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A Subsidiary of Occidental Petroleum Corporation

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June 8, 2021

Mr. Robert Hamlet
District 2
New Mexico Oil Conservation Division
811 South First Street
Artesia, NM 88210

Re Submittal of 2020 Annual Groundwater Monitoring Report
Indian Basin Gas Plant AP-107
Eddy County, New Mexico

Dear Mr. Hamlet:

Glenn Springs Holdings, Inc (a subsidiary of Occidental Petroleum Corporation), is submitting the attached Annual Groundwater Monitoring Report for the Indian Basin Gas Plant (AP-107) located in Eddy County, New Mexico. The New Mexico Oil Conservation Division (NMOCD) requires groundwater monitoring of 15 wells at the site and submittal of an annual report documenting the groundwater monitoring activities.

If you should have any questions, please contact me at (713) 366-5872 or suda_arakere@oxy.com.

Sincerely,

Suda Arakere
VP Environmental Affairs
Glenn Springs Holdings, Inc.



Glenn Springs Holdings, Inc. A subsidiary of
Occidental Petroleum Corporation

2020 ANNUAL GROUNDWATER MONITORING REPORT

Indian Basin Gas Plant
Eddy County, New Mexico

June 2021

2020 Annual Groundwater Monitoring Report

**2020 ANNUAL
GROUNDWATER
MONITORING REPORT**

Indian Basin Gas Plant

Eddy County, New Mexico



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ACRONYMS AND ABBREVIATIONS

BTEX	Benzene, Toluene, Ethylbenzene, Xylene
IBGP	Indian Basin Gas Plant
IBRP	Indian Basin Remediation Project
NMOCD	New Mexico Oil Conservation Division
OXY	OXY USA WTP Limited Partnership
Site	Indian Basin Gas Plant
TDS	Total Dissolved Solids

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EXECUTIVE SUMMARY

This report documents the results from the June 2020 annual groundwater monitoring event and the November 2020 semi-annual gauging event and provides historical groundwater monitoring documentation. The 2020 annual groundwater monitoring event was conducted on June 9 and 10, 2020 and included the gauging of depth to groundwater and non-aqueous phase liquid thickness in 15 monitoring wells (seven in the Shallow Zone and eight in the Lower Queen) and sampling of monitoring wells for BTEX, TDS and chloride. On November 3 and 4, 2020, semi-annual gauging of depth to groundwater and non-aqueous phase liquid thickness of 15 monitoring wells (seven in the Shallow Zone and eight in the Lower Queen) was conducted.

Liquid-level measurements obtained from each well in June 2020 and November 2020 and the surveyed well elevations were used to calculate groundwater elevations, with density corrections to the water level made where condensate was present. The resulting elevation data was used to generate groundwater piezometric contour maps for the Shallow Zone and Lower Queen aquifers. Review of these maps and the elevation data indicate Shallow Zone and Lower Queen groundwater flow was generally consistent with patterns observed in previous years. Flow in the Shallow Zone is to the southeast at an approximate gradient of 0.016 ft/ft, and flow in the Lower Queen is generally to the northwest at an approximate gradient of 0.00055 ft/ft.

In June 2020, groundwater samples were collected from five Shallow Zone monitoring wells (MW-14, MW-45, MW-46, MW-49, and MW-106) and five Lower Queen monitoring wells (MW-66, MW-70, MW-88, MW-111 and MW-127). The purging and sampling techniques utilized low-flow procedures which were approved and implemented in 2003. Shallow monitoring wells MW-77 and MW-126 were not sampled because they did not contain sufficient volume of water for sampling. Lower Queen monitoring wells MW-58, MW-81 and MW-113 were not sampled due the presence of condensate in these monitoring wells. The analytical results indicate that BTEX concentrations in the sampled Shallow Zone monitoring wells were below NMOCD regulatory levels except in MW-49 (Benzene 15.4 µg/L). BTEX concentrations in the five sampled Lower Queen wells were below NMOCD regulatory limits except very low concentrations of toluene (well below the NMOCD regulatory limits) were detected in MW-70, 88 and 127. In general, TDS and chloride concentrations in the sampled Shallow Zone monitoring wells were within historical levels, and TDS and chloride concentrations in well MW-106 was below NMOCD the regulatory limits. The TDS in MW-14 (1,360 mg/L), MW-45 (5,230 mg/L), MW-46 (1,630 mg/L) and MW-49 (4,000 mg/L) exceeded the NMOCD regulatory limit of 1,000 mg/L. Chloride in MW-49 (491 mg/L) exceeded the NMOCD regulatory limit of 250 mg/L. The TDS and chloride concentrations in the sampled Lower Queen wells were all below NMOCD regulatory limits.

Groundwater monitoring at the site will continue to be conducted according to the requirements outlined in the February 20, 2009 NMOCD letter. Based on the current program schedule, the next annual groundwater monitoring event will be conducted in May 2021 and the semi-annual groundwater gauging event will be conducted in November 2021. An annual report will be prepared at the conclusion of each Fall groundwater gauging event and will be submitted to the NMOCD.

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INTRODUCTION

Arcadis prepared this Annual Groundwater Monitoring report on behalf of OXY USA WTP Limited Partnership (Oxy) for the Indian Basin Remediation Project (IBRP) at the Indian Basin Gas Plant located in Eddy County, New Mexico. This report presents the results of the June 2020 annual groundwater monitoring event, the semi-annual groundwater gauging event conducted in November 2020 and includes historical groundwater monitoring data. This report is prepared in accordance with the groundwater monitoring requirements outlined in correspondence by the New Mexico Energy, Minerals, and Natural Resources Department, New Mexico Oil Conservation Division (NMOCD) to Marathon Oil Company dated February 20, 2009 prior to OXY operating the facility.

BACKGROUND

The IBGP (site) is located approximately 20 miles northwest of Carlsbad, New Mexico, as shown on Figure 1. The site is situated in Township 21 South, Eddy County, and occupies portions of Range 23 East (Sections 13, 23, 24, 25, and 26) and Range 24 East (Sections 19 and 30). Remediation efforts at the site were initiated in April 1991 and were designed to remove separate-phase petroleum hydrocarbons present in the subsurface, primarily condensate.

The geology underlying the site is comprised of two distinct zones, both with saturated and unsaturated strata. The geologic units are referred to as the Shallow Zone and the Lower Queen. Prior to March 2003, there were a total of 150 wells (78 Shallow Zone and 72 Lower Queen) and two shallow sumps present at the site related to the Indian Basin Remediation Project (IBRP). However, with NMOCD approval, 39 Shallow Zone wells were plugged and abandoned in March 2003, reducing the well total to 111 wells and two shallow sumps. The remaining wells and two sumps were used for a combination of groundwater monitoring, groundwater and condensate recovery, treated groundwater infiltration and condensate vapor extraction.

In May 2008, a report titled Evaluation of Natural Attenuation, Indian Basin Remediation Project, Eddy County, New Mexico was submitted to the NMOCD. The report described the natural attenuation processes occurring at the site and recommended closure of the IBRP. In addition, a letter with the reference title Proposed Indian Basin Remediation Project Well Plugging Program was submitted to the NMOCD in February 2009. The NMOCD responded to the May 2008 report and February 2009 plugging program letter in correspondence dated February 20, 2009. In the February 20, 2009 correspondence, the NMOCD stated that the report and well plugging request were substantially acceptable, and conditionally approved the discontinuance of active remediation at the site. However, the NMOCD required at least annual groundwater monitoring for BTEX, TDS and chloride for a total of 15 wells, and semi-annual gauging of depth to groundwater and non-aqueous phase liquid thickness. In addition, the NMOCD required that an annual groundwater monitoring report must be submitted. The NMOCD correspondence is included in Appendix E.

In March and April 2009, a total of 95 wells (including the two shallow sumps) were plugged and abandoned. Three water supply wells (SW-1, SW-2 and SW-3) originally included in the proposed plugging program were not plugged, because they are needed to supply water for site operations. A

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report documenting the well plugging activities was submitted to the NMOCD in June 2009. The NMOCD approved the plugging report through email correspondence dated June 17, 2009 (Appendix E).

Table 1 lists the 15 wells remaining in the groundwater monitoring program and monitoring requirements. Figure 2 depicts the site layout, including the locations of remaining Shallow Zone and Lower Queen wells. Additional details regarding local and regional geology and hydrogeology are presented in the report titled Comprehensive Site Characterization Report for the IBRP, submitted to the NMOCD in December 1998.

GROUNDWATER AND CONDENSATE GAUGING

Groundwater gauging was conducted in June 2020 and November 2020. The gauging events consisted of collecting liquid-level measurements from the wells listed in Table 1 for both the Shallow Zone and Lower Queen. The results of the gauging events as well as precipitation recharge (rainfall) are discussed in the following sections. A summary of the June 2020 groundwater gauging results is provided in Table 2. The November 2020 groundwater gauging results are summarized in Table 3. Historical groundwater gauging data for the remaining monitoring wells at the site are presented in Appendix A.

Shallow Zone Aquifer

Seven monitoring wells completed in the Shallow Zone were gauged during the June 2020 and November 2020 events. The liquid-level measurements and the top of casing elevations for the wells were then used to calculate the groundwater elevation at each well. Density corrections to the water level elevations were made for wells containing condensate.

From December 2019 to June 2020, groundwater levels (including density corrections for condensate if present) increased in Shallow Zone wells MW-14 (0.87 feet [ft]), MW-45 (1.11 ft.), MW-46 (1.05 ft), MW-77 (7.78 ft.), MW-106 (1.30 ft) and MW-126 (11.92 ft.). The groundwater levels decreased from November 2019 to June 2020 for Shallow Zone well MW-49 (0.28 ft.). During the June 2020 event, measurable condensate was not detected in Shallow Zone monitoring wells. Historically, MW-126 has had condensate thicknesses ranging from 0 to 3.96 feet.

From June to November 2020, groundwater levels (including density corrections for condensate, if present) increased in Shallow Zone wells MW-14 (1.69 ft.), MW-45 (1.47 ft.), MW-46 (1.48 ft.), MW-49 (1.42 ft.) and MW-126 (2.68 ft.). The groundwater levels in MW-77 and MW-106 decreased from June to November 2020 by 9.88 ft and 0.39 ft, respectively. During the November 2020 gauging event, measurable condensate was detected in one Shallow Zone monitoring well MW-126. The condensate thickness measured in MW-126 was 0.17 feet.

Groundwater elevation contour maps were prepared based on the June 2020 and November 2020 groundwater elevation measurements (Figures 3 and 7). As shown on Figures 3 and 7, the observed groundwater flow direction in the Shallow Zone is to the southeast at an approximate gradient of 0.016 ft./ft. The flow direction and gradient are generally consistent with historical patterns.

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Lower Queen Aquifer

The eight monitoring wells completed in the Lower Queen were gauged during the June 2020 and November 2020 gauging events. The liquid-level measurements and the top of casing elevations for the wells were then used to calculate the groundwater elevation at each well. Density corrections to the water level were made as required where condensate was present.

During the June 2020 gauging event, trace condensate was observed in Lower Queen monitoring well MW-113. MW-58 and MW-81 had condensate thicknesses of 0.01 feet and 0.15 feet, respectively. Historically, condensate thickness ranged from 0 to 5.26 feet in MW-58, 0 to 12.08 feet in MW-81 and 0 to 0.88 feet in MW-113. The water level elevation in MW-58 has experienced broad fluctuations over the last part of 2015 to the most recent gauging in 2020. As discussed in earlier annual reports, the cause of this fluctuation is possibly due to measurement interference created by biomass in the well which was reported historically for the gauging events conducted in 2001. During the November 2020 gauging event, trace condensate was observed in monitoring well MW-113. MW-58 and MW-81 contained condensate thicknesses of 0.17 feet and 0.04 feet, respectively.

Groundwater elevation contour maps were prepared based on the June 2020 and November 2020 groundwater elevation measurements (Figures 4 and 8). As shown on Figures 4 and 8, the observed groundwater flow direction in the Lower Queen is generally to the northwest at an approximate gradient of 0.00055 ft./ft. The flow direction and gradient are generally consistent with historical patterns.

Precipitation Recharge

Table 4 summarizes monthly rainfall for the area during 2020 along with historical precipitation since 1994. From 1994 through 2006, the precipitation records are from the Indian Basin Gas Plant. For the years 2007 through 2020, the precipitation records are from a weather station located in Carlsbad, New Mexico. The site has historically received the highest amounts of precipitation between the months of June and October. The average annual rainfall measured over the past five years (2016 to 2020) is approximately 11.56 inches which is only slightly above the long-term average for the area of approximately 11.54 inches per year. During 2020, data from the Carlsbad station indicated that the highest amount of precipitation was received in March (2.09 inches) with a total of 4.40 inches (7.14 inches below the long-term average) reported for the year. The 4.40 inches of rainfall in 2020 was the lowest recorded in the last 10 years (5.84 inches were recorded in 2011).

GROUNDWATER SAMPLING AND ANALYSIS

In a letter dated February 20, 2009 (Appendix D), the NMOCD required annual groundwater monitoring for BTEX, TDS and chloride for seven Shallow Zone and eight Lower Queen monitoring wells. Arcadis personnel conducted the 2020 annual groundwater sampling event at the site on June 9 and June 10, 2020. All samples were collected using low flow purging and sampling techniques.

The groundwater samples collected were placed in laboratory-provided sample containers appropriate for the specified laboratory analysis. Each sample container was properly labelled with a unique sample identification number and placed on ice in a laboratory-provided sample cooler and shipped by overnight delivery to Eurofins Test America laboratory in Houston for analysis. A properly completed chain-of-

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custody (COC) form accompanied each cooler containing the samples. The COC showed the sample number, the time of collection, the sample preservative and the analyses to be performed.

Table 5 summarizes the BTEX, chloride and TDS analytical results for the June 2020 event. Summaries of historical BTEX, TDS and chloride analytical data are presented in Appendix B. The complete laboratory analytical report for the annual groundwater sampling event in 2020 is presented in Appendix C. GHD performed the data validation of the laboratory data for the June 2020 sampling event. A copy of the data validation report is contained in Appendix D.

The groundwater monitoring analytical results for both the Shallow Zone and Lower Queen are discussed in the following sections.

Shallow Zone Aquifer

BTEX Analysis

Groundwater samples were collected from five Shallow Zone monitoring wells (MW-14, MW-45, MW-46, MW-49 and MW-106) for the June 2020 sampling event. MW-77 and MW-126 were not sampled because they did not contain sufficient volume of water for sampling. The results of the BTEX laboratory analysis of the Shallow Zone groundwater samples are summarized as follows:

- Benzene was not detected in four of the monitoring wells sampled (MW-14, MW-45, MW-46 and MW-106); and
- Benzene was detected in MW-49 at a concentration of 15.4 µg/L which is above the NMOCD regulatory limit of 10 µg/L.

Figure 5 illustrates the distribution of dissolved BTEX compounds in the Shallow Zone aquifer in June 2020. As indicated by the historical data in Appendix B, BTEX concentrations in this water-bearing zone have generally remained stable or declined over time.

Wet Chemistry Analysis

In addition to BTEX analysis, groundwater samples collected in June 2020 from the Shallow Zone monitoring wells were analyzed for TDS and chloride. The results for TDS and chloride are summarized as follows:

- TDS concentration in MW-106 (383 mg/L) was below the NMOCD standard and within the historical concentration range;
- TDS concentrations were detected above the NMOCD standard in the remaining four Shallow Zone monitoring wells sampled (MW-14, MW-45, MW-46 and MW-49). The TDS concentration in MW-14 (1,360 mg/L) and MW-46 (1,630 mg/L) declined significantly from the levels detected in 2019 and were back within the historical ranges for these wells of 1,000 mg/L to 1,610 mg/L for MW-14 and 490 mg/L to 2,300 mg/L for MW-46. The TDS concentration in MW-45 (5,230 mg/L) was within the historical range (2,540 to 5,990 mg/L) for this well. The TDS concentration in MW-49 (4,000 mg/L) was within the historical range (from 2,600 to 5,220 mg/L) recorded for this well;

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- Chloride concentration in MW-106 (3.26 mg/L) was below the NMOCD standard and within historic ranges; and
- Chloride concentration was detected above the NMOCD standard in MW-49 (491 mg/L which represents an increase in concentration from 285 mg/L in 2019).

A summary of the TDS and chloride analytical results is provided in Table 5. A Copy of the analytical laboratory report is included in Appendix C. Figure 5 depicts TDS and chloride concentrations in the wells sampled in June 2020.

