12/25/19 03:40	1

Lab Sample ID: LCS 600-284007/4

Matrix: Water

Analysis Batch: 284007

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.00927		mg/L		93	70 - 130
Ethylbenzene	0.0100	0.00972		mg/L		97	70 - 130
Toluene	0.0100	0.0107		mg/L		107	70 - 130
Xylenes, Total	0.0200	0.0186		mg/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		50 - 134
Dibromofluoromethane	114		62 - 130
Toluene-d8 (Surr)	98		70 - 130
4-Bromofluorobenzene	85		67 - 139

Lab Sample ID: LCSD 600-284007/5

Matrix: Water

Analysis Batch: 284007

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.00932		mg/L		93	70 - 130	0	20
Ethylbenzene	0.0100	0.0102		mg/L		102	70 - 130	4	20
Toluene	0.0100	0.0110		mg/L		110	70 - 130	2	20
Xylenes, Total	0.0200	0.0192		mg/L		96	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		50 - 134
Dibromofluoromethane	117		62 - 130
Toluene-d8 (Surr)	102		70 - 130
4-Bromofluorobenzene	86		67 - 139

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197921-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-283924/7

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/24/19 10:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		70 - 130					12/24/19 10:29	1

Lab Sample ID: LCS 600-283924/5

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	0.252	0.309		mg/L	-	123	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	91		70 - 130						

Lab Sample ID: LCSD 600-283924/6

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.252	0.291		mg/L	-	116	70 - 130	6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	90		70 - 130						

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-284084/1-A

Matrix: Water

Analysis Batch: 285493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 284084

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.045	U	0.25	0.045	mg/L	-	12/26/19 12:53	01/17/20 23:19	1
C28-C36	0.15	U	0.25	0.15	mg/L	-	12/26/19 12:53	01/17/20 23:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	104		60 - 140				12/26/19 12:53	01/17/20 23:19	1

Lab Sample ID: LCS 600-284084/2-A

Matrix: Water

Analysis Batch: 285493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 284084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	0.501	0.463		mg/L	-	92	70 - 130		

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197921-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-284084/2-A

Matrix: Water

Analysis Batch: 285493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 284084

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	83		60 - 140

Lab Sample ID: LCSD 600-284084/3-A

Matrix: Water

Analysis Batch: 285493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 284084

	Spike	LCSD	LCSD						%Rec.	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Diesel Range Organics [C10-C28]	0.501	0.489		mg/L	-	98	70 - 130	5	30		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	93		60 - 140

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.

Job ID: 600-197921-1

Project/Site: Chevron - Buckeye Compressor Station

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units
Benzene	0.0010	0.00018	mg/L
Ethylbenzene	0.0010	0.00021	mg/L
Toluene	0.0010	0.00020	mg/L
Xylenes, Total	0.0020	0.00037	mg/L

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	0.050	0.023	mg/L

Method: 8015B - Diesel Range Organics (DRO) (GC)

Prep: 3510C

Analyte	MQL	MDL	Units
C28-C36	0.25	0.15	mg/L
Diesel Range Organics [C10-C28]	0.25	0.045	mg/L

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197921-1

GC/MS VOA

Analysis Batch: 284007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197921-1	MW-7-W-191220	Total/NA	Water	8260B	
600-197921-2	MW-6-W-191220	Total/NA	Water	8260B	
600-197921-3	MW-2-W-191220	Total/NA	Water	8260B	
MB 600-284007/7	Method Blank	Total/NA	Water	8260B	
LCS 600-284007/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-284007/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 283924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197921-1	MW-7-W-191220	Total/NA	Water	8015B	
600-197921-2	MW-6-W-191220	Total/NA	Water	8015B	
600-197921-3	MW-2-W-191220	Total/NA	Water	8015B	
MB 600-283924/7	Method Blank	Total/NA	Water	8015B	
LCS 600-283924/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 600-283924/6	Lab Control Sample Dup	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 284084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197921-1	MW-7-W-191220	Total/NA	Water	3510C	
600-197921-2	MW-6-W-191220	Total/NA	Water	3510C	
600-197921-3	MW-2-W-191220	Total/NA	Water	3510C	
MB 600-284084/1-A	Method Blank	Total/NA	Water	3510C	
LCS 600-284084/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 600-284084/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 284933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197921-2	MW-6-W-191220	Total/NA	Water	8015B	284084
600-197921-3	MW-2-W-191220	Total/NA	Water	8015B	284084

Analysis Batch: 285493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197921-1	MW-7-W-191220	Total/NA	Water	8015B	284084
MB 600-284084/1-A	Method Blank	Total/NA	Water	8015B	284084
LCS 600-284084/2-A	Lab Control Sample	Total/NA	Water	8015B	284084
LCSD 600-284084/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	284084

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197921-1

Client Sample ID: MW-7-W-191220

Lab Sample ID: 600-197921-1

Date Collected: 12/20/19 08:20

Matrix: Water

Date Received: 12/21/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	284007	12/25/19 05:32	PXS	TAL HOU
Total/NA	Analysis	8015B		1	283924	12/24/19 12:06	WS1	TAL HOU
Total/NA	Prep	3510C			284084	12/26/19 12:53	KP	TAL HOU
Total/NA	Analysis	8015B		1	285493	01/18/20 02:36	RJV	TAL HOU

Client Sample ID: MW-6-W-191220

Lab Sample ID: 600-197921-2

Date Collected: 12/20/19 09:15

Matrix: Water

Date Received: 12/21/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	284007	12/25/19 06:01	PXS	TAL HOU
Total/NA	Analysis	8015B		1	283924	12/24/19 12:30	WS1	TAL HOU
Total/NA	Prep	3510C			284084	12/26/19 12:53	KP	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 03:22	RJV	TAL HOU

Client Sample ID: MW-2-W-191220

Lab Sample ID: 600-197921-3

Date Collected: 12/20/19 09:55

Matrix: Water

Date Received: 12/21/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	284007	12/25/19 06:28	PXS	TAL HOU
Total/NA	Analysis	8015B		1	283924	12/24/19 15:24	WS1	TAL HOU
Total/NA	Prep	3510C			284084	12/26/19 12:53	KP	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/10/20 03:55	RJV	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197921-1

Project/Site: Chevron - Buckeye Compressor Station

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Water	Gasoline Range Organics [C6 - C10]
8015B	3510C	Water	C28-C36
8015B	3510C	Water	Diesel Range Organics [C10-C28]

Chain of Custody Record

Client Information Client Contact: Douglas Jordan Company: ARCADIS U.S. Inc. Address: 10205 Westheimer Rd Suite 800 City: Houston State, Zip: TX, 77042 Phone: 713-953-4739(Tel) Email: douglas.jordan@arcadis.com Project Name: Chevron - Buckeye Compressor Station Site:		Sampler: Chas Holder Lab PM: Kuchchadkar, Sachin G Phone: 806-831-9801 E-Mail: sachin.kuchchadkar@testamerica.com		Carrier Tracking No(s): CCO-72884-20028.1 Page 10 of 1 Job #	
Due Date Requested: TAT Requested (days): Standard PO # WO # Project # 60011813 SSOW#		Analysis Requested Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2SO3 E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Decahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:			
Sample Identification MW-7-W-191220 MW-6-W-191220 MW-2-W-191220		Total Number of Containers: 7 Special Instructions/Note:			
Sample Date: 12-20 Sample Time: 0820 Sample Type (C=Comp, G=grab): G Matrix (Water, Solid, On-water): Water		Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 8015B_GRO - (C6-C10) - 2 X 40 ml Vials/HCL North Canton 8015B_DRO - (C6-C10) - 2 X 40 ml Vials/HCL North Canton 8260B_LL - BTEX Only 2540C_Calcd, -TDS 300_ORGM- Chloride			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Empty Kit Relinquished by: Chas Holder Relinquished by: Chas Holder Relinquished by:		Special Instructions/QC Requirements: Method of Shipment:			
Date/Time: 12-20-19/1315 Date/Time: 12-21-19 1045 Date/Time:		Received by: [Signature] Received by: [Signature] Received by:			
Company: Arcadis Company: Arcadis Company:		Company: [Signature] Company: [Signature] Company:			
Custody Seals Intact: Δ Yes Δ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Loc: 600
197921



Environment Testing
TestAmerica

Eurofins TestAmerica Houston

13 DEC 21 10:45

Sample Receipt Checklist

JOB NUMBER:

921
47

Date/Time Received:

CLIENT:

Arcadis
FedEx

UNPACKED BY:

CARRIER/DRIVER:

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
0222	Y / ☒ N	Y / ☒ N	2.8	676	+0.1	2.9
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YES

Base samples are >pH 12: ☐ YES ☐ NO

Acid preserved are <pH 2: ☐ YES ☐ NO

TX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☒ YES ☐ NO ☐ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

COMMENTS:

HS-SA-WI-013

Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-197921-1

Login Number: 197921

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Taylor, Jacquelyn R

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-197947-1

Client Project/Site: Chevron - Buckeye Compressor Station

For:

ARCADIS U.S., Inc.
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Scott Foord



Authorized for release by:
1/14/2020 5:44:53 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197947-1

Project/Site: Chevron - Buckeye Compressor Station

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL HOU
5030B	Purge and Trap	SW846	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197947-1

Project/Site: Chevron - Buckeye Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-197947-1	MW-21	Water	12/17/19 08:30	12/19/19 12:40	
600-197947-2	MW-24	Water	12/17/19 12:05	12/19/19 12:40	
600-197947-3	MW-26	Water	12/17/19 14:05	12/19/19 12:40	
600-197947-4	MW-1	Water	12/17/19 15:00	12/19/19 12:40	
600-197947-5	Trip Blank	Water	12/17/19 00:00	12/19/19 12:40	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Client Sample ID: MW-21

Lab Sample ID: 600-197947-1

Date Collected: 12/17/19 08:30

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 08:49	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 08:49	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 08:49	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 08:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		50 - 134		12/25/19 08:49	1
Dibromofluoromethane	120		62 - 130		12/25/19 08:49	1
Toluene-d8 (Surr)	91		70 - 130		12/25/19 08:49	1
4-Bromofluorobenzene	87		67 - 139		12/25/19 08:49	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/24/19 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		70 - 130		12/24/19 12:55	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.047	U	0.26	0.047	mg/L		12/24/19 11:42	01/09/20 15:55	1
C28-C36	0.16	U	0.26	0.16	mg/L		12/24/19 11:42	01/09/20 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		60 - 140	12/24/19 11:42	01/09/20 15:55	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240	B	8.0	1.1	mg/L			01/02/20 20:39	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		20	20	mg/L			12/24/19 12:52	1

Client Sample ID: MW-24

Lab Sample ID: 600-197947-2

Date Collected: 12/17/19 12:05

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 09:17	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 09:17	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 09:17	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 09:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		50 - 134		12/25/19 09:17	1
Dibromofluoromethane	115		62 - 130		12/25/19 09:17	1
Toluene-d8 (Surr)	85		70 - 130		12/25/19 09:17	1
4-Bromofluorobenzene	77		67 - 139		12/25/19 09:17	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Client Sample ID: MW-24

Lab Sample ID: 600-197947-2

Date Collected: 12/17/19 12:05

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.043	J	0.050	0.023	mg/L			12/24/19 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		70 - 130					12/24/19 13:19	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.047	U	0.26	0.047	mg/L		12/24/19 11:42	01/09/20 16:28	1
C28-C36	0.16	U	0.26	0.16	mg/L		12/24/19 11:42	01/09/20 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		60 - 140				12/24/19 11:42	01/09/20 16:28	1

Client Sample ID: MW-26

Lab Sample ID: 600-197947-3

Date Collected: 12/17/19 14:05

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 09:45	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 09:45	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 09:45	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 09:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		50 - 134					12/25/19 09:45	1
Dibromofluoromethane	115		62 - 130					12/25/19 09:45	1
Toluene-d8 (Surr)	90		70 - 130					12/25/19 09:45	1
4-Bromofluorobenzene	79		67 - 139					12/25/19 09:45	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L			12/24/19 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		70 - 130					12/24/19 13:44	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.046	U	0.26	0.046	mg/L		12/24/19 11:42	01/09/20 17:01	1
C28-C36	0.15	U	0.26	0.15	mg/L		12/24/19 11:42	01/09/20 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		60 - 140				12/24/19 11:42	01/09/20 17:01	1

Client Sample ID: MW-1

Lab Sample ID: 600-197947-4

Date Collected: 12/17/19 15:00

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 10:13	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Client Sample ID: MW-1

Lab Sample ID: 600-197947-4

Date Collected: 12/17/19 15:00

Matrix: Water

Date Received: 12/19/19 12:40

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 10:13	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 10:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		50 - 134					12/25/19 10:13	1
Dibromofluoromethane	114		62 - 130					12/25/19 10:13	1
Toluene-d8 (Surr)	104		70 - 130					12/25/19 10:13	1
4-Bromofluorobenzene	82		67 - 139					12/25/19 10:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.84		0.050	0.0088	mg/L			12/27/19 18:49	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	60		50 - 134					12/27/19 18:49	50
Dibromofluoromethane	105		62 - 130					12/27/19 18:49	50
Toluene-d8 (Surr)	112		70 - 130					12/27/19 18:49	50
4-Bromofluorobenzene	71		67 - 139					12/27/19 18:49	50

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	3.0		0.25	0.12	mg/L			12/24/19 14:59	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		70 - 130					12/24/19 14:59	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.14	J	0.26	0.047	mg/L		12/24/19 11:42	01/09/20 17:33	1
C28-C36	0.16	U	0.26	0.16	mg/L		12/24/19 11:42	01/09/20 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140				12/24/19 11:42	01/09/20 17:33	1

Client Sample ID: Trip Blank

Lab Sample ID: 600-197947-5

Date Collected: 12/17/19 00:00

Matrix: Water

Date Received: 12/19/19 12:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 04:36	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 04:36	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 04:36	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		50 - 134					12/25/19 04:36	1
Dibromofluoromethane	124		62 - 130					12/25/19 04:36	1
Toluene-d8 (Surr)	99		70 - 130					12/25/19 04:36	1
4-Bromofluorobenzene	82		67 - 139					12/25/19 04:36	1

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-197947-1

Project/Site: Chevron - Buckeye Compressor Station

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (50-134)	DBFM (62-130)	TOL (70-130)	BFB (67-139)
600-197947-1	MW-21	89	120	91	87
600-197947-2	MW-24	83	115	85	77
600-197947-3	MW-26	80	115	90	79
600-197947-4	MW-1	83	114	104	82
600-197947-4 - DL	MW-1	60	105	112	71
600-197947-5	Trip Blank	83	124	99	82
LCS 600-284007/4	Lab Control Sample	92	114	98	85
LCS 600-284182/4	Lab Control Sample	58	92	99	73
LCSD 600-284007/5	Lab Control Sample Dup	89	117	102	86
LCSD 600-284182/5	Lab Control Sample Dup	55	90	101	72
MB 600-284007/7	Method Blank	82	110	84	76
MB 600-284182/7	Method Blank	63	104	112	75
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
DBFM = Dibromofluoromethane					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorobenzene					

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (70-130)			
600-197947-1	MW-21	86			
600-197947-2	MW-24	85			
600-197947-3	MW-26	85			
600-197947-4	MW-1	85			
LCS 600-283924/5	Lab Control Sample	91			
LCSD 600-283924/6	Lab Control Sample Dup	90			
MB 600-283924/7	Method Blank	87			
Surrogate Legend					
TFT = a,a,a-Trifluorotoluene					

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1 (60-140)			
600-197947-1	MW-21	72			
600-197947-2	MW-24	75			
600-197947-3	MW-26	66			
600-197947-4	MW-1	73			
LCS 600-283979/2-A	Lab Control Sample	75			
LCSD 600-283979/3-A	Lab Control Sample Dup	80			
MB 600-283979/1-A	Method Blank	74			
Surrogate Legend					
OTPH = o-Terphenyl					

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-284007/7

Matrix: Water

Analysis Batch: 284007

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/25/19 03:40	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/25/19 03:40	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/25/19 03:40	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/25/19 03:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134		12/25/19 03:40	1
Dibromofluoromethane	110		62 - 130		12/25/19 03:40	1
Toluene-d8 (Surr)	84		70 - 130		12/25/19 03:40	1
4-Bromofluorobenzene	76		67 - 139		12/25/19 03:40	1

Lab Sample ID: LCS 600-284007/4

Matrix: Water

Analysis Batch: 284007

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.00927		mg/L		93	70 - 130
Ethylbenzene	0.0100	0.00972		mg/L		97	70 - 130
Toluene	0.0100	0.0107		mg/L		107	70 - 130
Xylenes, Total	0.0200	0.0186		mg/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		50 - 134
Dibromofluoromethane	114		62 - 130
Toluene-d8 (Surr)	98		70 - 130
4-Bromofluorobenzene	85		67 - 139

Lab Sample ID: LCSD 600-284007/5

Matrix: Water

Analysis Batch: 284007

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.00932		mg/L		93	70 - 130	0	20
Ethylbenzene	0.0100	0.0102		mg/L		102	70 - 130	4	20
Toluene	0.0100	0.0110		mg/L		110	70 - 130	2	20
Xylenes, Total	0.0200	0.0192		mg/L		96	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		50 - 134
Dibromofluoromethane	117		62 - 130
Toluene-d8 (Surr)	102		70 - 130
4-Bromofluorobenzene	86		67 - 139