Lower Queen Aquifer

BTEX Analysis

Groundwater samples were collected from five Lower Queen monitoring wells (MW-66, MW-70, MW-88, MW-111 and MW-127) in June 2020. Samples were not collected from MW-58, MW-81, and MW-113 because they contained condensate. No benzene, ethylbenzene or xylenes concentrations were detected in the five sampled Lower Queen wells. However, toluene was detected in MW-70, MW-88 and MW-127 in very low concentrations of 0.837 µg/L, 0.704 µg/L and 0.927 µg/L, respectively, well below the OCD regulatory limit for toluene of 750 µg/L. Figure 6 illustrates the distribution of dissolved BTEX compounds in the Lower Queen in June 2020.

Wet Chemistry Analysis

In addition to BTEX analysis, groundwater samples were collected in June 2020 from the Lower Queen monitoring wells MW-66, MW-70, MW-88, MW-111 and MW-127 and analyzed for TDS and chlorides. The results of the TDS and chloride laboratory analyses for the Lower Queen monitoring wells are summarized as follows:

- TDS concentrations were below the NMOCD standard of 1,000 mg/L in all samples collected from the Lower Queen monitoring wells. The TDS of 1,750 mg/L reported for MW-70 in June 2019 was discussed in the 2019 annual report as an anomaly and a significantly departure from the historical range for this well of approximately 500 mg/L or less as well as a departure from the historical concentrations in the Lower Queen Aquifer. The TDS concentration in MW-70 will continue to be closely scrutinized in future sampling events to evaluation trends. For the June 2020 sampling event, the TDS concentrations for the Lower Queen monitoring wells ranged from 394 mg/L in MW-70 to 962 mg/L in MW-88; and
- Chloride concentrations were below the NMOCD standard of 250 mg/L in all five samples collected from the Lower Queen monitoring wells. The chloride concentrations ranged from 8.61 mg/L in MW-70 to 62.7 mg/L in MW-111.

A summary of the laboratory analysis data for TDS and chloride is provided in Table 5. A copy of the analytical laboratory report is included in Appendix C. Figure 6 depicts TDS and chlorides in the Lower Queen monitoring wells sampled in June 2020.

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SUMMARY

Groundwater Monitoring

Results of the annual groundwater monitoring event conducted in June 2020 and the groundwater gauging event conducted in November 2020 indicated similar groundwater conditions present as in previous years. Wells containing measurable condensate in June and November 2020 were consistent with historical results. Analytical results for BTEX, chloride and TDS were similar to the historical data for the sampled wells. MW-70 (Lower Queen Aquifer), which contained a TDS concentration of 1,750 mg/L in 2019 (well above the historical concentrations for this well and the Lower Queen Aquifer), had TDS of 394 mg/L in 2020 which is consistent with the longer-term historical data.

Groundwater Monitoring Plan

Groundwater monitoring will continue at the Indian Basin Gas Plant in accordance with the requirements outlined in the February 20, 2009 NMOCD letter (Appendix E) including annual groundwater monitoring for BTEX, TDS and chloride for the seven Shallow Zone and eight Lower Queen monitoring wells at the site, and semi-annual gauging of depth to groundwater and non-aqueous phase liquid thickness. In addition, an annual groundwater monitoring report will be submitted to the NMOCD. Based on the current program schedule, the annual groundwater monitoring event for 2021 is planned to be conducted in May and the semi-annual groundwater gauging event conducted in November. The annual report will be prepared and submitted to the NMOCD during the first half of 2022.

TABLES

Table 1. Groundwater Monitoring Plan
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant
 Eddy County, New Mexico.

Shallow Zone Sampling Schedule

Well ID	Spring		Fall
	Annual	Analytical Parameters Annual	Semi-Annual
MW-14	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-45	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-46	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-49	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-77	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-106	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-126	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging

Lower Queen Sampling Schedule

Well ID	Spring		Fall
	Annual	Analytical Parameters Annual	Semi-Annual
MW-58	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-66	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-70	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-81	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-88	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-111	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-113	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-127	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging

Notes:

TDS Total Dissolved Solids
 BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes

Table 2. Summary of Groundwater Gauging Results, June 2020
 Semi-Annual Groundwater Gauging Event
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico.

Well Number	Well Diameter	Northing	Easting	Total Depth From TOC	Top of Casing	Top of Casing Stickup	DTW	DTP	PT	PT x 0.73	ADJ DTW	WL Elev	Comments
	(in)	NAD 27 Con hddd,mm',ss.s"		(ft)	(ft amsl)	(ft agl)	(feet)	(feet)	(feet)	(feet)	(feet)	(ft amsl)	
Shallow Zone													
MW-14	4	32 27 44.3	104 34 00.9	25.22	3803.61	2.08	22.02	---	---	---	---	3781.59	
MW-45	2	32 28 01.1	104 34 08.7	26.35	3808.68	1.60	20.06	---	---	---	---	3788.62	
MW-46	4	32 27 56.7	104 34 05.8	19.81	3805.54	1.90	18.05	---	---	---	---	3787.49	
MW-49	2	32 27 57.6	104 33 59.9	27.69	3805.61	1.90	20.94	---	---	---	---	3784.67	
MW-77	7.875	32 27 27.3	104 33 25.0	82.25	3775.48	2.38	80.50	---	---	---	---	3694.98	
MW-106	4	32 26 57.0	104 32 26.4	95.70	3721.97	2.61	89.50	---	---	---	---	3632.47	
MW-126	4	32 27 48.2	104 33 49.9	66.58	3796.28	3.33	65.52	---	---	---	---	3730.76	
Lower Queen													
MW-58	7.875	32 28 04.5	104 33 28.5	NR	3824.07	3.48	199.35	199.34	0.01	0.01	199.34	3624.73	Trace condensate
MW-66	4	32 28 19.1	104 33 28.5	NR	3828.98	2.60	206.12	---	---	---	---	3622.86	
MW-70	4	32 27 18.8	104 34 05.5	NR	3822.57	2.71	199.04	---	---	---	---	3623.53	
MW-81	7.875	32 28 04.3	104 33 19.5	NR	3817.03	3.98	193.77	193.62	0.15	0.11	193.66	3623.37	LNAPL on probe
MW-88	4	32 28 25.3	104 32 55.6	178.93	3789.70	2.71	166.58	---	---	---	---	3623.12	
MW-111	4	32 28 15.9	104 34 06.1	NR	3824.44	1.85	202.15	---	---	---	---	3622.29	
MW-113	7.875	32 27 16.3	104 33 32.1	NR	3772.67	1.82	149.74	149.74	0.00	0.00	149.74	3622.93	Trace condensate
MW-127	8.25	32 28 00.8	104 33 58.8	NR	3825.17	2.63	202.39	---	---	---	---	3622.78	

Foot Notes: TOC Top of Casing
 DTW Depth to Water
 DTP Depth to Product
 PT Product Thickness
 ADJ DTW Adjusted Depth to Water
 WL Water Level

Table 3. Summary of Groundwater Gauging Results, November 2020
Semi-Annual Groundwater Gauging Event
OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico.

Well Number	Well Diameter	Northing	Easting	Total Depth From TOC	Top of Casing	Top of Casing Stickup	DTW	DTP	PT	PT x 0.73	ADJ DTW	WL Elev	Comments
	(in)	NAD 27 Con hddd,mm',ss.s"		(ft)	(ft amsl)	(ft agl)	(feet)	(feet)	(feet)	(feet)	(feet)	(ft amsl)	
Shallow Zone													
MW-14	4	32 27 44.3	104 34 00.9	24.13	3803.61	2.08	23.71	---	---	---	---	3779.90	
MW-45	2	32 28 01.1	104 34 08.7	26.33	3808.68	1.60	21.53	---	---	---	---	3787.15	
MW-46	4	32 27 56.7	104 34 05.8	19.90	3805.54	1.90	19.53	---	---	---	---	3786.01	
MW-49	2	32 27 57.6	104 33 59.9	26.72	3805.61	1.90	22.36	---	---	---	---	3783.25	
MW-77	7.875	32 27 27.3	104 33 25.0	82.26	3775.48	2.38	70.62	---	---	---	---	3704.86	
MW-106	4	32 26 57.0	104 32 26.4	95.94	3721.97	2.61	89.11	---	---	---	---	3632.86	
MW-126	4	32 27 48.2	104 33 49.9	NR	3796.28	3.33	68.32	68.15	0.17	0.12	68.20	3728.08	Light yellow LNAPL on probe
Lower Queen													
MW-58	7.875	32 28 04.5	104 33 28.5	NR	3824.07	3.48	200.90	200.63	0.27	0.20	200.70	3623.37	Light yellow LNAPL on probe
MW-66	4	32 28 19.1	104 33 28.5	NR	3828.98	2.60	206.36	---	---	---	---	3622.62	
MW-70	4	32 27 18.8	104 34 05.5	NR	3822.57	2.71	199.17	---	---	---	---	3623.40	
MW-81	7.875	32 28 04.3	104 33 19.5	NR	3817.03	3.98	193.64	193.60	0.04	0.03	193.61	3623.42	Light yellow LNAPL on probe w/bio
MW-88	4	32 28 25.3	104 32 55.6	178.17	3789.70	2.71	167.06	---	---	---	---	3622.64	
MW-111	4	32 28 15.9	104 34 06.1	NR	3824.44	1.85	202.62	---	---	---	---	3621.82	
MW-113	7.875	32 27 16..3	104 33 32.1	NR	3772.67	1.82	149.52	149.52	0.00	0.00	149.52	3623.15	Trace Condensate
MW-127	8.25	32 28 00.8	104 33 58.8	NR	3825.17	2.63	202.76	---	---	---	---	3622.41	

Foot Notes: TOC Top of Casing
DTW Depth to Water
DTP Depth to Product
PT Product Thickness
ADJ DTW Adjusted Depth to Water
WL Water Level

Table 4. Summary of Historical Rainfall with Monthly Rainfall During 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant
 Eddy County, New Mexico.

Historical Rainfall	
Year	Rainfall (inches)
1994	9.31
1995	7.84
1996	16.60
1997	10.65
1998	3.95
1999	4.70
2000	9.75
2001	6.02
2002	12.70
2003	7.58
2004	26.96
2005	11.16
2006	17.49
2007	19.02*
2008	9.39*
2009	11.96*
2010	17.32*
2011	5.84*
2012	11.14*
2013	11.38*
2014	23.53*
2015	16.49*
2016	11.96*
2017	12.38*
2018	11.16*
2019	12.76*
Monthly Rainfall During 2020	
Month	Rainfall (inches)
January	0.22
February	0.41
March	2.09
April	0.00
May	0.06
June	0.55
July	0.39
August	0.48
September	0.13
October	0.01
November	0.26
December	0.00
2020 Annual Total	4.60

Source: Rain gauge at Indian Basin Gas Plant
 *Changed in 2007 to a station
 located in Carlsbad, NM

Table 5. Summary of Analytical Results, June 2020
Annual Groundwater Sampling Event
OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico.

Well ID	Sample Date	Analytical Parameters					
		Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	TDS (mg/L)	Chloride (mg/L)
OCD Regulatory Limits		10	750	750	620	1,000	250
Shallow Zone Wells							
MW-14	6/10/2020	<0.56	1.58	<1.29	<1.98	1,360	132
MW-45	6/10/2020	<0.56	0.934	<1.29	<1.98	5,230	150
MW-46	6/10/2020	<0.56	1.18	<1.29	<1.98	1,630	125
MW-49	6/10/2020	15.4	1.02	<1.29	<1.98	4,000	491
MW-77		Not Sampled - not enough water to collect sample					
MW-106	6/9/2020	<0.56	0.813	<1.29	<1.98	383	3.26
MW-126		Not Sampled - well contained condensate					
Lower Queen Wells							
MW-58		Not Sampled - well contained condensate					
MW-66	6/9/2020	<0.56	<0.55	<1.29	<1.98	920	11.4
MW-70	6/9/2020	<0.56	0.837	<1.29	<1.98	394	8.61
MW-81		Not Sampled - well contained condensate					
MW-88	6/9/2020	<0.56	0.704	<1.29	<1.98	962	25.5
MW-111	6/9/2020	<0.56	<0.55	<1.29	<1.98	768	62.7
MW-113		Not Sampled - well contained condensate					
MW-127	6/10/2020	<0.56	0.927	<1.29	<1.98	743	41.9
DUP-1 (Parent MW-127)	6/10/2020	<0.56	0.569	<1.29	<1.98	796	41.7

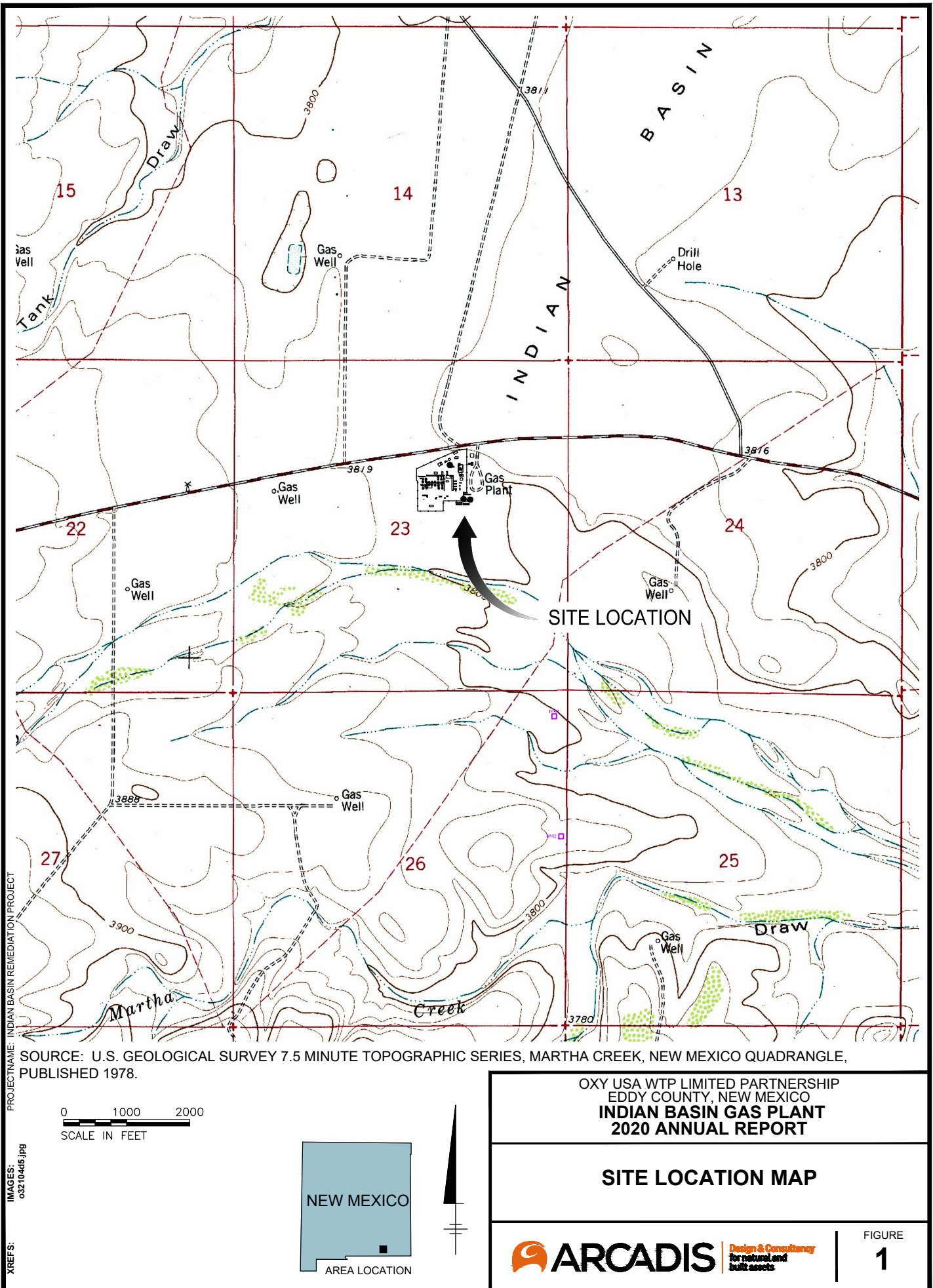
Notes:

ug/L	Micrograms per liter
mg/L	Milligrams per liter
<5	Compound below the laboratory detection limit
6	Indicates result above the detection limit and below the NMOCD standard
16	Indicates result at/above the NMOCD standard

FIGURES



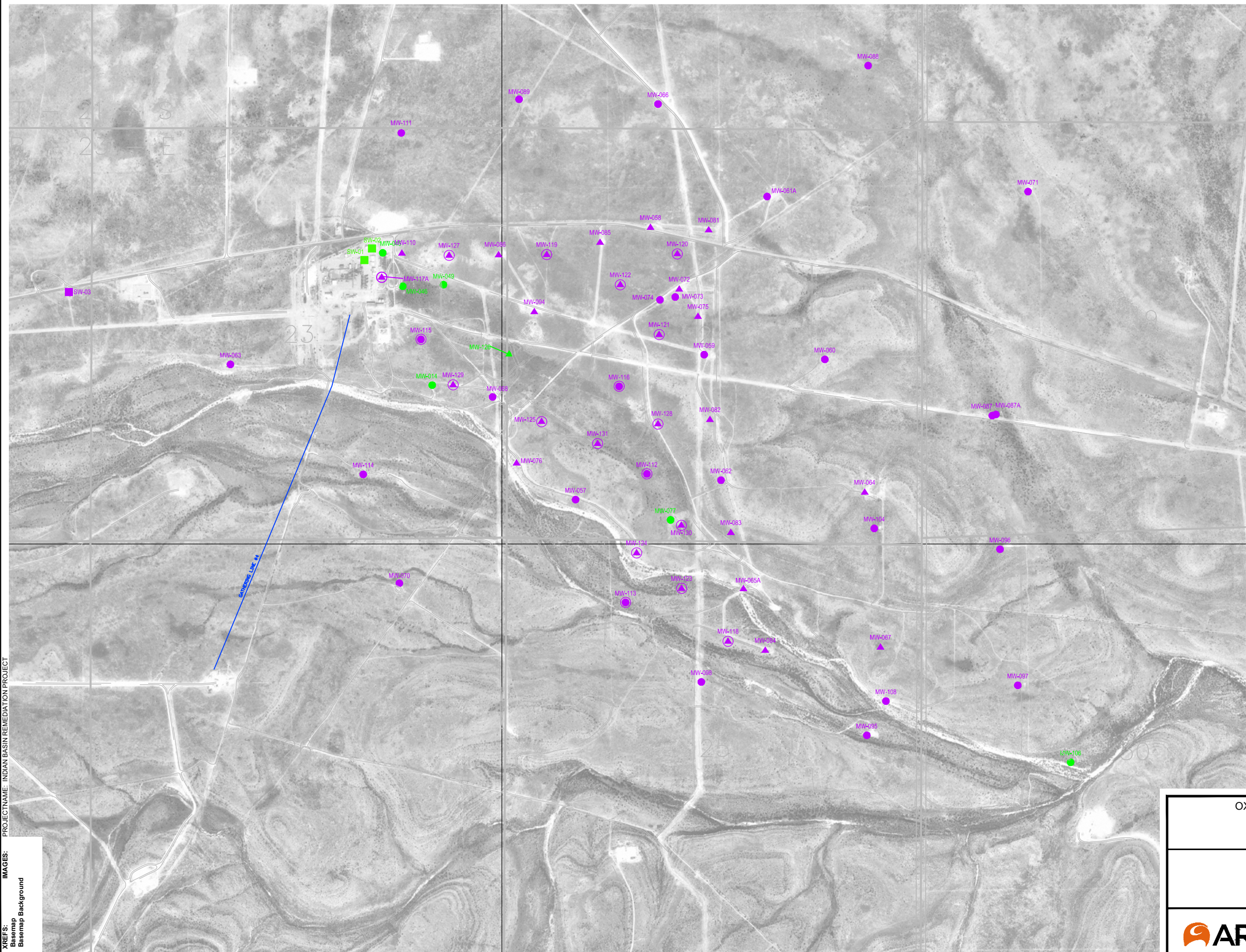
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 AM BY: MCKEOUGH, CAROL XREFS: 032104d5.jpg



CITY: Milwaukee, WI GROUP: ENV DB: C. McKeough, LD: PIC: M. Sanford, PM: H. McConnell, TM: A. Sides, TR: LYRON*OFF=REF* UN: 31-009-00471
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XREFS: IMAGES: PROJECTNAME: INDIAN BASIN REMEDIATION PROJECT

Basemap
Basemap Background



0 1200' 2400'
GRAPHIC SCALE

Explanation

- Monitoring Well
- Recovery Well
- Industrial Supply Well
- Phase I Infill Wells Installed During July, 1999
- Phase II Infill Wells Installed During August, 1999
- Color Denotes Well Completion As Indicated Below:
 - Green Completed In Shallow Zone
 - Purple Completed In Lower Queen

Base map prepared from Martha Creek Quadrangle, New Mexico U.S. Geological Survey 7½ Minute Topographic and Orthophotoquad Series, Published 1978, @ a scale of 1" = 2,000'.

OXY USA WTP LIMITED PARTNERSHIP
EDDY COUNTY, NEW MEXICO
**INDIAN BASIN GAS PLANT
2020 ANNUAL REPORT**

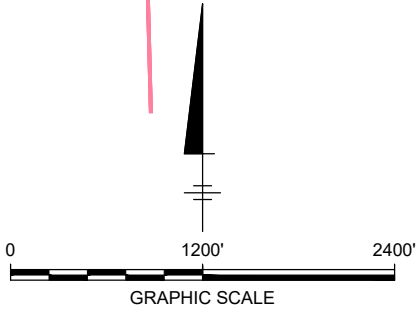
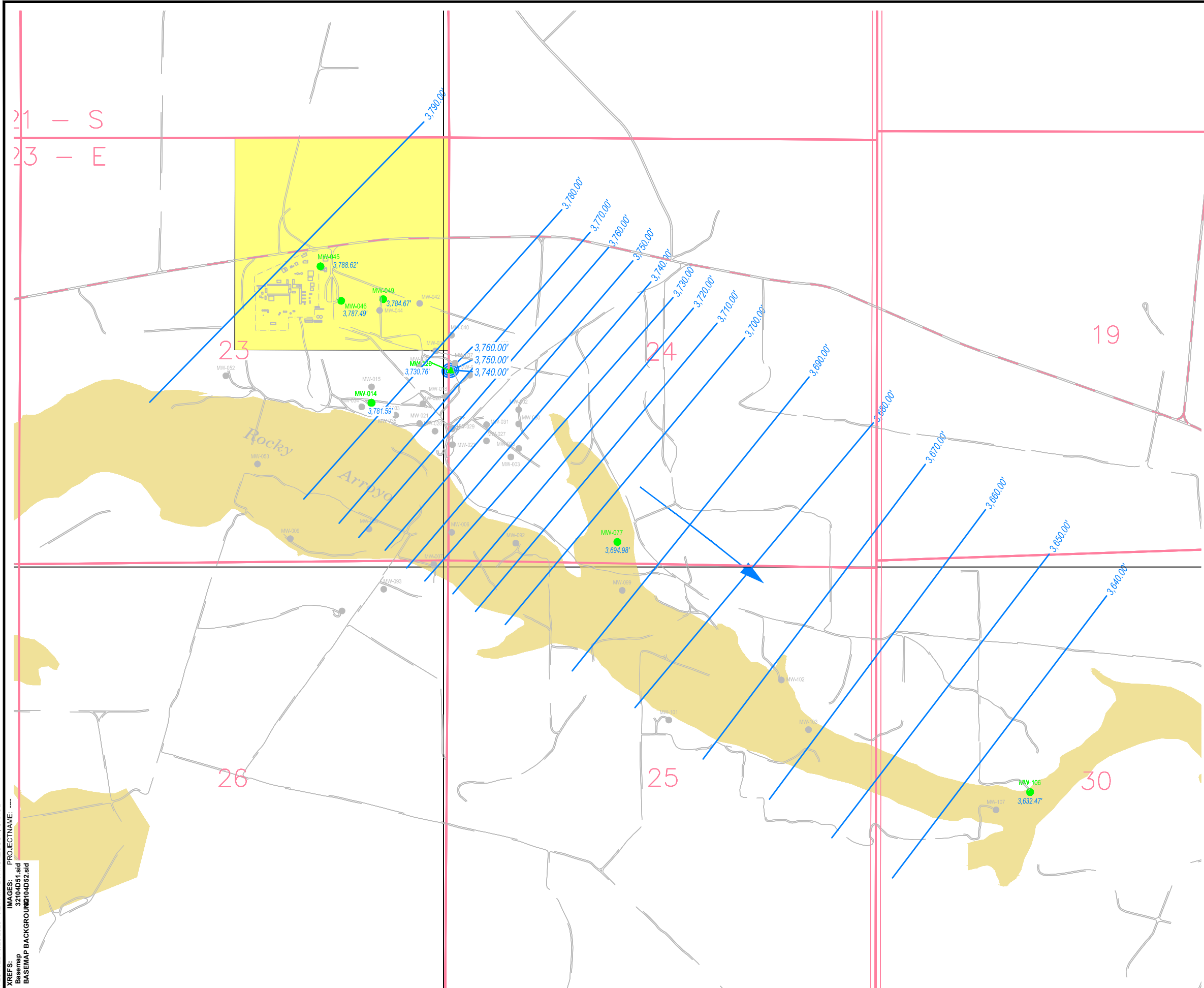
SITE LAYOUT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

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PLOTTED: 9/23/2020 10:24 AM BY: MCKEOUGH, CAROL

PROJECTNAME: 32104D51.sld
BASEMAP: BACKGROUN0104D52.sld



- LEGEND**
- MONITORING WELL
 - PLUGGED MONITORING WELL
 - ▲ PHASE II INFILL WELLS INSTALLED DURING AUGUST, 1999
 - 3,694.98' GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - DRY INDICATES WELL WAS DRY AT TIME OF GAUGING
 - 3,780.00' GROUNDWATER ELEVATION CONTOUR LINE, CONTOUR INTERVAL = 10 FEET
 - GROUNDWATER FLOW DIRECTION

BASE MAP PREPARED FROM MARTHA CREEK QUADRANGLE, NEW MEXICO U.S. GEOLOGICAL SURVEY 7½ MINUTE TOPOGRAPHIC SERIES, PUBLISHED 1978, @ A SCALE OF 1" = 2,000'.

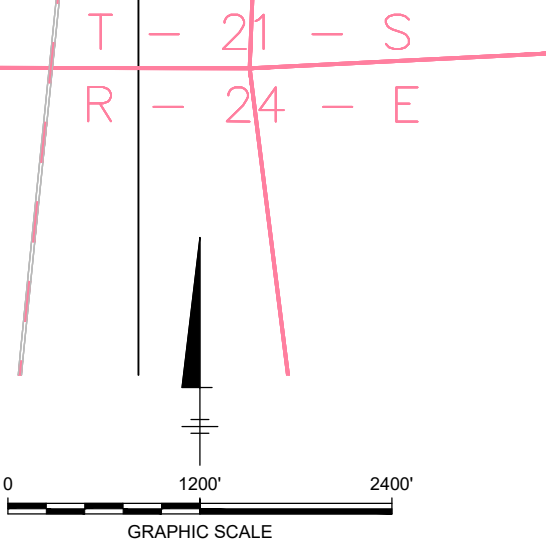
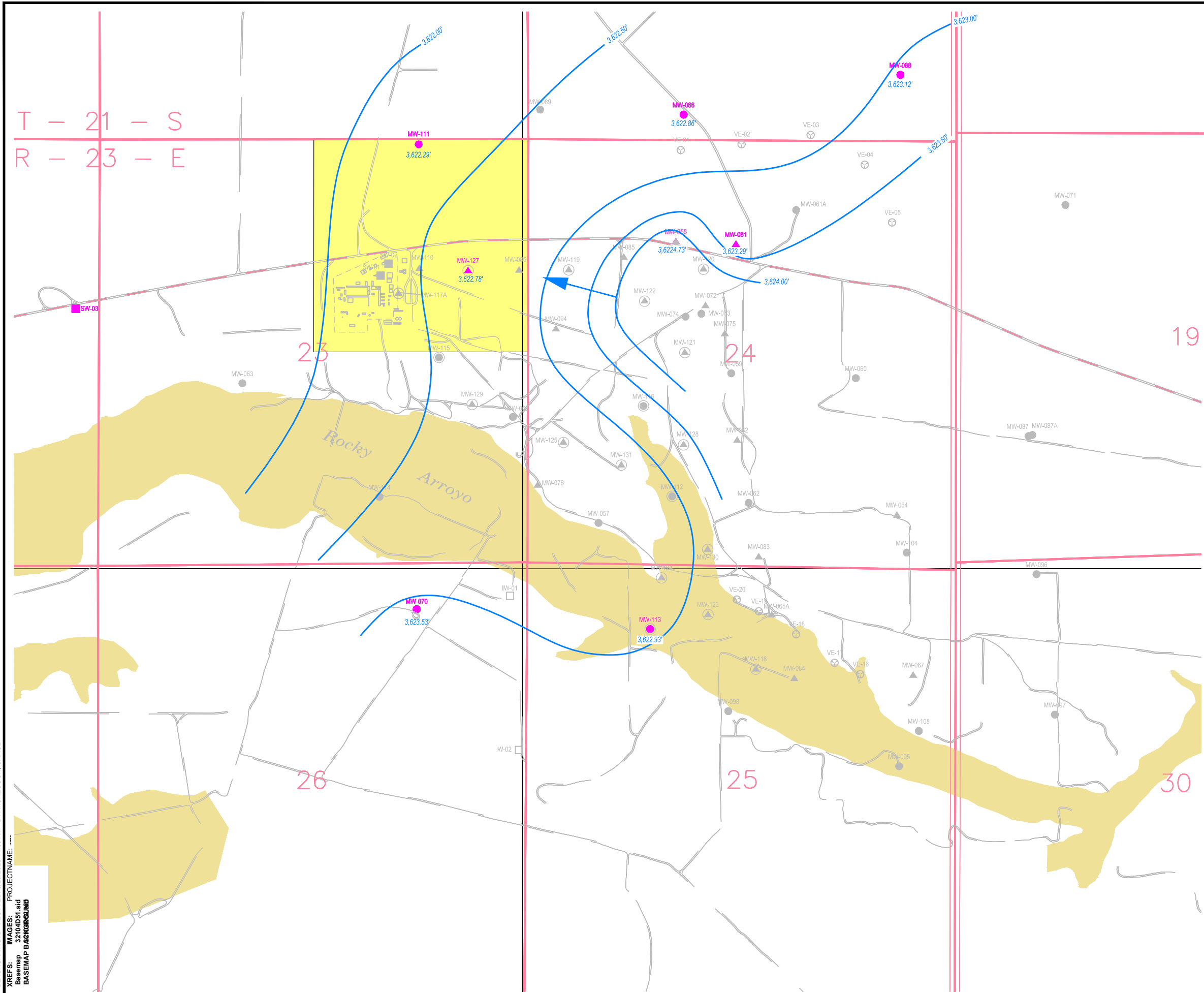
OXY USA WTP LIMITED PARTNERSHIP
EDDY COUNTY, NEW MEXICO
**INDIAN BASIN GAS PLANT
2020 ANNUAL REPORT**

**SHALLOW ZONE GROUNDWATER
ELEVATION CONTOURS
JUNE 2020**

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for natural and built assets

FIGURE
3

CITY: Milwaukee, WI GROUP: ENV DE: C. McKeough LD: PIC: M. Sanford PM: H. McConnell TM: A. Sides TR: LYRONE*OFF+REF* UN: 31-009-00471
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LEGEND

- MONITORING WELL
- PLUGGED MONITORING WELL
- RECOVERY WELL
- PLUGGED RECOVERY WELL
- PLUGGED INDUSTRIAL SUPPLY WELL
- PHASE II INFILL WELLS INSTALLED DURING AUGUST, 1999
- PLUGGED PHASE II INFILL WELL INSTALLED DURING AUGUST, 1999
- PLUGGED PHASE I INFILL WELL INSTALLED DURING JULY, 1999
- PLUGGED INFILTRATION WELL
- PLUGGED VAPOR EXTRACTION WELL
- 3,623.53' GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 3,622.00' GROUNDWATER ELEVATION CONTOUR LINE, CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION

BASE MAP PREPARED FROM MARTHA CREEK QUADRANGLE, NEW MEXICO U.S. GEOLOGICAL SURVEY 7½ MINUTE TOPOGRAPHIC SERIES, PUBLISHED 1978, @ A SCALE OF 1" = 2,000'.