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

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

Lab Sample ID: MB 600-284182/7

Matrix: Water

Analysis Batch: 284182

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00018	U	0.0010	0.00018	mg/L			12/27/19 15:34	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/L			12/27/19 15:34	1
Toluene	0.00020	U	0.0010	0.00020	mg/L			12/27/19 15:34	1
Xylenes, Total	0.00037	U	0.0020	0.00037	mg/L			12/27/19 15:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	63		50 - 134		12/27/19 15:34	1
Dibromofluoromethane	104		62 - 130		12/27/19 15:34	1
Toluene-d8 (Surr)	112		70 - 130		12/27/19 15:34	1
4-Bromofluorobenzene	75		67 - 139		12/27/19 15:34	1

Lab Sample ID: LCS 600-284182/4

Matrix: Water

Analysis Batch: 284182

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.00813		mg/L		81	70 - 130
Ethylbenzene	0.0100	0.00998		mg/L		100	70 - 130
Toluene	0.0100	0.0113		mg/L		113	70 - 130
Xylenes, Total	0.0200	0.0174		mg/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	58		50 - 134
Dibromofluoromethane	92		62 - 130
Toluene-d8 (Surr)	99		70 - 130
4-Bromofluorobenzene	73		67 - 139

Lab Sample ID: LCSD 600-284182/5

Matrix: Water

Analysis Batch: 284182

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.00749		mg/L		75	70 - 130	8	20
Ethylbenzene	0.0100	0.00961		mg/L		96	70 - 130	4	20
Toluene	0.0100	0.0106		mg/L		106	70 - 130	6	20
Xylenes, Total	0.0200	0.0171		mg/L		85	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	55		50 - 134
Dibromofluoromethane	90		62 - 130
Toluene-d8 (Surr)	101		70 - 130
4-Bromofluorobenzene	72		67 - 139

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-283924/7

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.023	U	0.050	0.023	mg/L	-		12/24/19 10:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		70 - 130					12/24/19 10:29	1

Lab Sample ID: LCS 600-283924/5

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	0.252	0.309		mg/L	-	123	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	91		70 - 130						

Lab Sample ID: LCSD 600-283924/6

Matrix: Water

Analysis Batch: 283924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.252	0.291		mg/L	-	116	70 - 130	6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	90		70 - 130						

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-283979/1-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 283979

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.045	U	0.25	0.045	mg/L	-	12/24/19 11:42	01/09/20 14:17	1
C28-C36	0.15	U	0.25	0.15	mg/L	-	12/24/19 11:42	01/09/20 14:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		60 - 140				12/24/19 11:42	01/09/20 14:17	1

Lab Sample ID: LCS 600-283979/2-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 283979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	1.00	0.974		mg/L	-	97	70 - 130		

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-283979/2-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 283979

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	75		60 - 140

Lab Sample ID: LCSD 600-283979/3-A

Matrix: Water

Analysis Batch: 284933

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 283979

			Spike	LCSD	LCSD				%Rec.			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Diesel Range Organics [C10-C28]			1.00	0.907		mg/L	-	91	70 - 130	7	30	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier										
<i>o</i> -Terphenyl	80											

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-284487/4

Matrix: Water

Analysis Batch: 284487

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	0.172	J	0.40	0.053	mg/L	-		01/02/20 17:21	1		

Lab Sample ID: LCS 600-284487/5

Matrix: Water

Analysis Batch: 284487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			20.0	21.0		mg/L	-	105	90 - 110		

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 600-283991/1

Matrix: Water

Analysis Batch: 283991

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac		
Total Dissolved Solids	10	U	10	10	mg/L	-		12/24/19 12:52	1		

Lab Sample ID: LCS 600-283991/2

Matrix: Water

Analysis Batch: 283991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Total Dissolved Solids			1800	1780		mg/L	-	99	90 - 110		

Eurofins TestAmerica, Houston

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.

Job ID: 600-197947-1

Project/Site: Chevron - Buckeye Compressor Station

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units
Benzene	0.0010	0.00018	mg/L
Ethylbenzene	0.0010	0.00021	mg/L
Toluene	0.0010	0.00020	mg/L
Xylenes, Total	0.0020	0.00037	mg/L

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	0.050	0.023	mg/L

Method: 8015B - Diesel Range Organics (DRO) (GC)

Prep: 3510C

Analyte	MQL	MDL	Units
C28-C36	0.25	0.15	mg/L
Diesel Range Organics [C10-C28]	0.25	0.045	mg/L

Method: 300.0 - Anions, Ion Chromatography

Analyte	MQL	MDL	Units
Chloride	0.40	0.053	mg/L

General Chemistry

Analyte	MQL	MDL	Units
Total Dissolved Solids	10	10	mg/L

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

GC/MS VOA

Analysis Batch: 284007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197947-1	MW-21	Total/NA	Water	8260B	
600-197947-2	MW-24	Total/NA	Water	8260B	
600-197947-3	MW-26	Total/NA	Water	8260B	
600-197947-4	MW-1	Total/NA	Water	8260B	
600-197947-5	Trip Blank	Total/NA	Water	8260B	
MB 600-284007/7	Method Blank	Total/NA	Water	8260B	
LCS 600-284007/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-284007/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 284182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197947-4 - DL	MW-1	Total/NA	Water	8260B	
MB 600-284182/7	Method Blank	Total/NA	Water	8260B	
LCS 600-284182/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-284182/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 283924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197947-1	MW-21	Total/NA	Water	8015B	
600-197947-2	MW-24	Total/NA	Water	8015B	
600-197947-3	MW-26	Total/NA	Water	8015B	
600-197947-4	MW-1	Total/NA	Water	8015B	
MB 600-283924/7	Method Blank	Total/NA	Water	8015B	
LCS 600-283924/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 600-283924/6	Lab Control Sample Dup	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 283979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197947-1	MW-21	Total/NA	Water	3510C	
600-197947-2	MW-24	Total/NA	Water	3510C	
600-197947-3	MW-26	Total/NA	Water	3510C	
600-197947-4	MW-1	Total/NA	Water	3510C	
MB 600-283979/1-A	Method Blank	Total/NA	Water	3510C	
LCS 600-283979/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 600-283979/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 284933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197947-1	MW-21	Total/NA	Water	8015B	283979
600-197947-2	MW-24	Total/NA	Water	8015B	283979
600-197947-3	MW-26	Total/NA	Water	8015B	283979
600-197947-4	MW-1	Total/NA	Water	8015B	283979
MB 600-283979/1-A	Method Blank	Total/NA	Water	8015B	283979
LCS 600-283979/2-A	Lab Control Sample	Total/NA	Water	8015B	283979
LCSD 600-283979/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	283979

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QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197947-1

Project/Site: Chevron - Buckeye Compressor Station

HPLC/IC

Analysis Batch: 284487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197947-1	MW-21	Total/NA	Water	300.0	
MB 600-284487/4	Method Blank	Total/NA	Water	300.0	
LCS 600-284487/5	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 283991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-197947-1	MW-21	Total/NA	Water	2540 C-1997	
MB 600-283991/1	Method Blank	Total/NA	Water	2540 C-1997	
LCS 600-283991/2	Lab Control Sample	Total/NA	Water	2540 C-1997	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Client Sample ID: MW-21

Lab Sample ID: 600-197947-1

Date Collected: 12/17/19 08:30

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	284007	12/25/19 08:49	PXS	TAL HOU
Total/NA	Analysis	8015B		1	283924	12/24/19 12:55	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 15:55	RJV	TAL HOU
Total/NA	Analysis	300.0		20	284487	01/02/20 20:39	SKR	TAL HOU
Total/NA	Analysis	2540 C-1997		1	283991	12/24/19 12:52	TNL	TAL HOU

Client Sample ID: MW-24

Lab Sample ID: 600-197947-2

Date Collected: 12/17/19 12:05

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	284007	12/25/19 09:17	PXS	TAL HOU
Total/NA	Analysis	8015B		1	283924	12/24/19 13:19	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 16:28	RJV	TAL HOU

Client Sample ID: MW-26

Lab Sample ID: 600-197947-3

Date Collected: 12/17/19 14:05

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	284007	12/25/19 09:45	PXS	TAL HOU
Total/NA	Analysis	8015B		1	283924	12/24/19 13:44	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 17:01	RJV	TAL HOU

Client Sample ID: MW-1

Lab Sample ID: 600-197947-4

Date Collected: 12/17/19 15:00

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	284007	12/25/19 10:13	PXS	TAL HOU
Total/NA	Analysis	8260B	DL	50	284182	12/27/19 18:49	KLV	TAL HOU
Total/NA	Analysis	8015B		5	283924	12/24/19 14:59	WS1	TAL HOU
Total/NA	Prep	3510C			283979	12/24/19 11:42	ARS	TAL HOU
Total/NA	Analysis	8015B		1	284933	01/09/20 17:33	RJV	TAL HOU