OXY USA WTP LIMITED PARTNERSHIP
EDDY COUNTY, NEW MEXICO
INDIAN BASIN GAS PLANT
2020 ANNUAL REPORT

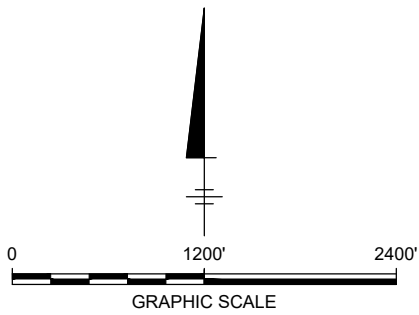
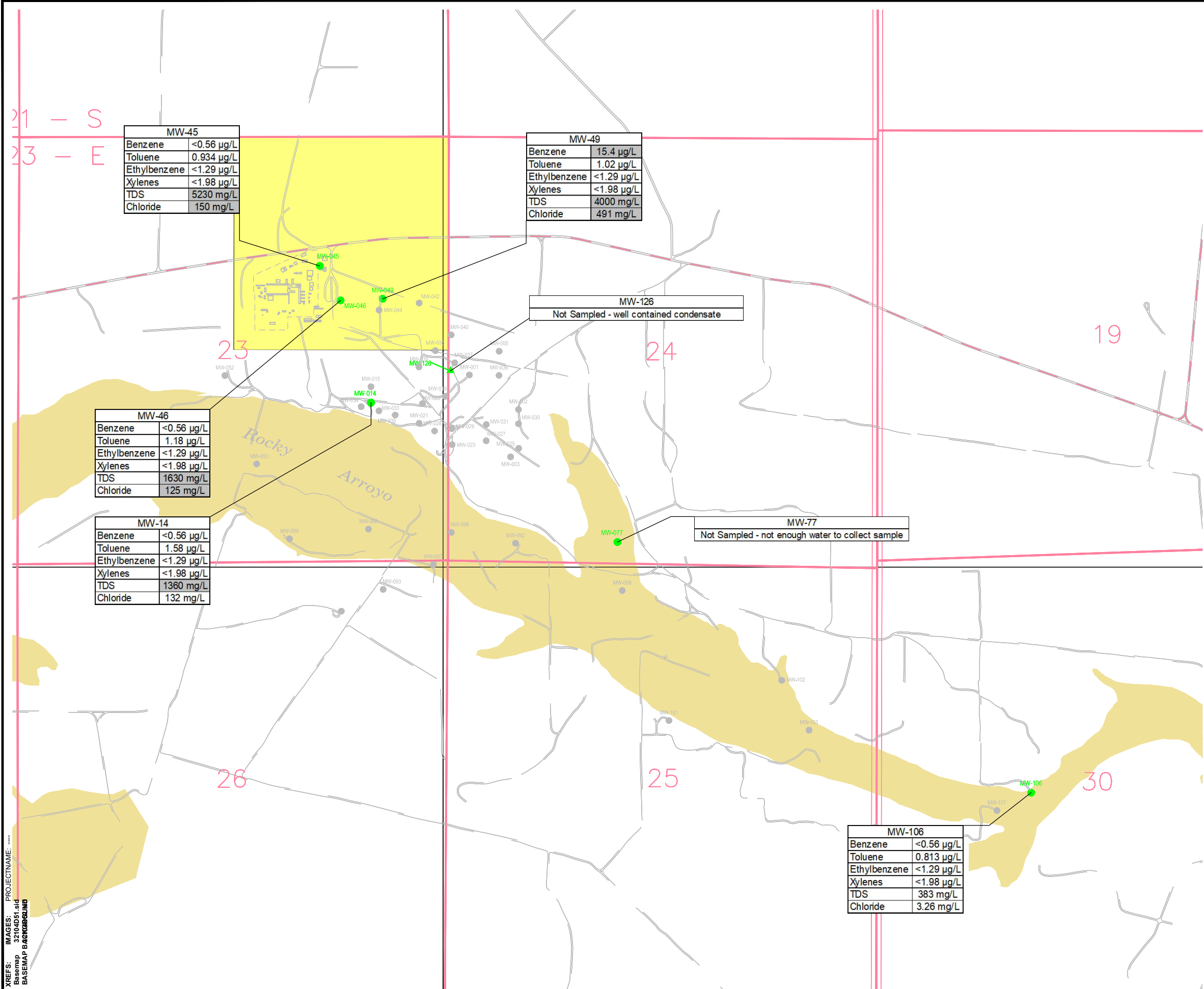
LOWER QUEEN GROUNDWATER
ELEVATION CONTOURS
JUNE 2020



FIGURE

4

CITY: Milwaukee, WI GROUP: ENV DB: C. McKeough LD: PIC: M. Sanford PM: H. McConnell TM: A. Sides TR: LYRONZ="OFF=REF" UN: 31-009-00471
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PLOTTED: 9/7/2020 12:01 PM BY: MCKEOUGH, CAROL



LEGEND

- MONITORING WELL
- PLUGGED MONITORING WELL
- ▲ RECOVERY WELL
- INDUSTRIAL SUPPLY WELL
- ⊙ PHASE II INFILL WELLS INSTALLED DURING AUGUST, 1999

COC	MW-14	WELL ID
Benzene	0.81	
Toluene	<1µg/L	
Ethylbenzene	<1µg/L	
Xylenes	<3µg/L	
TDS	1430	
Chloride	61.6	

CONCENTRATION (ug/L or mg/L)

CONSTITUENT

OCD Cleanup Goals/Regulatory Limits

Benzene	10 µg/L
Toluene	750 µg/L
Ethylbenzene	750 µg/L
Total Xylenes	620 µg/L
Total Dissolved Solids	1,000 mg/L
Chlorides	250 mg/L

Notes:
OCD NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT, OIL CONSERVATION DIVISION

mg/L MILLIGRAMS PER LITER

µg/L MICROGRAMS PER LITER

NS NOT SAMPLED - WELL CONTAINED CONDENSATE

GREY CONCENTRATIONS IN GREY EXCEED THE OCD REGULATORY LIMITS

BASE MAP PREPARED FROM MARTHA CREEK QUADRANGLE, NEW MEXICO U.S. GEOLOGICAL SURVEY 7½ MINUTE TOPOGRAPHIC SERIES, PUBLISHED 1978, @ A SCALE OF 1" = 2,000'.

OXY USA WTP LIMITED PARTNERSHIP
EDDY COUNTY, NEW MEXICO
INDIAN BASIN GAS PLANT
2020 ANNUAL REPORT

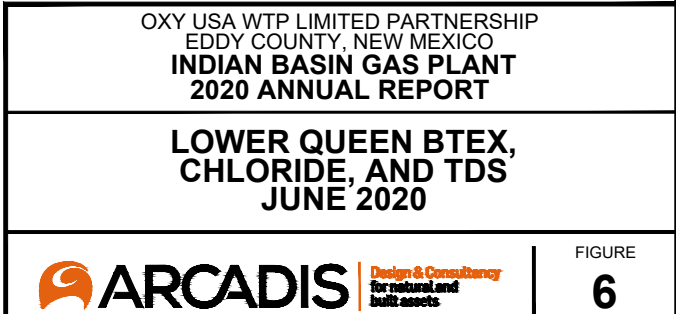
SHALLOW ZONE BTEX,
CHLORIDE, AND TDS
JUNE 2020



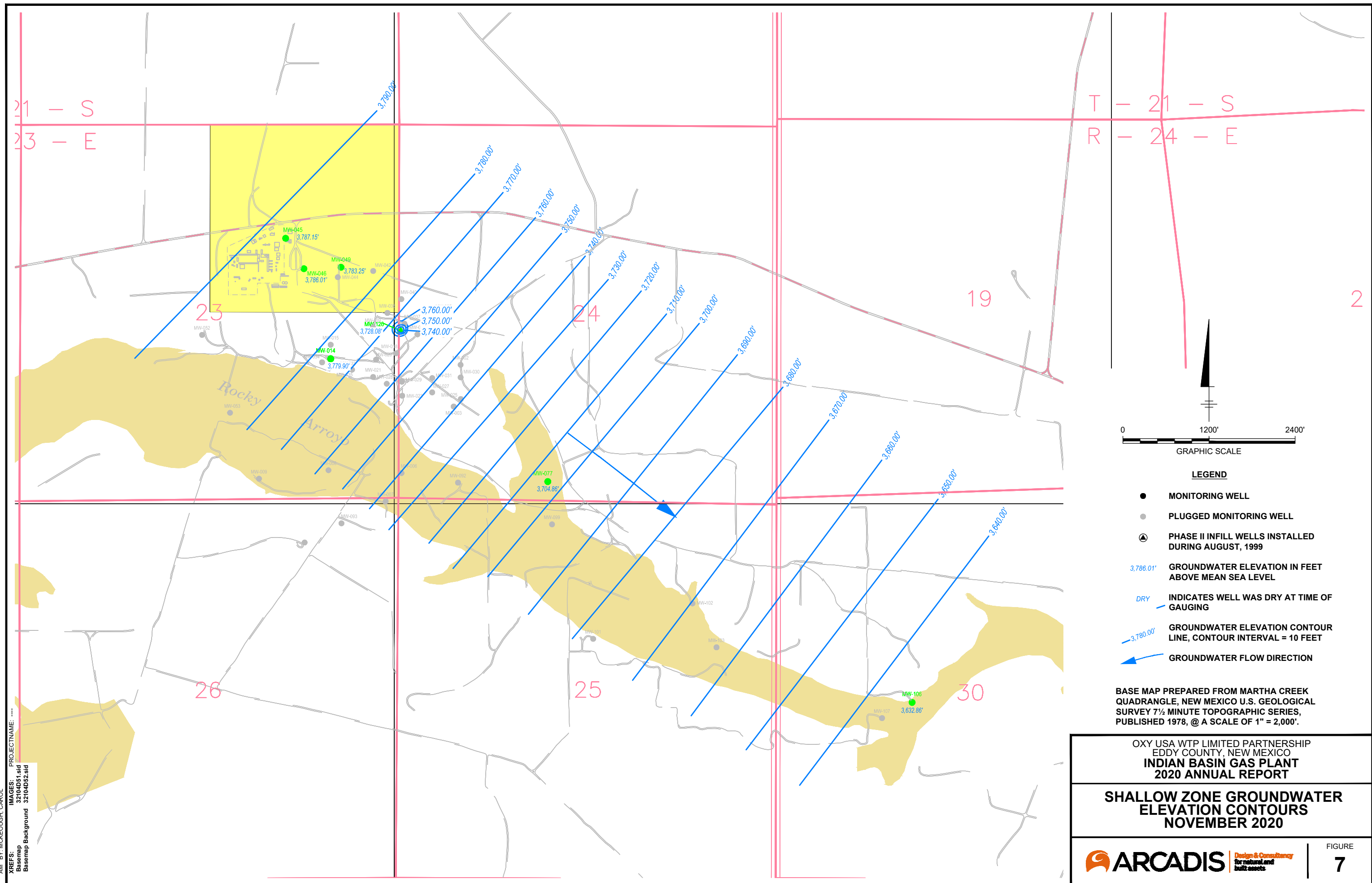
FIGURE

5

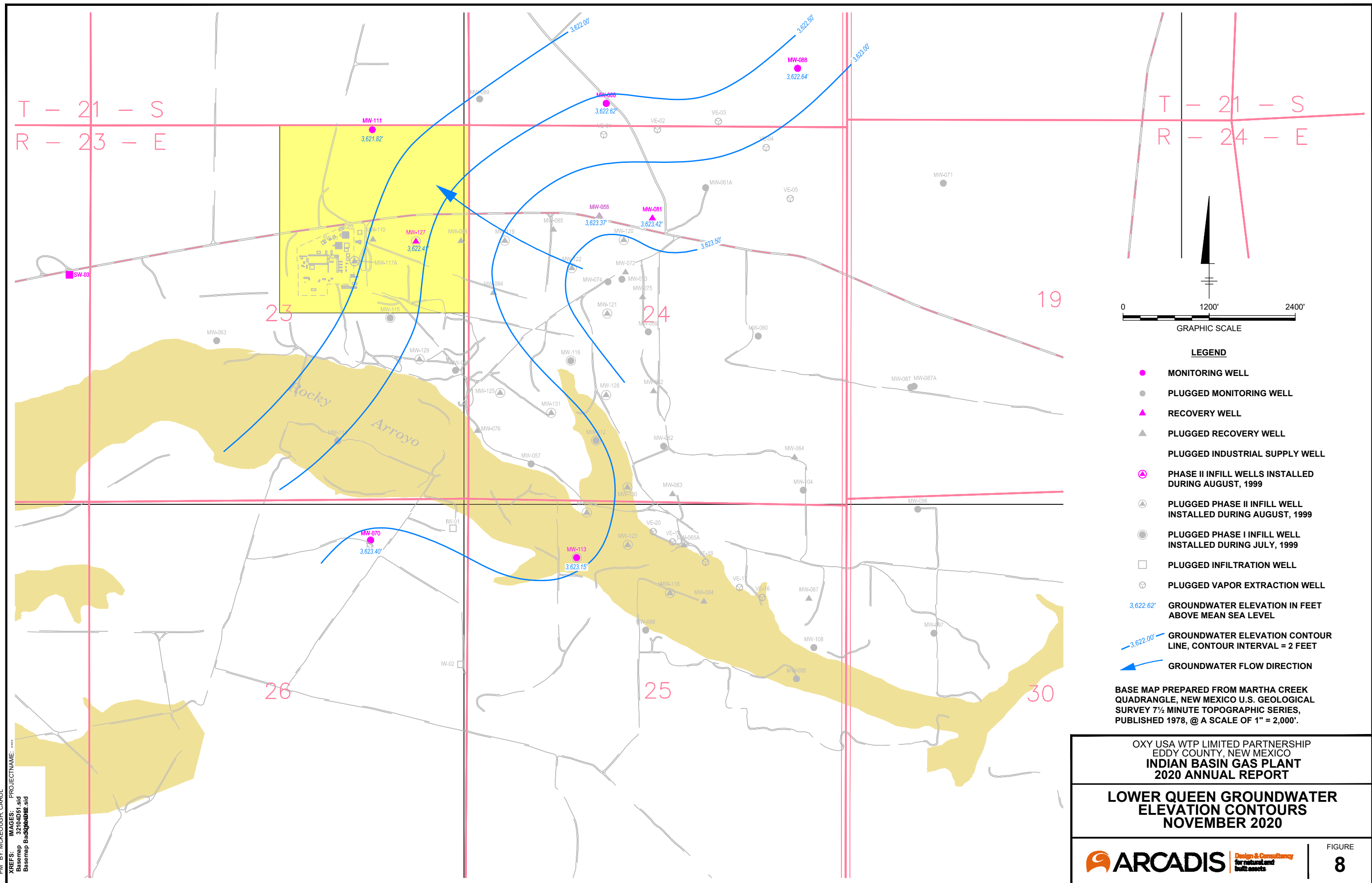
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APPENDIX A

Historic Groundwater Elevations



Appendix A

Page 1 of 18

Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
Shallow Zone Wells					
MW-14	12/1/1991	3803.61	9.68	0	3793.93
MW-14	10/1/1993	3803.61	22.55	0	3781.06
MW-14	1/1/1994	3803.61	22.78	0	3780.83
MW-14	1/27/1998	3803.61	22.36	0	3781.25
MW-14	6/16/1998	3803.61	22.88	0	3780.73
MW-14	4/19/1999	3803.61	23.74	0.24	3780.05
MW-14	1/5/2000	3803.61	22.22	0	3781.39
MW-14	4/26/2000	3803.61	22.74	0.03	3780.89
MW-14	9/27/2000	3803.61	23.40	0.09	3780.28
MW-14	4/16/2001	3803.61	22.15	0.01	3781.47
MW-14	10/29/2001	3803.61	21.98	0.08	3781.69
MW-14	4/15/2002	3803.61	22.81	0	3780.80
MW-14	10/14/2002	3803.61	18.17	0	3785.44
MW-14	04/15/2003	3803.61	21.87	0	3781.74
MW-14	10/14/2003	3803.61	22.19	0	3781.42
MW-14	4/5/2004	3803.61	23.45	0.01	3780.17
MW-14	10/5/2004	3803.61	18.36	0	3785.25
MW-14	4/19/2005	3803.61	21.55	0	3782.06
MW-14	10/24/2005	3803.61	20.69	0	3782.92
MW-14	4/18/2006	3803.61	22.69	0	3780.92
MW-14	10/11/2006	3803.61	19.20	0	3784.41
MW-14	4/16/2007	3803.61	22.1	0	3781.51
MW-14	10/22/2007	3803.61	21.15	0	3782.46
MW-14	5/27/2009	3803.61	23.75	0	3779.86
MW-14	6/21/2010	3803.61	24.04	0	3779.57
MW-14	12/28/2010	3803.61	22.31	0	3781.30
MW-14	6/30/2011	3803.61	24.00	0	3779.61
MW-14	12/15/2011	3803.61	23.85	0	3779.76
MW-14	6/27/2012	3803.61	22.73	0	3780.88
MW-14	12/1/2012	3803.61	23.40	0	3780.21
MW-14	6/1/2013	3803.61	22.73	0	3780.88
MW-14	12/12/2013	3803.61	20.82	0	3782.79
MW-14	6/25/2014	3803.61	20.96	0	3782.65
MW-14	12/16/2014	3803.61	20.42	0	3783.19
MW-14	4/28/2015	3803.61	21.91	0	3781.70
MW-14	10/13/2015	3803.61	19.89	0	3783.72
MW-14	5/24/2016	3803.61	22.70	0	3780.91
MW-14	12/6/2016	3803.61	21.85	0	3781.76
MW-14	7/12/2017	3803.61	23.39	0	3780.22
MW-14	12/17/2017	3803.61	23.10	0	3780.51
MW-14	7/8/2018	3803.61	23.79	0	3779.82
MW-14	11/13/2018	3803.61	21.78	0	3781.83
MW-14	6/24/2019	3803.61	23.13	0	3780.48
MW-14	12/10/2019	3803.61	21.15	0	3782.46
MW-14	6/10/2020	3803.61	22.02	0	3781.59
MW-14	11/2/2020	3803.61	23.71	0	3779.90
MW-45	12/1/1991	3808.68	13.91	0	3794.77
MW-45	7/1/1993	3808.68	21.49	0	3787.19
MW-45	10/1/1993	3808.68	21.47	0	3787.21