Client Sample ID: Trip Blank

Lab Sample ID: 600-197947-5

Date Collected: 12/17/19 00:00

Matrix: Water

Date Received: 12/19/19 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	284007	12/25/19 04:36	PXS	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Buckeye Compressor Station

Job ID: 600-197947-1

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-197947-1

Project/Site: Chevron - Buckeye Compressor Station

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Water	Gasoline Range Organics [C6 - C10]
8015B	3510C	Water	C28-C36
8015B	3510C	Water	Diesel Range Organics [C10-C28]

Loc: 600

197947

Environment Testing
TestAmerica

19 DEC 19 12:41

Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: _____

JOB NUMBER: _____

CLIENT: ArcadisUNPACKED BY: JPCARRIER/DRIVER: FedExCustody Seal Present: ☒ YES ☐ NONumber of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
<u>3095</u>	<u>Y / N</u>	<u>Y / N</u>	<u>2.3</u>	<u>616</u>	<u>+0.1</u>	<u>2.4</u>
	<u>Y / N</u>	<u>Y / N</u>				
	<u>Y / N</u>	<u>Y / N</u>				
	<u>Y / N</u>	<u>Y / N</u>				
	<u>Y / N</u>	<u>Y / N</u>				
	<u>Y / N</u>	<u>Y / N</u>				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:

☒ NO☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☒ YES ☐ NO ☐ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

COMMENTS:

JP 12/19/19

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-197947-1

Login Number: 197947

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.



February 5, 2019

Scott Foord
GHD Services, INC- Midland
2135 S Loop 250 W Midland, TX 79703

Please find the attached Confirmation of Sample Receipt for samples received by our laboratory on 02/01/2019. The samples have been logged in for a 7 Days turnaround with results due 02/12/2019. The following is our understanding of your project requirements as described on the enclosed chain of custody form. To ensure that your needs are met, please take a moment to verify that:

1. The number and type of samples received are correct.
2. The analytical methods specified are correct.
3. Due dates for analytical results are correct.
4. Address, phone and fax information are correct.

Your samples will be retained for a period of 60 business days following receipt of the samples. After that time, they will be properly disposed of without further notice, unless there is an acknowledged written request. We reserve the right to return any unused samples, extracts or related solutions that have been identified as hazardous waste, are controlled substances under regulated protocols or have sample sizes exceeding standard analytical practices.

If there are any questions, please do not hesitate to contact your Project Manager and reference work order number **613267**

The following samples were received on Feb 01,2019 and will be analyzed as follows:

Client: GHD Services, INC- Midland
Lab PM: Debbie Simmons
Project ID: 073014
Project Name: Buckeye Compressor
Location: Buckeye, NM
QC Package: TRRP and QCs (Texas-UST)
EDD Type: Chevron_Locus_v62

Turnaround: 7 Days
Results Due: Feb-12-2019 17:00
Report to Scott Foord

Client Sample ID	Lab ID	Method Name (Analysis)	Matrix	Sampled
MW-1-W-190129	613267-001	TPH by SW8015 Mod	Ground Water	01/29/19 09:10
MW-1-W-190129	613267-001	BTEX by EPA 8021B	Ground Water	01/29/19 09:10
MW-8-W-190129	613267-002	TPH by SW8015 Mod	Ground Water	01/29/19 10:10
MW-8-W-190129	613267-002	BTEX by EPA 8021B	Ground Water	01/29/19 10:10
MW-2-W-190129	613267-003	TPH by SW8015 Mod	Ground Water	01/29/19 11:10
MW-2-W-190129	613267-003	BTEX by EPA 8021B	Ground Water	01/29/19 11:10
MW-6-W-190129	613267-004	TPH by SW8015 Mod	Ground Water	01/29/19 12:10
MW-6-W-190129	613267-004	BTEX by EPA 8021B	Ground Water	01/29/19 12:10
MW-7-W-190129	613267-005	TPH by SW8015 Mod	Ground Water	01/29/19 13:10
MW-7-W-190129	613267-005	BTEX by EPA 8021B	Ground Water	01/29/19 13:10
TW-13-W-190129	613267-006	TPH by SW8015 Mod	Ground Water	01/29/19 14:20
TW-13-W-190129	613267-006	BTEX by EPA 8021B	Ground Water	01/29/19 14:20
MW-18-W-190129	613267-007	TPH by SW8015 Mod	Ground Water	01/29/19 15:40
MW-18-W-190129	613267-007	BTEX by EPA 8021B	Ground Water	01/29/19 15:40
MW-4-W-190129	613267-008	TPH by SW8015 Mod	Ground Water	01/29/19 16:50
MW-4-W-190129	613267-008	BTEX by EPA 8021B	Ground Water	01/29/19 16:50
MW-24-W-190130	613267-009	TPH by SW8015 Mod	Ground Water	01/30/19 09:00
MW-24-W-190130	613267-009	BTEX by EPA 8021B	Ground Water	01/30/19 09:00
MW-20-W-190130	613267-010	TPH by SW8015 Mod	Ground Water	01/30/19 10:00
MW-20-W-190130	613267-010	BTEX by EPA 8021B	Ground Water	01/30/19 10:00
MW-25-W-190130	613267-011	TPH by SW8015 Mod	Ground Water	01/30/19 11:05
MW-25-W-190130	613267-011	BTEX by EPA 8021B	Ground Water	01/30/19 11:05
MW-26-W-190130	613267-012	TPH by SW8015 Mod	Ground Water	01/30/19 12:10
MW-26-W-190130	613267-012	BTEX by EPA 8021B	Ground Water	01/30/19 12:10
MW-13-W-190130	613267-013	TPH by SW8015 Mod	Ground Water	01/30/19 13:25
MW-13-W-190130	613267-013	BTEX by EPA 8021B	Ground Water	01/30/19 13:25
MW-15-W-190130	613267-014	TPH by SW8015 Mod	Ground Water	01/30/19 16:00
MW-15-W-190130	613267-014	BTEX by EPA 8021B	Ground Water	01/30/19 16:00
MW-14-W-190130	613267-015	TPH by SW8015 Mod	Ground Water	01/30/19 14:45
MW-14-W-190130	613267-015	BTEX by EPA 8021B	Ground Water	01/30/19 14:45
DUP-1-W-190130	613267-016	TPH by SW8015 Mod	Ground Water	01/30/19 00:00
DUP-1-W-190130	613267-016	BTEX by EPA 8021B	Ground Water	01/30/19 00:00
MW-17-W-190131	613267-017	TPH by SW8015 Mod	Ground Water	01/31/19 09:10
MW-17-W-190131	613267-017	BTEX by EPA 8021B	Ground Water	01/31/19 09:10
MW-21-W-190131	613267-018	Chloride by EPA 300	Ground Water	01/31/19 11:30

Client: GHD Services, INC- Midland
Lab PM: Debbie Simmons
Project ID: 073014
Project Name: Buckeye Compressor
Location: Buckeye, NM
QC Package: TRRP and QCs (Texas-UST)
EDD Type: Chevron_Locus_v62

Turnaround: 7 Days
Results Due: Feb-12-2019 17:00
Report to Scott Foord

Client Sample ID	Lab ID	Method Name (Analysis)	Matrix	Sampled
MW-21-W-190131	613267-018	TDS by SM2540C	Ground Water	01/31/19 11:30
MW-21-W-190131	613267-018	TPH by SW8015 Mod	Ground Water	01/31/19 11:30
MW-21-W-190131	613267-018	BTEX by EPA 8021B	Ground Water	01/31/19 11:30
MW-5-W-190131	613267-019	TPH by SW8015 Mod	Ground Water	01/31/19 13:00
MW-5-W-190131	613267-019	BTEX by EPA 8021B	Ground Water	01/31/19 13:00
MW-12-W-190131	613267-020	TPH by SW8015 Mod	Ground Water	01/31/19 14:05
MW-12-W-190131	613267-020	BTEX by EPA 8021B	Ground Water	01/31/19 14:05
TW-11-W-190131	613267-021	TPH by SW8015 Mod	Ground Water	01/31/19 15:20
TW-11-W-190131	613267-021	BTEX by EPA 8021B	Ground Water	01/31/19 15:20
TW-20-W-190131	613267-022	TPH by SW8015 Mod	Ground Water	01/31/19 16:30
TW-20-W-190131	613267-022	BTEX by EPA 8021B	Ground Water	01/31/19 16:30
DUP-2-W-190131	613267-023	TPH by SW8015 Mod	Ground Water	01/31/19 00:00
DUP-2-W-190131	613267-023	BTEX by EPA 8021B	Ground Water	01/31/19 00:00
MW-22-W-190201	613267-024	TPH by SW8015 Mod	Ground Water	02/01/19 11:30
MW-22-W-190201	613267-024	BTEX by EPA 8021B	Ground Water	02/01/19 11:30
MW-16-W-190201	613267-025	TPH by SW8015 Mod	Ground Water	02/01/19 08:30
MW-16-W-190201	613267-025	BTEX by EPA 8021B	Ground Water	02/01/19 08:30
MW-23-W-190201	613267-026	TPH by SW8015 Mod	Ground Water	02/01/19 10:05
MW-23-W-190201	613267-026	BTEX by EPA 8021B	Ground Water	02/01/19 10:05
DUP-3-W-190201	613267-027	TPH by SW8015 Mod	Ground Water	02/01/19 00:00
DUP-3-W-190201	613267-027	BTEX by EPA 8021B	Ground Water	02/01/19 00:00

Special Instructions:

flag to SDL



Chain of Custody

Work Order No: 613267

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

www.xenco.com

Page 1 of 3

Project Manager:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Environmental Management Company
Address:	2135 S. Loop 250 W.	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX 79703	City, State ZIP:	Houston, Texas 77002
Phone:	713-734-3090	Email:	Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		CEMC Buckeye Compressor Station		Turn Around		ANALYSIS REQUEST																Work Order Notes	
Project Number:		073014		Routine ☒																		TAT starts the day received by the lab, if received by 4:30pm	
P.O. Number:				Rush:																			
Sampler's Name:		Sustan Nixon		Due Date:																			
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☐ No		Wet Ice: ☒ Yes ☐ No																			
Temperature (°C):		0-3/0.2		Thermometer ID:																		Sample Comments	
Received Intact:		☒ Yes ☐ No		Correction Factor: -0.1																			
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Total Containers:																			
Sample Custody Seals:		Yes ☒ No ☐ N/A																					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (SW8021)	TPH (SW8015)	Chloride	TDS													
mw-1-w-190129		GW	1-29-19	910		5	X	X															
mw-8-w-190129				1010																			
mw-2-w-190129				1110																			
mw-6-w-190129				1210																			
mw-7-w-190129				1310																			
Tw-13-w-190129				1420																			
mw-18-w-190129				1540																			
mw-4-w-190129				1650																			
mw-24-w-190130			1-30-19	900																			
mw-20-w-190130				1000																			

Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	2	2-1-19 1530	3		
3			4		
5			6		



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: GHD Services, INC- Midland

Date/ Time Received: 02/01/2019 03:30:00 PM

Work Order #: 613267

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes TDS and Chloride sent to Xenco Stafford
#18 Water VOC samples have zero headspace?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: BT

PH Device/Lot#: A032690

Checklist completed by:	<u>Brianna Teel</u>	Date: <u>02/01/2019</u>
	Brianna Teel	
Checklist reviewed by:	<u>Debbie Simmons</u>	Date: <u>02/05/2019</u>
	Debbie Simmons	

Analytical Report 613267

for
GHD Services, INC- Midland

Project Manager: Scott Foord
CEMC Buckeye Compressor Station
073014

14-FEB-19

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)
Xenco-Lakeland: Florida (E84098)

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14-FEB-19

Project Manager: **Scott Foord**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **613267**
CEMC Buckeye Compressor Station
Project Address: Buckeye, NM

Scott Foord:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 613267. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 613267 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Debbie Simmons

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1-W-190129	W	01-29-19 09:10		613267-001
MW-8-W-190129	W	01-29-19 10:10		613267-002
MW-2-W-190129	W	01-29-19 11:10		613267-003
MW-6-W-190129	W	01-29-19 12:10		613267-004
MW-7-W-190129	W	01-29-19 13:10		613267-005
TW-13-W-190129	W	01-29-19 14:20		613267-006
MW-18-W-190129	W	01-29-19 15:40		613267-007
MW-4-W-190129	W	01-29-19 16:50		613267-008
MW-24-W-190130	W	01-30-19 09:00		613267-009
MW-20-W-190130	W	01-30-19 10:00		613267-010
MW-25-W-190130	W	01-30-19 11:05		613267-011
MW-26-W-190130	W	01-30-19 12:10		613267-012
MW-13-W-190130	W	01-30-19 13:25		613267-013
MW-15-W-190130	W	01-30-19 16:00		613267-014
MW-14-W-190130	W	01-30-19 14:45		613267-015
DUP-1-W-190130	W	01-30-19 00:00		613267-016
MW-17-W-190131	W	01-31-19 09:10		613267-017
MW-21-W-190131	W	01-31-19 11:30		613267-018
MW-5-W-190131	W	01-31-19 13:00		613267-019
MW-12-W-190131	W	01-31-19 14:05		613267-020
TW-11-W-190131	W	01-31-19 15:20		613267-021
TW-20-W-190131	W	01-31-19 16:30		613267-022
DUP-2-W-190131	W	01-31-19 00:00		613267-023
MW-22-W-190201	W	02-01-19 11:30		613267-024
MW-16-W-190201	W	02-01-19 08:30		613267-025
MW-23-W-190201	W	02-01-19 10:05		613267-026
DUP-3-W-190201	W	02-01-19 00:00		613267-027



CASE NARRATIVE

Client Name: *GHD Services, INC- Midland*

Project Name: *CEMC Buckeye Compressor Station*

Project ID: 073014
Work Order Number(s): 613267

Report Date: 14-FEB-19
Date Received: 02/01/2019

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3078598 TPH by SW8015 Mod

Outlier/s are due to possible matrix interference.

Lab Sample ID 613267-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Gasoline Range Hydrocarbons (GRO) Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 613267-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-1-W-190129**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-001

Date Collected: 01.29.19 09.10

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 13:01	UF	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 13:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 13:01	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 13:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	2.02	0.200	0.0408	mg/L	02.11.19 12:44	D	100
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 06:19	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 06:19	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 06:19	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 06:19	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 06:19	U	
Total BTEX		2.02		0.000367	mg/L	02.11.19 12:44		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	120	70 - 130	%		
4-Bromofluorobenzene	92	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-8-W-190129**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-002

Date Collected: 01.29.19 10.10

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	6.77	1.50	0.986	mg/L	02.08.19 13:59		1
Diesel Range Organics (DRO)	C10C28DRO	1.02	1.50	0.911	mg/L	02.08.19 13:59	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 13:59	U	1
Total TPH	PHC635	7.79		0.911	mg/L	02.08.19 13:59		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	1.67	0.100	0.0204	mg/L	02.11.19 13:22	D	50
Toluene	108-88-3	0.0147	0.00200	0.000367	mg/L	02.09.19 08:15		1
Ethylbenzene	100-41-4	0.0618	0.00200	0.000657	mg/L	02.09.19 08:15		1
m,p-Xylenes	179601-23-1	0.0656	0.00400	0.000630	mg/L	02.09.19 08:15		1
o-Xylene	95-47-6	0.0230	0.00200	0.000642	mg/L	02.09.19 08:15		1
Total Xylenes	1330-20-7	0.0886		0.000630	mg/L	02.09.19 08:15		
Total BTEX		1.84		0.000367	mg/L	02.11.19 13:22		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	110	70 - 130	%		
4-Bromofluorobenzene	93	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-2-W-190129**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-003

Date Collected: 01.29.19 11.10

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 14:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 14:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 14:18	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 14:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	108	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00610	0.00200	0.000408	mg/L	02.09.19 06:38		1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 06:38	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 06:38	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 06:38	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 06:38	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 06:38	U	
Total BTEX		0.00610		0.000367	mg/L	02.09.19 06:38		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	106	70 - 130	%		
4-Bromofluorobenzene	92	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-6-W-190129**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-004

Date Collected: 01.29.19 12.10

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 14:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 14:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 14:37	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 14:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	115	70 - 135	%		
o-Terphenyl	116	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0188	0.00200	0.000408	mg/L	02.09.19 06:57		1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 06:57	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 06:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 06:57	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 06:57	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 06:57	U	
Total BTEX		0.0188		0.000367	mg/L	02.09.19 06:57		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	106	70 - 130	%		
4-Bromofluorobenzene	93	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-7-W-190129**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-005

Date Collected: 01.29.19 13.10

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 14:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 14:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 14:57	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 14:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.000610	0.00200	0.000408	mg/L	02.09.19 07:17	J	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 07:17	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 07:17	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 07:17	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 07:17	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 07:17	U	
Total BTEX		0.000610		0.000367	mg/L	02.09.19 07:17	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	70 - 130	%		
4-Bromofluorobenzene	91	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: TW-13-W-190129

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-006

Date Collected: 01.29.19 14.20

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 15:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 15:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 15:16	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 15:16	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.09.19 07:36	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 07:36	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 07:36	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 07:36	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 07:36	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 07:36	U	
Total BTEX		ND		0.000367	mg/L	02.09.19 07:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-18-W-190129**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-007

Date Collected: 01.29.19 15.40

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 15:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 15:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 15:36	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 15:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	117	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.000430	0.00200	0.000408	mg/L	02.09.19 09:30	J	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 09:30	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 09:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 09:30	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 09:30	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 09:30	U	
Total BTEX		0.000430		0.000367	mg/L	02.09.19 09:30	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	102	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-4-W-190129**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-008