D = Dry
 NA = Not Available
 NG = Not Gauged
 NR = No Record

Appendix A

Page 2 of 18

Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-45	1/1/1994	3808.68	21.54	0	3787.14
MW-45	4/1/1994	3808.68	22.64	0	3786.04
MW-45	7/1/1994	3808.68	21.85	0	3786.83
MW-45	10/1/1994	3808.68	21.52	0	3787.16
MW-45	1/1/1995	3808.68	21.78	0	3786.90
MW-45	4/1/1995	3808.68	22.13	0	3786.55
MW-45	7/1/1995	3808.68	22.13	0	3786.55
MW-45	1/5/2000	3808.68	18.88	0	3789.80
MW-45	4/26/2000	3808.68	19.19	0	3789.49
MW-45	9/27/2000	3808.68	19.19	0	3789.49
MW-45	4/16/2001	3808.68	18.39	0	3790.29
MW-45	10/29/2001	3808.68	18.53	0	3790.15
MW-45	4/15/2002	3808.68	18.75	0	3789.93
MW-45	10/14/2002	3808.68	18.39	0	3790.29
MW-45	04/15/2003	3808.68	21.36	0	3787.32
MW-45	10/14/2003	3808.68	21.35	0	3787.33
MW-45	4/5/2004	3808.68	21.69	0	3786.99
MW-45	10/5/2004	3808.68	14.09	0	3794.59
MW-45	4/19/2005	3808.68	16.94	0	3791.74
MW-45	10/24/2005	3808.68	20.09	0	3788.59
MW-45	4/18/2006	3808.68	20.72	0	3787.96
MW-45	10/11/2006	3808.68	16.40	0	3792.28
MW-45	4/16/2007	3808.68	19.98	0	3788.70
MW-45	10/22/2007	3808.68	15.95	0	3792.73
MW-45	5/27/2009	3808.68	21.56	0	3787.12
MW-45	6/21/2010	3808.68	21.52	0	3787.16
MW-45	12/28/2010	3808.68	20.05	0	3788.63
MW-45	6/30/2011	3808.68	19.47	0	3789.21
MW-45	12/15/2011	3808.68	20.20	0	3788.48
MW-45	6/27/2012	3808.68	21.47	0	3787.21
MW-45	12/1/2012	3808.68	21.22	0	3787.46
MW-45	6/1/2013	3808.68	21.47	0	3787.21
MW-45	12/12/2013	3808.68	18.77	0	3789.91
MW-45	6/25/2014	3808.68	16.12	0	3792.56
MW-45	12/16/2014	3808.68	16.95	0	3791.73
MW-45	4/28/2015	3808.68	19.90	0	3788.78
MW-45	10/13/2015	3808.68	19.79	0	3788.89
MW-45	5/24/2016	3808.68	22.14	0	3786.54
MW-45	12/6/2016	3808.68	21.06	0	3787.62
MW-45	7/12/2017	3808.68	21.45	0	3787.23
MW-45	12/17/2017	3808.68	20.11	0	3788.57
MW-45	7/8/2018	3808.68	21.54	0	3787.14
MW-45	11/13/2018	3808.68	21.00	0	3787.68
MW-45	6/24/2019	3808.68	19.20	0	3789.48
MW-45	12/10/2019	3808.68	18.95	0	3789.73
MW-45	6/10/2020	3808.68	20.06	0	3788.62
MW-45	11/2/2020	3808.68	21.53	0	3787.15
MW-46	10/1/1993	3805.54	19.87	0	3785.67
MW-46	1/1/1994	3805.54	19.42	0	3786.12
MW-46	4/1/1994	3805.54	19.59	0	3785.95
MW-46	10/1/1994	3805.54	19.20	0	3786.34

D = Dry
NA = Not Available
NG = Not Gauged
NR = No Record

Appendix A

Page 3 of 18

Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-46	4/1/1995	3805.54	19.55	0	3785.99
MW-46	7/1/1995	3805.54	19.55	0	3785.99
MW-46	1/16/1996	3805.54	19.48	0	3786.06
MW-46	4/19/1996	3805.54	19.52	0	3786.02
MW-46	7/15/1996	3805.54	19.41	0	3786.13
MW-46	10/13/1996	3805.54	15.73	0	3789.81
MW-46	2/4/1997	3805.54	18.22	0	3787.32
MW-46	4/28/1997	3805.54	16.93	0	3788.61
MW-46	7/14/1997	3805.54	17.15	0	3788.39
MW-46	10/13/1997	3805.54	18.01	0	3787.53
MW-46	1/27/1998	3805.54	17.54	0	3788.00
MW-46	4/27/1998	3805.54	18.34	0	3787.20
MW-46	6/16/1998	3805.54	18.69	0	3786.85
MW-46	10/10/1998	3805.54	17.82	0	3787.72
MW-46	1/27/1999	3805.54	16.91	0	3788.63
MW-46	4/19/1999	3805.54	17.44	0	3788.10
MW-46	1/5/2000	3805.54	16.76	0	3788.78
MW-46	4/26/2000	3805.54	17.17	0	3788.37
MW-46	9/27/2000	3805.54	17.42	0	3788.12
MW-46	4/16/2001	3805.54	16.68	0	3788.86
MW-46	10/29/2001	3805.54	16.79	0	3788.75
MW-46	4/15/2002	3805.54	17.49	0	3788.05
MW-46	10/14/2002	3805.54	17.83	0	3787.71
MW-46	04/15/2003	3805.54	19.38	0	3786.16
MW-46	10/14/2003	3805.54	19.62	0	3785.92
MW-46	4/5/2004	3805.54	19.63	0	3785.91
MW-46	10/5/2004	3805.54	13.05	0	3792.49
MW-46	4/19/2005	3805.54	16.27	0	3789.27
MW-46	10/24/2005	3805.54	19.38	0	3786.16
MW-46	4/18/2006	3805.54	19.35	0	3786.19
MW-46	10/11/2006	3805.54	15.74	0	3789.80
MW-46	4/16/2007	3805.54	19.34	0	3786.20
MW-46	10/22/2007	3805.54	15.67	0	3789.87
MW-46	5/27/2009	3805.54	19.38	0	3786.16
MW-46	6/21/2010	3805.54	19.42	0	3786.12
MW-46	12/28/2010	3805.54	18.27	0	3787.27
MW-46	6/30/2011	3805.54	19.54	0	3786.00
MW-46	12/15/2011	3805.54	18.35	0	3787.19
MW-46	6/27/2012	3805.54	19.33	0	3786.21
MW-46	12/1/2012	3805.54	19.33	0	3786.21
MW-46	6/1/2013	3805.54	19.33	0	3786.21
MW-46	12/12/2013	3805.54	16.88	0	3788.66
MW-46	6/25/2014	3805.54	15.67	0	3789.87
MW-46	12/16/2014	3805.54	16.31	0	3789.23
MW-46	4/28/2015	3805.54	18.54	0	3787.00
MW-46	10/13/2015	3805.54	17.98	0	3787.56
MW-46	5/24/2016	3805.54	19.45	0	3786.09
MW-46	12/6/2016	3805.54	19.81	0	3785.73
MW-46	7/12/2017	3805.54	19.25	0	3786.29
MW-46	12/17/2017	3805.54	18.15	0	3787.39
MW-46	7/8/2018	3805.54	19.31	0	3786.23
MW-46	11/13/2018	3805.54	18.70	0	3786.84

D = Dry
 NA = Not Available
 NG = Not Gauged
 NR = No Record

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-46	6/24/2019	3805.54	18.24	0	3787.30
MW-46	12/10/2019	3805.54	17.00	0	3788.54
MW-46	6/10/2020	3805.54	18.05	0	3787.49
MW-46	11/2/2020	3805.54	19.53	0	3786.01
MW-49	12/1/1991	3805.61	16.60	0	3789.01
MW-49	7/1/1993	3805.61	21.98	0	3783.63
MW-49	10/1/1993	3805.61	21.93	0	3783.68
MW-49	1/1/1994	3805.61	22.27	0	3783.34
MW-49	4/1/1994	3805.61	22.64	0	3782.97
MW-49	7/1/1994	3805.61	22.73	0	3782.88
MW-49	10/1/1994	3805.61	22.30	0	3783.31
MW-49	1/1/1995	3805.61	22.56	0	3783.05
MW-49	4/1/1995	3805.61	22.94	0	3782.67
MW-49	7/1/1995	3805.61	22.94	0	3782.67
MW-49	10/1/1995	3805.61	22.68	0	3782.93
MW-49	1/16/1996	3805.61	22.55	0	3783.06
MW-49	4/19/1996	3805.61	22.59	0	3783.02
MW-49	7/15/1996	3805.61	22.76	0	3782.85
MW-49	10/13/1996	3805.61	19.54	0	3786.07
MW-49	2/3/1997	3805.61	20.66	0	3784.95
MW-49	3/18/1997	3805.61	20.99	0	3784.62
MW-49	4/28/1997	3805.61	20.70	0	3784.91
MW-49	7/14/1997	3805.61	20.31	0	3785.30
MW-49	10/13/1997	3805.61	21.01	0	3784.60
MW-49	1/27/1998	3805.61	21.08	0	3784.53
MW-49	4/27/1998	3805.61	21.34	0	3784.27
MW-49	6/16/1998	3805.61	21.35	0	3784.26
MW-49	10/9/1998	3805.61	22.52	0	3783.09
MW-49	1/27/1999	3805.61	20.50	0	3785.11
MW-49	4/19/1999	3805.61	20.81	0	3784.80
MW-49	1/5/2000	3805.61	20.07	0	3785.54
MW-49	4/26/2000	3805.61	20.30	0	3785.31
MW-49	9/27/2000	3805.61	20.52	0	3785.09
MW-49	4/16/2001	3805.61	20.03	0	3785.58
MW-49	10/29/2001	3805.61	19.96	0	3785.65
MW-49	4/15/2002	3805.61	19.76	0	3785.85
MW-49	10/14/2002	3805.61	20.56	0	3785.05
MW-49	04/15/2003	3805.61	22.08	0	3783.53
MW-49	10/14/2003	3805.61	22.52	0	3783.09
MW-49	4/5/2004	3805.61	22.79	0	3782.82
MW-49	10/5/2004	3805.61	18.33	0	3787.28
MW-49	4/19/2005	3805.61	18.23	0	3787.38
MW-49	10/24/2005	3805.61	21.01	0	3784.60
MW-49	4/18/2006	3805.61	22.29	0	3783.32
MW-49	10/11/2006	3805.61	20.49	0	3785.12
MW-49	4/16/2007	3805.61	21.43	0	3784.18
MW-49	10/22/2007	3805.61	18.81	0	3786.80
MW-49	5/27/2009	3805.61	22.35	0	3783.26
MW-49	6/21/2010	3805.61	22.33	0	3783.28
MW-49	12/28/2010	3805.61	20.92	0	3784.69
MW-49	6/30/2011	3805.61	21.95	0	3783.66

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Historic Fluid Level Data

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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-49	12/15/2011	3805.61	21.11	0	3784.50
MW-49	6/27/2012	3805.61	22.40	0	3783.21
MW-49	12/1/2012	3805.61	22.12	0	3783.49
MW-49	6/1/2013	3805.61	22.40	0	3783.21
MW-49	12/12/2013	3805.61	20.05	0	3785.56
MW-49	6/25/2014	3805.61	19.42	0	3786.19
MW-49	12/16/2014	3805.61	17.49	0	3788.12
MW-49	4/28/2015	3805.61	20.21	0	3785.40
MW-49	10/13/2015	3805.61	20.95	0	3784.66
MW-49	5/24/2016	3805.61	21.41	0	3784.20
MW-49	12/6/2016	3805.61	21.62	0	3783.99
MW-49	7/12/2017	3805.61	22.40	0	3783.21
MW-49	12/17/2017	3805.61	21.08	0	3784.53
MW-49	7/8/2018	3805.61	22.31	0	3783.30
MW-49	11/13/2018	3805.61	22.59	0	3783.02
MW-49	6/24/2019	3805.61	22.38	0	3783.23
MW-49	12/10/2019	3805.61	21.22	0	3784.39
MW-49	6/10/2020	3805.61	20.94	0	3784.67
MW-49	11/2/2020	3805.61	22.36	0	3783.25
MW-77	1/1/1995	3775.48	80.03	0	3695.45
MW-77	4/1/1995	3775.48	80.04	0	3695.44
MW-77	7/1/1995	3775.48	80.04	0	3695.44
MW-77	10/1/1995	3775.48	79.70	0	3695.78
MW-77	1/16/1996	3775.48	79.84	0	3695.64
MW-77	4/17/1996	3775.48	78.95	0	3696.53
MW-77	7/16/1996	3775.48	79.42	0	3696.06
MW-77	10/14/1996	3775.48	80.02	0	3695.46
MW-77	2/4/1997	3775.48	D	0	--
MW-77	4/29/1997	3775.48	80.35	0	3695.13
MW-77	7/15/1997	3775.48	80.31	0	3695.17
MW-77	10/14/1997	3775.48	78.92	0	3696.56
MW-77	1/28/1998	3775.48	77.00	0	3698.48
MW-77	4/27/1998	3775.48	78.48	0	3697.00
MW-77	6/16/1998	3775.48	75.30	0	3700.18
MW-77	10/10/1998	3775.48	79.84	0	3695.64
MW-77	1/27/1999	3775.48	76.41	0	3699.07
MW-77	4/19/1999	3775.48	77.50	0	3697.98
MW-77	1/5/2000	3775.48	79.36	0	3696.12
MW-77	4/26/2000	3775.48	78.57	0	3696.91
MW-77	9/27/2000	3775.48	78.86	0	3696.62
MW-77	4/16/2001	3775.48	79.91	0	3695.57
MW-77	10/29/2001	3775.48	79.72	0	3695.76
MW-77	4/15/2002	3775.48	80.42	0	3695.06
MW-77*	10/14/2002	3775.48	57.95	0	3717.53
MW-77	04/15/2003	3775.48	69.95	0	3705.53
MW-77	10/14/2003	3775.48	73.98	0	3701.50
MW-77	4/5/2004	3775.48	79.88	0	3695.60
MW-77	10/5/2004	3775.48	63.37	0	3712.11
MW-77	4/19/2005	3775.48	67.06	0	3708.42
MW-77	10/24/2005	3775.48	63.89	0	3711.59
MW-77	4/18/2006	3775.48	80.43	0	3695.05