Date Collected: 01.29.19 16.50

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	9.64	1.50	0.987	mg/L	02.08.19 15:55		1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.912	mg/L	02.08.19 15:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.912	mg/L	02.08.19 15:55	U	1
Total TPH	PHC635	9.64		0.912	mg/L	02.08.19 15:55		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	117	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	6.92	0.200	0.0408	mg/L	02.11.19 13:03	D	100
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 12:05	U	1
Ethylbenzene	100-41-4	0.00228	0.00200	0.000657	mg/L	02.09.19 12:05		1
m,p-Xylenes	179601-23-1	0.00113	0.00400	0.000630	mg/L	02.09.19 12:05	J	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 12:05	U	1
Total Xylenes	1330-20-7	0.00113		0.000630	mg/L	02.09.19 12:05	J	
Total BTEX		6.92		0.000367	mg/L	02.11.19 13:03		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	121	70 - 130	%		
4-Bromofluorobenzene	91	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-24-W-190130**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-009

Date Collected: 01.30.19 09.00

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.987	mg/L	02.08.19 16:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 16:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 16:15	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 16:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	129	70 - 135	%		
o-Terphenyl	128	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.09.19 09:49	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 09:49	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 09:49	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 09:49	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 09:49	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 09:49	U	
Total BTEX		ND		0.000367	mg/L	02.09.19 09:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	70 - 130	%		
4-Bromofluorobenzene	97	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-20-W-190130**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-010

Date Collected: 01.30.19 10.00

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 16:34	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 16:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.09.19 10:08	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 10:08	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 10:08	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 10:08	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 10:08	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 10:08	U	
Total BTEX		ND		0.000367	mg/L	02.09.19 10:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	70 - 130	%		
4-Bromofluorobenzene	98	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: MW-25-W-190130

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-011

Date Collected: 01.30.19 11.05

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 17:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 17:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 17:34	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 17:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	100	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.09.19 10:28	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 10:28	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 10:28	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 10:28	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 10:28	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 10:28	U	
Total BTEX		ND		0.000367	mg/L	02.09.19 10:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	70 - 130	%		
4-Bromofluorobenzene	98	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-26-W-190130**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-012

Date Collected: 01.30.19 12.10

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 17:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 17:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 17:54	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 17:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00112	0.00200	0.000408	mg/L	02.09.19 10:47	J	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 10:47	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 10:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 10:47	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 10:47	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 10:47	U	
Total BTEX		0.00112		0.000367	mg/L	02.09.19 10:47	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	103	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: MW-13-W-190130

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-013

Date Collected: 01.30.19 13.25

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 18:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 18:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 18:14	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 18:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	100	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.09.19 11:07	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 11:07	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 11:07	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 11:07	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 11:07	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 11:07	U	
Total BTEX		ND		0.000367	mg/L	02.09.19 11:07	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	103	70 - 130	%		
4-Bromofluorobenzene	97	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: MW-15-W-190130

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-014

Date Collected: 01.30.19 16.00

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 18:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 18:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 18:33	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 18:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	96	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.09.19 11:26	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 11:26	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 11:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 11:26	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 11:26	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 11:26	U	
Total BTEX		ND		0.000367	mg/L	02.09.19 11:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	70 - 130	%		
4-Bromofluorobenzene	93	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-14-W-190130**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-015

Date Collected: 01.30.19 14.45

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 18:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 18:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 18:53	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 18:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00904	0.00200	0.000408	mg/L	02.09.19 12:24		1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 12:24	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 12:24	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 12:24	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 12:24	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 12:24	U	
Total BTEX		0.00904		0.000367	mg/L	02.09.19 12:24		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	70 - 130	%		
4-Bromofluorobenzene	96	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **DUP-1-W-190130**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-016

Date Collected: 01.30.19 00.00

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 19:13	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 19:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	99	70 - 135	%		
o-Terphenyl	100	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.09.19 11:45	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 11:45	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 11:45	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 11:45	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 11:45	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.09.19 11:45	U	
Total BTEX		ND		0.000367	mg/L	02.09.19 11:45	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: MW-17-W-190131

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-017

Date Collected: 01.31.19 09.10

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	4.00	1.50	0.987	mg/L	02.08.19 19:33		1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 19:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 19:33	U	1
Total TPH	PHC635	4.00		0.911	mg/L	02.08.19 19:33		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	2.22	0.0400	0.00816	mg/L	02.13.19 15:17	D	20
Toluene	108-88-3	0.000410	0.00200	0.000367	mg/L	02.13.19 15:36	J	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 15:36	U	1
m,p-Xylenes	179601-23-1	0.000710	0.00400	0.000630	mg/L	02.13.19 15:36	J	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 15:36	U	1
Total Xylenes	1330-20-7	0.000710		0.000630	mg/L	02.13.19 15:36	J	
Total BTEX		2.22		0.000367	mg/L	02.13.19 15:17		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	126	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-21-W-190131**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-018

Date Collected: 01.31.19 11.30

Date Received: 02.01.19 15.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: JYM

% Moist:

Tech: JYM

Seq Number: 3078113

Date Prep: 02.04.19 15.57

Subcontractor: SUB: E871002

Prep seq: 7671026

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	263	0.500	0.0280	mg/L	02.05.19 23:13		1

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: KBU

% Moist:

Tech: KBU

Seq Number: 3077945

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total Dissolved Solids	1642222	972	5.00	5.00	mg/L	02.04.19 14:17		1

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.987	mg/L	02.08.19 19:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.912	mg/L	02.08.19 19:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.912	mg/L	02.08.19 19:53	U	1
Total TPH	PHC635	ND		0.912	mg/L	02.08.19 19:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	101	70 - 135	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-21-W-190131**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-018

Date Collected: 01.31.19 11.30

Date Received: 02.01.19 15.30

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 11:08	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 11:08	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 11:08	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 11:08	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 11:08	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 11:08	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 11:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	70 - 130	%		
4-Bromofluorobenzene	98	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: MW-5-W-190131

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-019

Date Collected: 01.31.19 13.00

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.09.19 21:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.09.19 21:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.09.19 21:40	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.09.19 21:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	90	70 - 135	%		
o-Terphenyl	89	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 11:28	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 11:28	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 11:28	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 11:28	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 11:28	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 11:28	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 11:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	109	70 - 130	%		
4-Bromofluorobenzene	97	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: MW-12-W-190131

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-020

Date Collected: 01.31.19 14.05

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.987	mg/L	02.09.19 22:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.912	mg/L	02.09.19 22:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.912	mg/L	02.09.19 22:40	U	1
Total TPH	PHC635	ND		0.912	mg/L	02.09.19 22:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	90	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 11:47	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 11:47	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 11:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 11:47	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 11:47	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 11:47	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 11:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	108	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: TW-11-W-190131

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-021

Date Collected: 01.31.19 15.20

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.09.19 23:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.09.19 23:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.09.19 23:00	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.09.19 23:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	90	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 12:06	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 12:06	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 12:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 12:06	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 12:06	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 12:06	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 12:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: TW-20-W-190131

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-022

Date Collected: 01.31.19 16.30

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.987	mg/L	02.09.19 23:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.09.19 23:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.09.19 23:20	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.09.19 23:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 12:26	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 12:26	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 12:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 12:26	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 12:26	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 12:26	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 12:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	109	70 - 130	%		
4-Bromofluorobenzene	97	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **DUP-2-W-190131**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-023

Date Collected: 01.31.19 00.00

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.09.19 23:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.09.19 23:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.09.19 23:40	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.09.19 23:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	90	70 - 135	%		
o-Terphenyl	90	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 12:45	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 12:45	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 12:45	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 12:45	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 12:45	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 12:45	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 12:45	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	70 - 130	%		
4-Bromofluorobenzene	92	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: MW-22-W-190201

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-024

Date Collected: 02.01.19 11.30

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.987	mg/L	02.10.19 00:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.10.19 00:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.10.19 00:00	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.10.19 00:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 13:05	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 13:05	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 13:05	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 13:05	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 13:05	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 13:05	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 13:05	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	108	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **MW-16-W-190201**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-025

Date Collected: 02.01.19 08.30

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.10.19 00:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.10.19 00:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.10.19 00:20	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.10.19 00:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	95	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 13:24	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 13:24	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 13:24	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 13:24	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 13:24	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 13:24	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 13:24	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	108	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: MW-23-W-190201

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-026

Date Collected: 02.01.19 10.05

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.10.19 00:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.10.19 00:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.10.19 00:41	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.10.19 00:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 13:43	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 13:43	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 13:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 13:43	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 13:43	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 13:43	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 13:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	109	70 - 130	%		
4-Bromofluorobenzene	97	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: **DUP-3-W-190201**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 613267-027