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-77	10/11/2006	3775.48	78.89	0	3696.59
MW-77	4/17/2007	3775.48	76.32	0	3699.16
MW-77	10/22/2007	3775.48	73.36	0	3702.12
MW-77	5/27/2009	3775.48	D	0	--
MW-77	6/21/2010	3775.48	80.57	0	3694.91
MW-77	12/28/2010	3775.48	80.37	0	3695.11
MW-77	6/30/2011	3775.48	80.47	0	3695.01
MW-77	12/15/2011	3775.48	80.55	0	3694.93
MW-77	6/27/2012	3775.48	81.00	0	3694.48
MW-77	12/1/2012	3775.48	80.51	0	3694.97
MW-77	6/1/2013	3775.48	81.00	0	3694.48
MW-77	12/12/2013	3775.48	78.76	0	3696.72
MW-77	6/25/2014	3775.48	71.32	0	3704.16
MW-77	12/16/2014	3775.48	80.45	0	3695.03
MW-77	4/28/2015	3775.48	80.61	0	3694.87
MW-77	10/13/2015	3775.48	80.63	0	3694.85
MW-77	5/24/2016	3775.48	80.47	0	3695.01
MW-77	12/6/2016	3775.48	80.50	0	3694.98
MW-77	7/12/2017	3775.48	80.55	0	3694.93
MW-77	12/17/2017	3775.48	80.41	0	3695.07
MW-77	7/8/2018	3775.48	80.49	0	3694.99
MW-77	11/13/2018	3775.48	80.30	0	3695.18
MW-77	6/24/2019	3775.48	80.26	0	3695.22
MW-77	12/10/2019	3775.48	72.72	0	3702.76
MW-77	6/10/2020	3775.48	80.50	0	3694.98
MW-77	11/2/2020	3775.48	70.62	0	3704.86
MW-106	2/4/1997	3721.97	87.97	0	3634.00
MW-106	4/28/1997	3721.97	87.59	0	3634.38
MW-106	7/15/1997	3721.97	87.63	0	3634.34
MW-106	10/13/1997	3721.97	88.75	0	3633.22
MW-106	1/28/1998	3721.97	88.97	0	3633.00
MW-106	4/27/1998	3721.97	89.36	0	3632.61
MW-106	6/15/1998	3721.97	89.63	0	3632.34
MW-106	10/10/1998	3721.97	89.61	0	3632.36
MW-106	1/27/1999	3721.97	86.55	0	3635.42
MW-106	4/19/1999	3721.97	89.58	0	3632.39
MW-106	1/5/2000	3721.97	89.05	0	3632.92
MW-106	4/26/2000	3721.97	89.31	0	3632.66
MW-106	9/27/2000	3721.97	87.98	0	3633.99
MW-106	4/16/2001	3721.97	88.81	0	3633.16
MW-106	10/29/2001	3721.97	89.05	0	3632.92
MW-106	4/15/2002	3721.97	89.05	0	3632.92
MW-106	10/14/2002	3721.97	87.40	0	3634.57
MW-106	04/15/2003	3721.97	88.91	0	3633.06
MW-106	10/14/2003	3721.97	89.94	0	3632.03
MW-106	4/5/2004	3721.97	89.34	0	3632.63
MW-106	10/5/2004	3721.97	75.78	0	3646.19
MW-106	4/19/2005	3721.97	88.54	0	3633.43
MW-106	10/24/2005	3721.97	88.47	0	3633.50
MW-106	4/18/2006	3721.97	89.71	0	3632.26
MW-106	10/11/2006	3721.97	87.09	0	3634.88

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-106	4/17/2007	3721.97	89.4	0	3632.57
MW-106	10/22/2007	3721.97	88.64	0	3633.33
MW-106	5/27/2009	3721.97	D	--	--
MW-106	6/21/2010	3721.97	90.06	0	3631.91
MW-106	12/28/2010	3721.97	89.47	0	3632.50
MW-106	6/30/2011	3721.97	89.93	0	3632.04
MW-106	12/15/2011	3721.97	90.02	0	3631.95
MW-106	6/27/2012	3721.97	87.75	0	3634.22
MW-106	12/1/2012	3721.97	89.71	0	3632.26
MW-106	6/1/2013	3721.97	87.50	0	3634.47
MW-106	12/12/2013	3721.97	88.62	0	3633.35
MW-106	6/25/2014	3721.97	88.27	0	3633.70
MW-106	12/16/2014	3721.97	88.44	0	3633.53
MW-106	4/28/2015	3721.97	89.03	0	3632.94
MW-106	10/13/2015	3721.97	88.01	0	3633.96
MW-106	5/24/2016	3721.97	89.76	0	3632.21
MW-106	12/6/2016	3721.97	89.93	0	3632.04
MW-106	7/12/2017	3721.97	89.79	0	3632.18
MW-106	12/17/2017	3721.97	89.72	0	3632.25
MW-106	7/8/2018	3721.97	89.68	0	3632.29
MW-106	11/13/2018	3721.97	88.54	0	3633.43
MW-106	6/24/2019	3721.97	88.10	0	3633.87
MW-106	12/10/2019	3721.97	88.20	0	3633.77
MW-106	6/10/2020	3721.97	89.50	0	3632.47
MW-106	11/2/2020	3721.97	89.11	0	3632.86
MW-126	1/5/2000	3795.58	53.08	0	3742.50
MW-126	4/26/2000	3795.58	54.03	0	3741.55
MW-126	9/27/2000	3795.58	60.29	0	3735.29
MW-126	4/16/2001	3795.58	54.25	0.52	3741.71
MW-126	10/29/2001	3795.58	57.82	2.1	3739.29
MW-126	4/15/2002	3795.58	56.95	2.23	3740.26
MW-126	10/14/2002	3795.58	54.03	2.57	3743.43
MW-126	04/15/2003	3796.28	63.65	3.96	3735.52
MW-126	10/14/2003	3796.28	68.01	0	3728.27
MW-126	4/5/2004	3796.28	70.04	0	3726.24
MW-126	10/5/2004	3796.28	48.01	0.01	3748.28
MW-126	4/19/2005	3796.28	50.63	0.25	3745.83
MW-126	10/24/2005	3796.28	51.78	0	3744.50
MW-126	4/18/2006	3796.28	66.79	0	3729.49
MW-126	10/11/2006	3796.28	51.76	0.08	3744.58
MW-126	4/17/2007	3796.28	62.92	0.6	3732.92
MW-126	10/22/2007	3796.28	56.30	0	3739.98
MW-126	5/27/2009	3796.28	69.95	0.05	3726.37
MW-126	6/21/2010	3796.28	70.40	0.23	3726.05
MW-126	12/28/2010	3796.28	66.12	0.56	3730.57
MW-126	6/30/2011	3796.28	69.55	0.45	3727.06
MW-126	12/15/2011	3796.28	70.21	0.22	3726.23
MW-126	6/27/2012	3796.28	67.72	0.29	3728.77
MW-126	12/1/2012	3796.28	71.19	0	3725.10
MW-126	6/1/2013	3796.28	72.00	0	3724.28
MW-126	12/12/2013	3796.28	53.52	0.11	3742.84

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-126	6/25/2014	3796.28	63.63	0.08	3732.71
MW-126	12/16/2014	3796.28	44.65	0.19	3751.77
MW-126	4/28/2015	3796.28	52.46	0.21	3743.97
MW-126	10/13/2015	3796.28	65.03	0.27	3731.45
MW-126	5/24/2016	3796.28	66.50	0.27	3729.98
MW-126	12/6/2016	3796.28	62.04	0.69	3734.74
MW-126	7/12/2017	3796.28	69.83	0.3	3726.67
MW-126	12/17/2017	3796.28	66.64	0.21	3729.79
MW-126	7/8/2018	3796.28	69.72	0.2	3726.71
MW-126	11/13/2018	3796.28	67.79	0.16	3728.61
MW-126	6/24/2019	3796.28	69.73	0.20	3726.70
MW-126	12/10/2019	3796.28	53.72	0.12	3742.65
MW-126	6/10/2020	3796.28	65.52	0.12	3730.85
MW-126	11/2/2020	3796.28	68.32	0.17	3728.08

Lower Queen Wells

MW-58	7/16/1991	3824.07	197.91	0	3626.16
MW-58	8/21/1991	3824.07	193.76	0	3630.31
MW-58	9/18/1991	3824.07	193.26	0	3630.81
MW-58	10/22/1991	3824.07	194.45	0	3629.62
MW-58	11/15/1991	3824.07	194.77	0	3629.30
MW-58	1/16/1996	3824.07	D	--	--
MW-58	7/16/1996	3824.07	D	--	--
MW-58	10/14/1996	3824.07	196.01	0.01	3628.06
MW-58	2/4/1997	3824.07	203.00	0	3621.07
MW-58	4/28/1997	3824.07	204.14	0	3619.93
MW-58	7/15/1997	3824.07	197.66	0	3626.41
MW-58	10/1/1997	3824.07	199.20	0.3	3625.08
MW-58	10/9/1997	3824.07	199.52	0.67	3625.03
MW-58	10/14/1997	3824.07	196.10	0	3627.97
MW-58	1/28/1998	3824.07	198.55	0	3625.52
MW-58	5/28/1998	3824.07	205.14	0	3618.93
MW-58	10/11/1998	3824.07	200.48	0	3623.59
MW-58	1/27/1999	3824.07	D	--	--
MW-58	4/19/1999	3824.07	217.17	0	3606.90
MW-58	1/5/2000	3824.07	210.57	0	3613.50
MW-58	4/26/2000	3824.07	223.51	0	3600.56
MW-58	9/27/2000	3824.07	220.18	0	3603.89
MW-58	4/16/2001	3824.07	114.83	0	3709.24
MW-58	10/29/2001	3824.07	177.31	0	3644.41
MW-58	4/15/2002	3824.07	201.92	0	3622.15
MW-58	10/14/2002	3824.07	199.69	0	3624.38
MW-58	2/13/2003	3824.07	201.08	0	3622.99
MW-58	3/10/2003	3824.07	202.20	0	3621.87
MW-58	04/15/2003	3824.07	201.17	0	3622.90
MW-58	5/15/2003	3824.07	201.82	0	3622.25
MW-58	6/24/2003	3824.07	201.71	0	3622.36
MW-58	7/15/2003	3824.07	202.89	0	3621.18
MW-58	8/8/2003	3824.07	201.98	0	3622.09
MW-58	9/12/2005	3824.07	202.20	0	3621.87
MW-58	10/14/2003	3824.07	202.19	0	3621.88

D = Dry
NA = Not Available
NG = Not Gauged
NR = No Record

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-58	11/7/2003	3824.07	202.29	0	3621.78
MW-58	12/4/2003	3824.07	202.26	0	3621.81
MW-58	1/8/2004	3824.07	202.38	0.1	3621.76
MW-58	2/12/2004	3824.07	202.47	0	3621.60
MW-58	3/25/2004	3824.07	202.49	0	3621.58
MW-58	4/5/2004	3824.07	202.32	0	3621.75
MW-58	5/27/2004	3824.07	201.37	0.01	3622.71
MW-58	6/17/2004	3824.07	202.00	0	3622.07
MW-58	7/15/2004	3824.07	202.08	0	3621.99
MW-58	8/19/2004	3824.07	202.98	0.06	3621.13
MW-58	9/9/2004	3824.07	201.74	0	3622.33
MW-58	10/5/2004	3824.07	198.82	0	3625.25
MW-58	11/19/2004	3824.07	199.30	0.28	3624.97
MW-58	12/7/2004	3824.07	202.14		3621.93
MW-58	1/11/2005	3824.07	200.70	0.58	3623.79
MW-58	2/8/2005	3824.07	200.56	0	3623.51
MW-58	3/8/2005	3824.07	200.87	0	3623.20
MW-58	4/19/2005	3824.07	207.19	0	3616.88
MW-58	5/9/2005	3824.07	207.19	0	3616.88
MW-58	6/21/2005	3824.07	200.04	0	3624.03
MW-58	7/19/2005	3824.07	199.94	0	3624.13
MW-58	8/8/2005	3824.07	200.03	0	3624.04
MW-58	9/20/2005	3824.07	199.02	0	3625.05
MW-58	10/24/2005	3824.07	199.84	0.46	3624.57
MW-58	4/18/2006	3824.07	200.05	0	3624.02
MW-58	10/11/2006	3824.07	199.04	0.2	3625.18
MW-58	4/16/2007	3824.07	200.49	0.52	3623.20
MW-58	10/22/2007	3824.07	199.65	0	3624.42
MW-58	5/27/2009	3824.07	200.73	5.26	3627.18
MW-58	6/21/2010	3824.07	200.74	0.11	3623.41
MW-58	12/28/2010	3824.07	200.71	0.40	3623.65
MW-58	6/30/2011	3824.07	198.01	2.29	3627.73
MW-58	12/15/2011	3824.07	201.30	0.13	3622.86
MW-58	6/27/2012	3824.07	197.05	2.35	3628.74
MW-58	12/1/2012	3824.07	201.80	0.63	3622.73
MW-58	6/1/2013	3824.07	202.38	0.53	3622.08
MW-58	12/12/2013	3824.07	201.15	0.31	3623.15
MW-58	6/25/2014	3824.07	201.56	0	3622.51
MW-58	12/16/2014	3824.07	199.18	0	3624.89
MW-58	4/28/2015	3824.07	199.71	0.02	3624.37
MW-58*	10/13/2015	3824.07	160.00	0	3664.07
MW-58*	5/24/2016	3824.07	195.31	0.001	3628.76
MW-58*	12/6/2016	3824.07	130.48	0.001	3693.59
MW-58*	7/12/2017	3824.07	189.15	0.001	3634.92
MW-58	12/17/2017	3824.07	200.16	0	3623.91
MW-58	7/8/2018	3824.07	184.53	0	3639.54
MW-58	11/13/2018	3824.07	200.56	0	3623.51
MW-58	6/24/2019	3824.07	200.50	0.3	3623.79
MW-58	12/10/2019	3824.07	199.40	0.2	3624.82
MW-58	6/10/2020	3824.07	199.35	0.01	3624.73
MW-58	11/2/2020	3824.07	200.90	0.07	3623.22

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-66	8/21/1991	3828.98	196.77	0	3632.21
MW-66	9/18/1991	3828.98	198.73	0	3630.25
MW-66	10/22/1991	3828.98	199.70	0	3629.28
MW-66	11/15/1991	3828.98	199.88	0	3629.10
MW-66	3/1/1992	3828.98	200.37	0	3628.61
MW-66	4/1/1992	3828.98	200.25	0	3628.73
MW-66	5/1/1992	3828.98	195.25	0	3633.73
MW-66	6/1/1992	3828.98	196.08	0	3632.90
MW-66	7/1/1992	3828.98	197.35	0	3631.63
MW-66	8/1/1992	3828.98	197.77	0	3631.21
MW-66	9/1/1992	3828.98	198.17	0	3630.81
MW-66	10/1/1992	3828.98	198.40	0	3630.58
MW-66	11/1/1992	3828.98	198.76	0	3630.22
MW-66	12/1/1992	3828.98	198.98	0	3630.00
MW-66	1/1/1993	3828.98	199.10	0	3629.88
MW-66	2/1/1993	3828.98	199.23	0	3629.75
MW-66	3/1/1993	3828.98	199.49	0	3629.49
MW-66	4/1/1993	3828.98	199.38	0	3629.60
MW-66	5/1/1993	3828.98	199.63	0	3629.35
MW-66	6/1/1993	3828.98	199.59	0	3629.39
MW-66	7/1/1993	3828.98	199.82	0	3629.16
MW-66	8/1/1993	3828.98	199.78	0	3629.20
MW-66	9/1/1993	3828.98	200.01	0	3628.97
MW-66	10/1/1993	3828.98	200.09	0	3628.89
MW-66	11/1/1993	3828.98	200.35	0	3628.63
MW-66	12/1/1993	3828.98	200.42	0	3628.56
MW-66	1/1/1994	3828.98	200.33	0	3628.65
MW-66	2/1/1994	3828.98	201.39	0	3627.59
MW-66	3/1/1994	3828.98	201.44	0	3627.54
MW-66	4/1/1994	3828.98	201.36	0	3627.62
MW-66	5/1/1994	3828.98	201.26	0	3627.72
MW-66	7/1/1994	3828.98	200.91	0	3628.07
MW-66	8/1/1994	3828.98	199.86	0	3629.12
MW-66	9/1/1994	3828.98	200.66	0	3628.32
MW-66	10/1/1994	3828.98	200.83	0	3628.15
MW-66	12/1/1994	3828.98	201.96	0	3627.02
MW-66	1/1/1995	3828.98	201.04	0	3627.94
MW-66	4/1/1995	3828.98	202.26	0	3626.72
MW-66	7/1/1995	3828.98	201.59	0	3627.39
MW-66	10/1/1995	3828.98	201.62	0	3627.36
MW-66	1/16/1996	3828.98	200.89	0	3628.09
MW-66	4/17/1996	3828.98	202.29	0	3626.69
MW-66	7/16/1996	3828.98	202.45	0	3626.53
MW-66	10/13/1996	3828.98	200.80	0	3628.18
MW-66	2/4/1997	3828.98	202.60	0	3626.38
MW-66	4/28/1997	3828.98	202.84	0	3626.14
MW-66	7/14/1997	3828.98	202.72	0	3626.26
MW-66	9/30/1997	3828.98	204.00	0	3624.98
MW-66	10/9/1997	3828.98	204.20	0	3624.78
MW-66	10/13/1997	3828.98	203.77	0	3625.21
MW-66	1/27/1998	3828.98	203.79	0	3625.19
MW-66	4/27/1998	3828.98	204.09	0	3624.89

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-66	5/28/1998	3828.98	204.18	0	3624.80
MW-66	6/15/1998	3828.98	204.37	0	3624.61
MW-66	10/10/1998	3828.98	204.86	0	3624.12
MW-66	1/27/1999	3828.98	205.05	0	3623.93
MW-66	4/19/1999	3828.98	205.10	0	3623.88
MW-66	1/5/1999	3828.98	205.13	0	3623.85
MW-66	4/26/2000	3828.98	205.41	0	3623.57
MW-66	9/27/2000	3828.98	205.78	0	3623.20
MW-66	4/16/2001	3828.98	205.59	0	3623.39
MW-66	10/29/2001	3828.98	206.04	0	3622.94
MW-66	4/15/2002	3828.98	205.98	0	3623.00
MW-66	10/14/2002	3828.98	199.87	0	3629.11
MW-66	04/15/2003	3828.98	205.39	0	3623.59
MW-66	10/14/2003	3828.98	206.41	0	3622.57
MW-66	4/5/2004	3828.98	206.65	0	3622.33
MW-66	10/5/2004	3828.98	203.05	0	3625.93
MW-66	4/19/2005	3828.98	205.48	0	3623.50
MW-66	10/24/2005	3828.98	204.97	0	3624.01
MW-66	4/18/2006	3828.98	205.44	0	3623.54
MW-66	10/11/2006	3828.98	204.64	0	3624.34
MW-66	4/16/2007	3828.98	205.51	0	3623.47
MW-66	10/22/2007	3828.98	205.29	0	3623.69
MW-66	5/27/2009	3828.98	206.47	0	3622.51
MW-66	6/21/2010	3828.98	206.82	0	3622.16
MW-66	12/28/2010	3828.98	206.46	0	3622.52
MW-66	6/30/2011	3828.98	206.94	0	3622.04
MW-66	12/15/2011	3828.98	207.46	0	3621.52
MW-66	6/27/2012	3828.98	208.46	0	3620.52
MW-66	12/1/2012	3828.98	208.19	0	3620.79
MW-66	6/1/2013	3828.98	208.46	0	3620.52
MW-66	12/12/2013	3828.98	207.25	0	3621.73
MW-66	6/25/2014	3828.98	208.02	0	3620.96
MW-66	12/16/2014	3828.98	205.98	0	3623.00
MW-66	4/28/2015	3828.98	206.73	0	3622.25
MW-66	10/13/2015	3828.98	206.90	0	3622.08
MW-66	5/24/2016	3828.98	207.28	0	3621.70
MW-66	12/6/2016	3828.98	207.91	0	3621.07
MW-66	7/12/2017	3828.98	207.28	0	3621.70
MW-66	12/17/2017	3828.98	206.75	0	3622.23
MW-66	7/8/2018	3828.98	209.58	0	3619.40
MW-66	11/13/2018	3828.98	206.90	0	3622.08
MW-66	6/24/2019	3828.98	206.78	0	3622.20
MW-66	12/10/2019	3828.98	205.96	0	3623.02
MW-66	6/10/2020	3828.98	206.12	0	3622.86
MW-66	11/2/2020	3828.98	206.36	0	3622.62
MW-70	9/18/1991	3822.57	191.59	0	3630.98
MW-70	10/22/1991	3822.57	191.68	0	3630.89
MW-70	11/15/1991	3822.57	192.20	0	3630.37
MW-70	3/1/1992	3822.57	192.74	0	3629.83
MW-70	4/1/1992	3822.57	192.62	0	3629.95
MW-70	5/1/1992	3822.57	189.97	0	3632.60

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-70	6/1/1992	3822.57	188.42	0	3634.15
MW-70	7/1/1992	3822.57	188.87	0	3633.70
MW-70	8/1/1992	3822.57	189.54	0	3633.03
MW-70	9/1/1992	3822.57	190.02	0	3632.55
MW-70	10/1/1992	3822.57	190.48	0	3632.09
MW-70	11/1/1992	3822.57	190.86	0	3631.71
MW-70	12/1/1992	3822.57	191.17	0	3631.40
MW-70	1/1/1993	3822.57	191.39	0	3631.18
MW-70	2/1/1993	3822.57	191.54	0	3631.03
MW-70	3/1/1993	3822.57	191.77	0	3630.80
MW-70	4/1/1993	3822.57	191.80	0	3630.77
MW-70	5/1/1993	3822.57	192.09	0	3630.48
MW-70	6/1/1993	3822.57	192.18	0	3630.39
MW-70	7/1/1993	3822.57	192.32	0	3630.25
MW-70	8/1/1993	3822.57	192.30	0	3630.27
MW-70	9/1/1993	3822.57	192.53	0	3630.04
MW-70	10/1/1993	3822.57	192.65	0	3629.92
MW-70	11/1/1993	3822.57	192.91	0	3629.66
MW-70	12/1/1993	3822.57	192.96	0	3629.61
MW-70	1/1/1994	3822.57	192.99	0	3629.58
MW-70	2/1/1994	3822.57	194.02	0	3628.55
MW-70	3/1/1994	3822.57	194.00	0	3628.57
MW-70	4/1/1994	3822.57	193.19	0	3629.38
MW-70	5/1/1994	3822.57	193.86	0	3628.71
MW-70	7/1/1994	3822.57	193.59	0	3628.98
MW-70	8/1/1994	3822.57	193.09	0	3629.48
MW-70	9/1/1994	3822.57	193.17	0	3629.40
MW-70	10/1/1994	3822.57	193.38	0	3629.19
MW-70	12/1/1994	3822.57	194.58	0	3627.99
MW-70	1/1/1995	3822.57	192.83	0	3629.74
MW-70	4/1/1995	3822.57	194.11	0	3628.46
MW-70	7/1/1995	3822.57	194.19	0	3628.38
MW-70	10/1/1995	3822.57	194.19	0	3628.38
MW-70	1/16/1996	3822.57	194.68	0	3627.89
MW-70	4/17/1996	3822.57	194.94	0	3627.63
MW-70	7/15/1996	3822.57	194.70	0	3627.87
MW-70	10/13/1996	3822.57	193.98	0	3628.59
MW-70	2/3/1997	3822.57	194.47	0	3628.10
MW-70	4/28/1997	3822.57	195.01	0	3627.56
MW-70	7/14/1997	3822.57	195.44	0	3627.13
MW-70	10/1/1997	3822.57	196.20	0	3626.37
MW-70	10/13/1997	3822.57	196.05	0	3626.52
MW-70	10/29/1997	3822.57	196.24	0.01	3626.33
MW-70	11/4/1997	3822.57	196.35	0	3626.22
MW-70	11/12/1997	3822.57	196.34	0	3626.23
MW-70	11/19/1997	3822.57	196.36	0.01	3626.21
MW-70	11/24/1997	3822.57	196.36	0	3626.21
MW-70	12/10/1997	3822.57	196.47	0	3626.10
MW-70	1/27/1998	3822.57	196.22	0	3626.35
MW-70	2/25/1998	3822.57	196.45	0	3626.12
MW-70	4/27/1998	3822.57	196.48	0	3626.09
MW-70	5/28/1998	3822.57	196.91	0	3625.66

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-70	6/15/1998	3822.57	196.74	0	3625.83
MW-70	10/9/1998	3822.57	197.27	0	3625.30
MW-70	1/27/1999	3822.57	199.24	0	3623.33
MW-70	4/19/1999	3822.57	197.40	0	3625.17
MW-70	1/5/2000	3822.57	197.73	0	3624.84
MW-70	4/26/2000	3822.57	197.71	0	3624.86
MW-70	9/27/2000	3822.57	198.02	0	3624.55
MW-70	4/16/2001	3822.57	198.34	0	3624.23
MW-70	10/29/2001	3822.57	198.30	0	3624.27
MW-70	4/15/2002	3822.57	198.85	0	3623.72
MW-70	10/14/2002	3822.57	196.95	0	3625.62
MW-70	04/15/2003	3822.57	198.12	0	3624.45
MW-70	10/14/2003	3822.57	199.14	0	3623.43
MW-70	4/5/2004	3822.57	199.41	0	3623.16
MW-70	10/5/2004	3822.57	197.30	0	3625.27
MW-70	4/19/2005	3822.57	197.70	0	3624.87
MW-70	10/24/2005	3822.57	197.24	0	3625.33
MW-70	4/18/2006	3822.57	198.46	0	3624.11
MW-70	10/11/2006	3822.57	196.99	0	3625.58
MW-70	4/17/2007	3822.57	198.51	0	3624.06
MW-70	10/22/2007	3822.57	198.03	0	3624.54
MW-70	5/27/2009	3822.57	199.45	0	3623.12
MW-70	6/21/2010	3822.57	199.54	0	3623.03
MW-70	12/28/2010	3822.57	199.13	0	3623.44
MW-70	6/30/2011	3822.57	199.75	0	3622.82
MW-70	12/15/2011	3822.57	204.65	0	3617.92
MW-70	6/27/2012	3822.57	201.46	0	3621.11
MW-70	12/1/2012	3822.57	200.14	0	3622.43
MW-70	6/1/2013	3822.57	200.49	0	3622.08
MW-70	12/12/2013	3822.57	NM	NM	NM
MW-70	6/25/2014	3822.57	201.74	0	3620.83
MW-70	12/16/2014	3822.57	198.48	0	3624.09
MW-70	4/28/2015	3822.57	199.29	0	3623.28
MW-70	10/13/2015	3822.57	199.69	0	3622.88
MW-70	5/24/2016	3822.57	200.21	0	3622.36
MW-70	12/6/2016	3822.57	199.86	0	3622.71
MW-70	7/12/2017	3822.57	200.27	0	3622.30
MW-70	12/17/2017	3822.57	199.79	0	3622.78
MW-70	7/8/2018	3822.57	200.17	0	3622.40
MW-70	11/13/2018	3822.57	199.47	0	3623.10
MW-70	6/24/2019	3822.57	199.63	0	3622.94
MW-70	12/10/2019	3822.57	199.04	0	3623.53
MW-70	6/10/2020	3822.57	199.04	0	3623.53
MW-70	11/2/2020	3822.57	199.17	0	3623.40
MW-81	10/1/1995	3817.03	195.77	2.74	3623.26
MW-81	1/16/1996	3817.03	199.04	4.29	3621.12
MW-81	4/17/1996	3817.03	204.35	9.95	3619.94
MW-81	7/16/1996	3817.03	204.26	9.37	3619.61
MW-81	10/13/1996	3817.03	202.11	8.49	3621.11
MW-81	2/4/1997	3817.03	197.25	2.11	3621.32
MW-81	4/28/1997	3817.03	204.40	9.15	3619.30

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 NA = Not Available
 NG = Not Gauged
 NR = No Record

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-81	7/14/1997	3817.03	196.19	1.45	3621.89
MW-81	10/9/1997	3817.03	200.02	0.02	3617.02
MW-81	10/14/1997	3817.03	200.96	0.06	3616.11
MW-81	10/29/1997	3817.03	202.44	1.44	3615.64
MW-81	11/4/1997	3817.03	200.92	0	3616.11
MW-81	11/12/1997	3817.03	200.95	0.25	3616.26
MW-81	11/19/1997	3817.03	200.94	0.01	3616.09
MW-81	11/24/1997	3817.03	200.81	0	3616.22
MW-81	12/10/1997	3817.03	200.85	0	3616.18
MW-81	1/6/1998	3817.03	199.35	0	3617.68
MW-81	1/15/1998	3817.03	199.30	0	3617.73
MW-81	1/20/1998	3817.03	200.89	0.79	3616.71
MW-81	1/27/1998	3817.03	200.14	0.89	3617.53
MW-81	2/3/1998	3817.03	200.88	0.58	3616.57
MW-81	2/10/1998	3817.03	206.74	1.64	3611.48
MW-81	2/17/1998	3817.03	218.70	12.08	3607.14
MW-81	2/25/1998	3817.03	217.41	11.41	3607.94
MW-81	4/27/1998	3817.03	197.05	0	3619.98
MW-81	5/28/1998	3817.03	192.28	0	3624.75
MW-81	6/15/1998	3817.03	197.58	0	3619.45
MW-81	10/11/1998	3817.03	193.23	0	3623.80
MW-81	1/27/1999	3817.03	200.12	0	3616.91
MW-81	4/19/1999	3817.03	200.84	0	3616.19
MW-81	1/5/2000	3817.03	199.38	0	3617.65
MW-81	4/26/2000	3817.03	201.35	0	3615.68
MW-81	9/27/2000	3817.03	202.99	0	3614.04
MW-81	4/16/2001	3817.03	201.94	0	3615.09
MW-81	10/29/2001	3817.03	204.69	0	3609.04
MW-81	4/15/2002	3817.03	193.94	0	3623.09
MW-81	10/14/2002	3817.03	192.80	0	3624.23
MW-81	04/15/2003	3817.03	193.41	0	3623.62
MW-81	10/14/2003	3817.03	194.42	0	3622.61
MW-81	4/5/2004	3817.03	194.58	0	3622.45
MW-81	10/5/2004	3817.03	192.67	2.96	3626.52
MW-81	4/19/2005	3817.03	193.75	0	3623.28
MW-81	10/24/2005	3817.03	192.46	0	3624.57
MW-81	4/18/2006	3817.03	192.78	0	3624.25
MW-81	10/11/2006	3817.03	194.15	2.56	3624.75
MW-81	4/16/2007	3817.03	198.12	6.32	3614.30
MW-81	10/22/2007	3817.03	189.54	0	3627.49
MW-81	5/27/2009	3817.03	193.97	0.10	3623.13
MW-81	6/21/2010	3817.03	194.21	0.22	3622.98
MW-81	12/28/2010	3817.03	193.88	0.26	3623.34
MW-81	6/30/2011	3817.03	194.10	1.23	3623.83
MW-81	12/15/2011	3817.03	194.85	0.3	3622.40
MW-81	6/27/2012	3817.03	195.21	0.32	3622.05
MW-81	12/1/2012	3817.03	195.61	0.29	3621.63
MW-81	6/1/2013	3817.03	196.13	0.2	3621.05
MW-81	12/12/2013	3817.03	194.77	0.23	3622.43
MW-81	6/25/2014	3817.03	195.45	0.24	3621.76
MW-81	12/16/2014	3817.03	183.04	0	3633.99
MW-81	4/28/2015	3817.03	193.71	0	3623.32

D = Dry
NA = Not Available
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NR = No Record

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-81	10/13/2015	3817.03	189.27	0	3627.76
MW-81	5/24/2016	3817.03	194.25	0.001	3622.78
MW-81	12/6/2016	3817.03	193.80	0.001	3623.23
MW-81	7/12/2017	3817.03	195.00	0.73	3622.56
MW-81	12/17/2017	3817.03	193.76	0.001	3623.27
MW-81	7/8/2018	3817.03	192.53	0.001	3624.50
MW-81	11/13/2018	3817.03	193.89	0.001	3623.14
MW-81	6/24/2019	3817.03	194.48	0.69	3623.05
MW-81	12/10/2019	3817.03	193.50	0.45	3623.86
MW-81	6/10/2020	3817.03	193.62	-0.15	3623.30
MW-81	11/2/2020	3817.03	193.64	0.04	3623.42
MW-88	8/1/1996	3789.70	163.59	0	3626.11
MW-88	10/13/1996	3789.70	162.22	0	3627.48
MW-88	2/4/1997	3789.70	163.38	0	3626.32
MW-88	4/28/1997	3789.70	163.54	0	3626.16
MW-88	7/14/1997	3789.70	163.84	0	3625.86
MW-88	10/1/1997	3789.70	164.40	0	3625.30
MW-88	10/9/1997	3789.70	164.38	0	3625.32
MW-88	10/13/1997	3789.70	164.34	0	3625.36
MW-88	1/27/1998	3789.70	164.41	0	3625.29
MW-88	4/27/1998	3789.70	164.84	0	3624.86
MW-88	5/28/1998	3789.70	164.00	0	3625.70
MW-88	6/15/1998	3789.70	164.87	0	3624.83
MW-88	10/10/1998	3789.70	165.38	0	3624.32
MW-88	1/27/1999	3789.70	165.49	0	3624.21
MW-88	4/19/1999	3789.70	165.54	0	3624.16
MW-88	1/5/2000	3789.70	165.62	0	3624.08
MW-88	4/26/2000	3789.70	165.87	0	3623.83
MW-88	9/27/2000	3789.70	166.25	0	3623.45
MW-88	4/16/2001	3789.70	166.21	0	3623.49
MW-88	10/29/2001	3789.70	166.49	0	3623.21
MW-88	4/15/2002	3789.70	166.53	0	3623.17
MW-88	10/14/2002	3789.70	165.52	0	3624.18
MW-88	04/15/2003	3789.70	165.98	0	3623.72
MW-88	10/14/2003	3789.70	166.89	0	3622.81
MW-88	4/5/2004	3789.70	167.15	0	3622.55
MW-88	10/5/2004	3789.70	163.52	0	3626.18
MW-88	4/19/2005	3789.70	166.38	0	3623.32
MW-88	10/24/2005	3789.70	165.67	0	3624.03
MW-88	4/18/2006	3789.70	166.15	0	3623.55
MW-88	10/11/2006	3789.70	165.49	0	3624.21
MW-88	4/16/2007	3789.7	166.11	0	3623.59
MW-88	10/22/2007	3789.70	165.92	0	3623.78
MW-88	5/27/2009	3789.70	166.91	0	3622.79
MW-88	6/21/2010	3789.70	167.28	0	3622.42
MW-88	12/28/2010	3789.70	166.92	0	3622.78
MW-88	6/30/2011	3789.70	167.45	0	3622.25
MW-88	12/15/2011	3789.70	167.81	0	3621.89
MW-88	6/27/2012	3789.70	169.00	0	3620.70
MW-88	12/1/2012	3789.70	168.65	0	3621.05
MW-88	6/1/2013	3789.70	168.96	0	3620.74