Date Collected: 02.01.19 00.00

Date Received: 02.01.19 15.30

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.10.19 01:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.10.19 01:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.10.19 01:01	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.10.19 01:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	83	70 - 135	%		
o-Terphenyl	82	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 14:03	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 14:03	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 14:03	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 14:03	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 14:03	U	1
Total Xylenes	1330-20-7	ND		0.000630	mg/L	02.13.19 14:03	U	
Total BTEX		ND		0.000367	mg/L	02.13.19 14:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	108	70 - 130	%		
4-Bromofluorobenzene	99	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: 3077945-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 3077945-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: KBU

% Moist:

Tech: KBU

Seq Number: 3077945

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total Dissolved Solids	1642222	ND	5.00	5.00	mg/L	02.04.19 14:17	U	1

Sample Id: 7671026-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 7671026-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: JYM

% Moist:

Tech: JYM

Seq Number: 3078113

Date Prep: 02.04.19 15.57

Subcontractor: SUB: E871002

Prep seq: 7671026

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	0.500	0.0280	mg/L	02.05.19 13:45	U	1

Sample Id: 7671418-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 7671418-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078598

Date Prep: 02.08.19 07.00

Prep seq: 7671418

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.08.19 12:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.08.19 12:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.08.19 12:03	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.08.19 12:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	114	70 - 135	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: 7671425-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 7671425-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3078601

Date Prep: 02.09.19 08.00

Prep seq: 7671425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	1.50	0.986	mg/L	02.09.19 20:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	1.50	0.911	mg/L	02.09.19 20:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	1.50	0.911	mg/L	02.09.19 20:40	U	1
Total TPH	PHC635	ND		0.911	mg/L	02.09.19 20:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	99	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Sample Id: 7671473-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 7671473-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078658

Date Prep: 02.08.19 10.00

Prep seq: 7671473

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.09.19 05:01	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.09.19 05:01	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.09.19 05:01	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.09.19 05:01	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.09.19 05:01	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	106	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

613267



GHD Services, INC- Midland, Midland, TX

CEMC Buckeye Compressor Station

Sample Id: 7671680-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 7671680-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: SCM

% Moist:

Tech: SCM

Seq Number: 3078985

Date Prep: 02.12.19 10.00

Prep seq: 7671680

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00200	0.000408	mg/L	02.13.19 10:49	U	1
Toluene	108-88-3	ND	0.00200	0.000367	mg/L	02.13.19 10:49	U	1
Ethylbenzene	100-41-4	ND	0.00200	0.000657	mg/L	02.13.19 10:49	U	1
m,p-Xylenes	179601-23-1	ND	0.00400	0.000630	mg/L	02.13.19 10:49	U	1
o-Xylene	95-47-6	ND	0.00200	0.000642	mg/L	02.13.19 10:49	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	70 - 130	%		
4-Bromofluorobenzene	94	70 - 130	%		

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Form 2 - Surrogate Recoveries

Project Name: CEMC Buckeye Compressor Station

Work Orders : 613267,

Project ID: 073014

Lab Batch #: 3078658

Sample: 7671473-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/09/19 03:28		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0317	0.0300	106	70-130
4-Bromofluorobenzene		0.0296	0.0300	99	70-130

Lab Batch #: 3078658

Sample: 7671473-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/09/19 03:47		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0318	0.0300	106	70-130
4-Bromofluorobenzene		0.0304	0.0300	101	70-130

Lab Batch #: 3078658

Sample: 613227-004 S / MS

Batch: 1 **Matrix:** Ground Water

Units: mg/L Date Analyzed: 02/09/19 04:06		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0308	0.0300	103	70-130
4-Bromofluorobenzene		0.0297	0.0300	99	70-130

Lab Batch #: 3078658

Sample: 613227-004 SD / MSD

Batch: 1 **Matrix:** Ground Water

Units: mg/L Date Analyzed: 02/09/19 04:25		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0316	0.0300	105	70-130
4-Bromofluorobenzene		0.0293	0.0300	98	70-130

Lab Batch #: 3078658

Sample: 7671473-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/09/19 05:01		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0317	0.0300	106	70-130
4-Bromofluorobenzene		0.0284	0.0300	95	70-130

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: CEMC Buckeye Compressor Station

Work Orders : 613267,

Project ID: 073014

Lab Batch #: 3078985

Sample: 7671680-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/13/19 09:15		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1,4-Difluorobenzene		0.0324	0.0300	108	70-130
4-Bromofluorobenzene		0.0291	0.0300	97	70-130

Lab Batch #: 3078985

Sample: 7671680-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/13/19 09:34		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1,4-Difluorobenzene		0.0325	0.0300	108	70-130
4-Bromofluorobenzene		0.0291	0.0300	97	70-130

Lab Batch #: 3078985

Sample: 613267-018 S / MS

Batch: 1 **Matrix:** Ground Water

Units: mg/L Date Analyzed: 02/13/19 09:53		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1,4-Difluorobenzene		0.0332	0.0300	111	70-130
4-Bromofluorobenzene		0.0297	0.0300	99	70-130

Lab Batch #: 3078985

Sample: 613267-018 SD / MSD

Batch: 1 **Matrix:** Ground Water

Units: mg/L Date Analyzed: 02/13/19 10:12		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1,4-Difluorobenzene		0.0333	0.0300	111	70-130
4-Bromofluorobenzene		0.0301	0.0300	100	70-130

Lab Batch #: 3078985

Sample: 7671680-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/13/19 10:49		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1,4-Difluorobenzene		0.0320	0.0300	107	70-130
4-Bromofluorobenzene		0.0282	0.0300	94	70-130

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: CEMC Buckeye Compressor Station

Work Orders : 613267,

Project ID: 073014

Lab Batch #: 3078598

Sample: 7671418-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 02/08/19 12:03	SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.2	9.98	112	70-135
o-Terphenyl		5.67	4.99	114	70-135

Lab Batch #: 3078598

Sample: 7671418-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 02/08/19 12:22	SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.9	9.98	129	70-135
o-Terphenyl		6.34	4.99	127	70-135

Lab Batch #: 3078598

Sample: 7671418-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 02/08/19 12:42	SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.9	9.99	129	70-135
o-Terphenyl		5.95	5.00	119	70-135

Lab Batch #: 3078598

Sample: 613267-001 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L	Date Analyzed: 02/08/19 13:20	SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.4	9.99	124	70-135
o-Terphenyl		6.01	4.99	120	70-135

Lab Batch #: 3078598

Sample: 613267-001 SD / MSD

Batch: 1 Matrix: Ground Water

Units: mg/L	Date Analyzed: 02/08/19 13:40	SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.9	9.98	129	70-135
o-Terphenyl		4.42	4.99	89	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: CEMC Buckeye Compressor Station

Work Orders : 613267,

Project ID: 073014

Lab Batch #: 3078601

Sample: 7671425-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/09/19 20:40		SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.91	9.99	99	70-135
o-Terphenyl		5.02	4.99	101	70-135

Lab Batch #: 3078601

Sample: 7671425-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/09/19 21:00		SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.3	9.98	123	70-135
o-Terphenyl		5.88	4.99	118	70-135

Lab Batch #: 3078601

Sample: 7671425-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: mg/L Date Analyzed: 02/09/19 21:20		SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.2	9.98	122	70-135
o-Terphenyl		5.98	4.99	120	70-135

Lab Batch #: 3078601

Sample: 613267-019 S / MS

Batch: 1 **Matrix:** Ground Water

Units: mg/L Date Analyzed: 02/09/19 22:00		SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.3	9.98	113	70-135
o-Terphenyl		5.45	4.99	109	70-135

Lab Batch #: 3078601

Sample: 613267-019 SD / MSD

Batch: 1 **Matrix:** Ground Water

Units: mg/L Date Analyzed: 02/09/19 22:20		SURROGATE RECOVERY STUDY			
TPH by SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.9	9.99	119	70-135
o-Terphenyl		5.77	4.99	116	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: CEMC Buckeye Compressor Station

Work Order #: 613267

Project ID: 073014

Analyst: SCM

Date Prepared: 02/08/2019

Date Analyzed: 02/09/2019

Lab Batch ID: 3078658

Sample: 7671473-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000408	0.100	0.0996	100	0.100	0.0987	99	1	70-130	25	
Toluene	<0.000367	0.100	0.0887	89	0.100	0.0870	87	2	70-130	25	
Ethylbenzene	<0.000657	0.100	0.0865	87	0.100	0.0845	85	2	70-130	25	
m,p-Xylenes	<0.000630	0.200	0.172	86	0.200	0.167	84	3	70-130	25	
o-Xylene	<0.000642	0.100	0.0870	87	0.100	0.0855	86	2	70-130	25	

Analyst: SCM

Date Prepared: 02/12/2019

Date Analyzed: 02/13/2019

Lab Batch ID: 3078985

Sample: 7671680-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000408	0.100	0.107	107	0.100	0.122	122	13	70-130	25	
Toluene	<0.000367	0.100	0.0930	93	0.100	0.104	104	11	70-130	25	
Ethylbenzene	<0.000657	0.100	0.0895	90	0.100	0.0997	100	11	70-130	25	
m,p-Xylenes	<0.000630	0.200	0.179	90	0.200	0.199	100	11	70-130	25	
o-Xylene	<0.000642	0.100	0.0884	88	0.100	0.0969	97	9	70-130	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: CEMC Buckeye Compressor Station

Work Order #: 613267

Project ID: 073014

Analyst: JYM

Date Prepared: 02/04/2019

Date Analyzed: 02/05/2019

Lab Batch ID: 3078113

Sample: 7671026-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	10.0	10.4	104	10.0	10.4	104	0	90-110	20	

Analyst: KBU

Date Prepared: 02/04/2019

Date Analyzed: 02/04/2019

Lab Batch ID: 3077945

Sample: 3077945-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total Dissolved Solids	<5.00	1000	941	94	1000	941	94	0	80-120	10	

Analyst: ARM

Date Prepared: 02/08/2019

Date Analyzed: 02/08/2019

Lab Batch ID: 3078598

Sample: 7671418-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<0.986	99.8	97.8	98	99.9	98.0	98	0	70-135	20	
Diesel Range Organics (DRO)	<0.911	99.8	112	112	99.9	108	108	4	70-135	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: CEMC Buckeye Compressor Station

Work Order #: 613267

Project ID: 073014

Analyst: ARM

Date Prepared: 02/09/2019

Date Analyzed: 02/09/2019

Lab Batch ID: 3078601

Sample: 7671425-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<0.986	99.8	89.4	90	99.8	86.9	87	3	70-135	20	
Diesel Range Organics (DRO)	<0.911	99.8	91.0	91	99.8	90.8	91	0	70-135	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: CEMC Buckeye Compressor Station

Work Order # : 613267

Project ID: 073014

Lab Batch ID: 3078658

QC- Sample ID: 613227-004 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 02/09/2019

Date Prepared: 02/08/2019

Analyst: SCM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000408	0.100	0.101	101	0.100	0.106	106	5	70-130	25	
Toluene	<0.000367	0.100	0.0887	89	0.100	0.0920	92	4	70-130	25	
Ethylbenzene	<0.000657	0.100	0.0871	87	0.100	0.0901	90	3	70-130	25	
m,p-Xylenes	<0.000630	0.200	0.173	87	0.200	0.178	89	3	70-130	25	
o-Xylene	<0.000642	0.100	0.0877	88	0.100	0.0900	90	3	70-130	25	

Lab Batch ID: 3078985

QC- Sample ID: 613267-018 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 02/13/2019

Date Prepared: 02/12/2019

Analyst: SCM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000408	0.100	0.123	123	0.100	0.122	122	1	70-130	25	
Toluene	<0.000367	0.100	0.102	102	0.100	0.0983	98	4	70-130	25	
Ethylbenzene	<0.000657	0.100	0.0933	93	0.100	0.0877	88	6	70-130	25	
m,p-Xylenes	<0.000630	0.200	0.185	93	0.200	0.173	87	7	70-130	25	
o-Xylene	<0.000642	0.100	0.0918	92	0.100	0.0864	86	6	70-130	25	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: CEMC Buckeye Compressor Station

Work Order # : 613267

Project ID: 073014

Lab Batch ID: 3078113

QC- Sample ID: 613063-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 02/05/2019

Date Prepared: 02/04/2019

Analyst: JYM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	256	200	471	108	200	470	107	0	90-110	20	

Lab Batch ID: 3078113

QC- Sample ID: 613244-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 02/05/2019

Date Prepared: 02/04/2019

Analyst: JYM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	7.98	10.0	17.7	97	10.0	17.8	98	1	90-110	20	

Lab Batch ID: 3078598

QC- Sample ID: 613267-001 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 02/08/2019

Date Prepared: 02/08/2019

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<0.986	99.9	90.9	91	99.8	114	114	23	70-135	20	F
Diesel Range Organics (DRO)	<0.911	99.9	105	105	99.8	122	122	15	70-135	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: CEMC Buckeye Compressor Station

Work Order # : 613267

Project ID: 073014

Lab Batch ID: 3078601

QC- Sample ID: 613267-019 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 02/09/2019

Date Prepared: 02/09/2019

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<0.986	99.8	85.7	86	99.9	88.4	88	3	70-135	20	
Diesel Range Organics (DRO)	<0.911	99.8	85.5	86	99.9	91.0	91	6	70-135	20	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: CEMC Buckeye Compressor Station

Work Order #: 613267

Lab Batch #: 3077945

Project ID: 073014

Date Analyzed: 02/04/2019 14:17

Date Prepared: 02/04/2019

Analyst: KBU

QC- Sample ID: 613097-001 D

Batch #: 1

Matrix: Waste Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	%RPD	RPD Limit	Flag
Analyte					
Total Dissolved Solids	2460	2520	2	10	

Lab Batch #: 3077945

Date Analyzed: 02/04/2019 14:17

Date Prepared: 02/04/2019

Analyst: KBU

QC- Sample ID: 613206-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	%RPD	RPD Limit	Flag
Analyte					
Total Dissolved Solids	84300	86100	2	10	

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)
Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit



Chain of Custody

Work Order No: 613267

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296

Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

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Project Manager:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Environmental Management Company
Address:	2135 S. Loop 250 W.	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX 79703	City, State ZIP:	Houston, Texas 77002
Phone:	713-734-3090	Email:	Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around		ANALYSIS REQUEST																Work Order Notes			
CEMC Buckeye Compressor Station		Routine ☒																					
Project Number: 073014		Rush:																					
P.O. Number:		Due Date:																					
Sampler's Name: <u>Sustan Nixon</u>																							
SAMPLE RECEIPT		Temp Blank: <u>Yes</u> No		Wet Ice: <u>Yes</u> No																		TAT starts the day received by the lab, if received by 4:30pm	
Temperature (°C): <u>0-3/0.2</u>		Thermometer ID: <u>102</u>																					
Received Intact: <u>Yes</u> No																							
Cooler Custody Seals: Yes <u>No</u> N/A		Correction Factor: <u>-0.1</u>																					
Sample Custody Seals: Yes <u>No</u> N/A		Total Containers:																					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (SW8021)	TPH (SW8015)	Chloride	TDS												Sample Comments	
mw-1-w-190129		GW	1-29-19	910		5	X	X															
mw-8-w-190129				1010																			
mw-2-w-190129				1110																			
mw-6-w-190129				1210																			
mw-7-w-190129				1310																			
Tw-13-w-190129				1420																			
mw-18-w-190129				1540																			
mw-4-w-190129				1650																			
mw-24-w-190130			1-30-19	900																			
mw-20-w-190130				1000																			

Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>[Signature]</u>	<u>[Signature]</u>	2-1-19 1530	2		
3			4		
5			6		

Chain of Custody



Inter-Office Shipment

Page 1 of 1

IOS Number **121739**

Date/Time: 02/01/19 15:49

Created by: Jessica Kramer

Please send report to: Debbie Simmons

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave, Midland TX 79701

Lab# To: **Houston**

Air Bill No.: 774375805480

E-Mail: debbie.simmons@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
613267-018	W	MW-21-W-190129	01/31/19 11:30	E300_CL	Chloride by EPA 300	02/07/19	02/28/19	DES	CL	
613267-018	W	MW-21-W-190129	01/31/19 11:30	SM2540C	TDS by SM2540C	02/07/19	02/07/19 11:30	DES	TDS	

Inter Office Shipment or Sample Comments:

Relinquished By:

Jessica Kramer

Jessica Kramer

Date Relinquished: 02/01/2019

Received By:

R. C. Vandenberghe

Rene Vandenberghe

Date Received: 02/02/2019 10:00

Cooler Temperature: 3.2



XENCO Laboratories



Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 121739

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : hou-068

Sent By: Jessica Kramer

Date Sent: 02/01/2019 03:49 PM

Received By: Rene Vandenberghe

Date Received: 02/02/2019 10:00 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

R. C. Vandenberghe
Rene Vandenberghe

Date: 02/02/2019



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: GHD Services, INC- Midland

Date/ Time Received: 02/01/2019 03:30:00 PM

Work Order #: 613267

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes TDS and Chloride (water sample) sent to Xenco Stafford
#18 Water VOC samples have zero headspace?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: BT

PH Device/Lot#: A032690

Checklist completed by:	<u>Brianna Teel</u>	Date: <u>02/01/2019</u>
	Brianna Teel	
Checklist reviewed by:	<u>Debbie Simmons</u>	Date: <u>02/05/2019</u>
	Debbie Simmons	

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