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-88	12/12/2013	3789.70	167.90	0	3621.80
MW-88	6/25/2014	3789.70	178.46	0	3611.24
MW-88	12/16/2014	3789.70	166.55	0	3623.15
MW-88	4/28/2015	3789.70	167.16	0	3622.54
MW-88	10/13/2015	3789.70	167.38	0	3622.32
MW-88	5/24/2016	3789.70	167.77	0	3621.93
MW-88	12/6/2016	3789.70	167.37	0	3622.33
MW-88	7/12/2017	3789.70	167.68	0	3622.02
MW-88	12/17/2017	3789.70	167.20	0	3622.50
MW-88	7/8/2018	3789.70	167.54	0	3622.16
MW-88	11/13/2018	3789.70	167.30	0	3622.40
MW-88	6/24/2019	3789.70	167.14	0	3622.56
MW-88	12/10/2019	3789.70	166.49	0	3623.21
MW-88	6/10/2020	3789.70	166.58	0	3623.12
MW-88	11/2/2020	3789.70	167.06	0	3622.64
MW-111	6/19/1998	3824.44	200.24	0	3624.20
MW-111	10/10/1998	3824.44	200.89	0	3623.55
MW-111	1/27/1999	3824.44	201.24	0	3623.20
MW-111	4/19/1999	3824.44	201.26	0	3623.18
MW-111	1/5/2000	3824.44	201.21	0	3623.23
MW-111	4/26/2000	3824.44	201.48	0	3622.96
MW-111	9/27/2000	3824.44	201.66	0	3622.78
MW-111	4/16/2001	3824.44	201.74	0	3622.70
MW-111	10/29/2001	3824.44	201.64	0	3622.80
MW-111	4/15/2002	3824.44	201.83	0	3622.61
MW-111	10/14/2002	3824.44	200.52	0	3623.92
MW-111	04/15/2003	3824.44	201.21	0	3623.23
MW-111	10/14/2003	3824.44	202.50	0	3621.94
MW-111	4/5/2004	3824.44	202.54	0	3621.90
MW-111	10/5/2004	3824.44	200.25	0	3624.19
MW-111	4/19/2005	3824.44	201.09	0	3623.35
MW-111	10/24/2005	3824.44	200.61	0	3623.83
MW-111	4/18/2006	3824.44	201.17	0	3623.27
MW-111	10/11/2006	3824.44	200.06	0	3624.38
MW-111	4/16/2007	3824.44	201.28	0	3623.16
MW-111	10/22/2007	3824.44	201.24	0	3623.20
MW-111	5/27/2009	3824.44	202.50	0	3621.94
MW-111	6/21/2010	3824.44	202.92	0	3621.52
MW-111	12/28/2010	3824.44	202.48	0	3621.96
MW-111	6/30/2011	3824.44	202.94	0	3621.50
MW-111	12/15/2011	3824.44	203.51	0	3620.93
MW-111	6/27/2012	3824.44	204.58	0	3619.86
MW-111	12/1/2012	3824.44	204.20	0	3620.24
MW-111	6/1/2013	3824.44	204.58	0	3619.86
MW-111	12/12/2013	3824.44	202.99	0	3621.45
MW-111	6/25/2014	3824.44	204.10	0	3620.34
MW-111	12/16/2014	3824.44	201.65	0	3622.79
MW-111	4/28/2015	3824.44	202.64	0	3621.80
MW-111	10/13/2015	3824.44	202.92	0	3621.52
MW-111	5/24/2016	3824.44	203.21	0	3621.23
MW-111	12/6/2016	3824.44	202.95	0	3621.49

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-111	7/12/2017	3824.44	203.34	0	3621.10
MW-111	12/17/2017	3824.44	202.95	0	3621.49
MW-111	7/8/2018	3824.44	203.27	0	3621.17
MW-111	11/13/2018	3824.44	203.14	0	3621.30
MW-111	6/24/2019	3824.44	203.20	0	3621.24
MW-111	12/10/2019	3824.44	203.85	0	3620.59
MW-111	6/10/2020	3824.44	202.15	0	3622.29
MW-111	11/2/2020	3824.44	202.62	0	3621.82
MW-113	1/5/2000	3772.67	147.43	0	3625.24
MW-113	4/26/2000	3772.67	148.28	0.88	3625.03
MW-113	9/27/2000	3772.67	147.72	0	3624.95
MW-113	4/16/2001	3772.67	148.11	0.13	3624.65
MW-113	10/29/2001	3772.67	148.95	0.2	3623.87
MW-113	4/15/2002	3772.67	148.72	0.14	3624.05
MW-113	10/14/2002	3772.67	147.33	0	3625.34
MW-113	04/15/2003	3772.67	148.69	0.53	3624.37
MW-113	10/14/2003	3772.67	149.24	0.21	3623.58
MW-113	4/5/2004	3772.67	142.42	0.2	3630.40
MW-113	10/5/2004	3772.67	144.58	0	3628.09
MW-113	4/19/2005	3772.67	147.90	0	3624.77
MW-113	10/24/2005	3772.67	147.51	0	3625.16
MW-113	4/18/2006	3772.67	148.21	0	3624.46
MW-113	10/11/2006	3772.67	147.29	0	3625.38
MW-113	4/17/2007	3772.67	148.61	0.31	3623.83
MW-113	10/22/2007	3772.67	NA	--	--
MW-113	5/27/2009	3772.67	149.10	T	3623.57
MW-113	6/21/2010	3772.67	149.47	0.05	3623.16
MW-113	12/28/2010	3772.67	149.09	0.04	3623.55
MW-113	6/30/2011	3772.67	149.55	0.05	3623.08
MW-113	12/15/2011	3772.67	150.10	0.04	3622.54
MW-113	6/27/2012	3772.67	150.34	0.14	3622.23
MW-113	12/1/2012	3772.67	150.87	0.81	3622.39
MW-113	6/1/2013	3772.67	151.07	0.79	3622.18
MW-113	12/12/2013	3772.67	150.03	0	3622.64
MW-113	6/25/2014	3772.67	150.51	0.01	3622.15
MW-113	12/16/2014	3772.67	148.65	0	3624.02
MW-113	4/28/2015	3772.67	149.34	0	3623.33
MW-113	10/13/2015	3772.67	149.42	0	3623.25
MW-113	5/24/2016	3772.67	149.97	0.001	3622.70
MW-113	12/6/2016	3772.67	149.41	0.001	3623.26
MW-113	7/12/2017	3772.67	149.80	0.001	3622.87
MW-113	12/17/2017	3772.67	149.31	0.001	3623.36
MW-113	7/8/2018	3772.67	149.62	0.001	3623.05
MW-113	11/13/2018	3772.67	149.30	0.001	3623.37
MW-113	6/24/2019	3772.67	149.22	0	3623.45
MW-113	12/10/2019	3772.67	148.62	0	3624.05
MW-113	6/10/2020	3772.67	149.74	0	3622.93
MW-113	11/2/2020	3772.67	149.52	0	3623.15
MW-127	1/5/2000	3825.17	202.12	0	3623.05
MW-127	4/26/2000	3825.17	202.34	0.46	3623.17

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Historic Fluid Level Data

May 1991 - December 2020

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-127	9/27/2000	3825.17	202.00	0	3623.17
MW-127	4/16/2001	3825.17	202.70	0.07	3622.52
MW-127	10/29/2001	3825.17	202.51	0.03	3622.68
MW-127	4/15/2002	3825.17	202.74	0	3622.43
MW-127	10/14/2002	3825.17	200.92	0	3624.25
MW-127	04/15/2003	3825.17	202.50	0	3622.67
MW-127	10/14/2003	3825.17	202.99	0	3622.18
MW-127	4/5/2004	3825.17	203.15	0	3622.02
MW-127	10/5/2004	3825.17	200.48	0	3624.69
MW-127	4/19/2005	3825.17	201.81	0	3623.36
MW-127	10/24/2005	3825.17	201.00	0	3624.17
MW-127	4/18/2006	3825.17	201.80	0	3623.37
MW-127	10/11/2006	3825.17	200.66	0	3624.51
MW-127	4/17/2007	3825.17	202.3	0	3622.87
MW-127	10/22/2007	3825.17	201.97	0	3623.20
MW-127	5/27/2009	3825.17	203.10	0	3622.07
MW-127	6/21/2010	3825.17	203.46	0	3621.71
MW-127	12/28/2010	3825.17	202.88	0	3622.29
MW-127	6/30/2011	3825.17	203.27	0	3621.90
MW-127	12/15/2011	3825.17	203.87	0	3621.30
MW-127	6/27/2012	3825.17	204.95	0	3620.22
MW-127	12/1/2012	3825.17	204.14	0	3621.03
MW-127	6/1/2013	3825.17	204.95	0	3620.22
MW-127	12/12/2013	3825.17	203.39	0	3621.78
MW-127	6/25/2014	3825.17	204.47	0	3620.70
MW-127	12/16/2014	3825.17	202.08	0	3623.09
MW-127	4/28/2015	3825.17	203.03	0	3622.14
MW-127	10/13/2015	3825.17	203.13	0	3622.04
MW-127	5/24/2016	3825.17	203.56	0	3621.61
MW-127	12/6/2016	3825.17	203.26	0	3621.91
MW-127	7/12/2017	3825.17	203.70	0	3621.47
MW-127	12/17/2017	3825.17	203.27	0	3621.90
MW-127	7/8/2018	3825.17	203.63	0	3621.54
MW-127	11/13/2018	3825.17	203.30	0	3621.87
MW-127	6/24/2019	3825.17	208.23	0	3616.94
MW-127	12/10/2019	3825.17	202.18	0	3622.99
MW-127	6/10/2020	3825.17	202.39	0	3622.78
MW-127	11/2/2020	3825.17	202.76	0	3622.41

Notes:

* MW-77 DTW does not agree with historical data.

D = Dry
 NA = Not Available
 NG = Not Gauged
 NR = No Record

APPENDIX B

Historical Analytical Data

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-14	09/01/91	5100	--	--	--
MW-14	06/22/98	820	<10	840	<10
MW-14	04/18/02	116	9	<5	<5
MW-14	10/16/02	23	<5	5	<5
MW-14	04/09/03	<5	<5	<5	<5
MW-14	10/24/03	330	<5	<5	<5
MW-14		Not Sampled - Condensate Present			
MW-14	04/25/05	174	<5	<5	<15
MW-14	04/27/06	31.9	<2.74	<2.03	<5.81
MW-14	04/20/07	30	<5	<5	<15
MW-14	05/27/09	1.1	<1	1.1	17
MW-14	06/23/10	1.1	<1	2.9	19.4
MW-14	06/30/11	Not Sampled - not enough water to collect sample			
MW-14	06/28/12	Not Sampled - not enough water to collect sample			
MW-14	06/28/13	Not Sampled - not enough water to collect sample			
MW-14	06/26/14	2.6	<1	<1	<3
MW-14	04/30/15	2.6	<1	<1	<3
MW-14	05/25/16	<1	<1	<1	<3
MW-14	07/12/17	<1	<1	<1	<3
MW-14	06/13/18	Not Sampled - not enough water to collect sample			
MW-14	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-14	06/10/20	<0.56	1.58	<1.29	<1.98
MW-45	06/01/91	<1	--	--	--
MW-45	06/22/91	--	<1	<1	<1
MW-45	09/01/91	<1	--	--	--
MW-45	12/01/91	<1	<1	<1	<1
MW-45	07/15/93	<3	6	7	4
MW-45	10/14/93	<3	3	<3	3
MW-45	01/13/94	<0.5	<0.5	<0.5	<0.5
MW-45	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-45	07/20/94	<0.5	<0.5	<0.5	<0.5
MW-45	05/29/09	<1	<1	<1	1.7
MW-45	06/23/10	<1	<1	<1	<1
MW-45	07/01/11	<1	<1	<1	<3
MW-45	06/28/12	28.7	<1	0.57	<3
MW-45	06/28/13	Not Sampled - not enough water to collect sample			
MW-45	06/26/14	<1	<1	<1	<3
MW-45	04/30/15	<1	<1	<1	<3
MW-45	05/25/16	<1	<1	<1	<3
MW-45	07/13/17	<1	<1	<1	<3
MW-45	06/13/18	<1	<1	<1	<1
MW-45	06/24/19	<0.56	<0.55	<1.29	<1.98
MW-45	06/10/20	<0.56	0.934	<1.29	<1.98
MW-46	06/01/91	3200	--	--	--
MW-46	06/22/91	--	<50	900	<50
MW-46	07/01/91	300	--	--	--
MW-46	07/19/91	--	<50	250	--
MW-46	07/30/91	--	--	--	250
MW-46	09/01/91	140	--	--	--
MW-46	10/01/96	900	33	440	59
MW-46	02/11/97	3300	550	1000	1400
MW-46	05/29/97	5000	1200	230	<100
MW-46	07/18/97	6100	1900	270	130
MW-46	04/30/98	1600	41	140	290
MW-46	07/01/98	1700	<5	97	120
MW-46	04/20/99	210	<5	11	20
MW-46	12/08/99	50	43	34	129

Notes:

Concentrations listed in micrograms per liter (µg/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-46	04/28/00	17	<1	<1	<1
MW-46	10/02/00	12	39	19	128
MW-46	04/19/01	<5	<5	<5	<10
MW-46	10/31/01	<100	<100	<100	<200
MW-46	04/17/02	<5	<5	<5	<5
MW-46	10/16/02	14	<5	<5	<5
MW-46	04/09/03	<5	<5	<5	<5
MW-46		Not Sampled - Dry			
MW-46	04/08/04	10	<5	<5	<5
MW-46	04/27/05	<5	<5	<5	<15
MW-46		Not Sampled - Dry			
MW-46	04/23/07	81.4	<5	<5	<15
MW-46	05/27/09	<1	<1	<1	1.1
MW-46	06/23/10	<1	<1	<1	<1
MW-46	06/30/11	Not Sampled - not enough water to collect sample			
MW-46	06/28/12	Not Sampled - not enough water to collect sample			
MW-46	06/28/13	Not Sampled - not enough water to collect sample			
MW-46	06/26/14	220	<1	32.9	68.2
MW-46	04/30/15	Not Sampled - not enough water to collect sample			
MW-46	07/13/17	Not Sampled - not enough water to collect sample			
MW-46	06/13/18	Not Sampled - not enough water to collect sample			
MW-46	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-46	06/10/20	<0.56	1.18	<1.29	<1.98
MW-49	06/01/91	60	--	--	--
MW-49	06/22/91	--	<10	60	40
MW-49	09/01/91	35	--	--	--
MW-49	07/15/93	210	27	42	30
MW-49	10/14/93	68	26	9	20
MW-49	01/13/94	13	<5	15	110
MW-49	04/06/94	82	<0.5	11	10
MW-49	07/20/94	150	<5	32	27
MW-49	10/05/94	78	49	40	300
MW-49	01/11/95	220	<5	46	97
MW-49	04/06/95	120	<0.5	24	26
MW-49	07/21/95	17	<0.5	3.5	3.4
MW-49	10/12/95	240	<50	59	130
MW-49	01/20/96	160	130	120	570
MW-49	04/19/96	87	23	18	32
MW-49	07/01/96	370	220	190	630
MW-49	10/01/96	95	16	36	12
MW-49	02/07/97	79	66	45	160
MW-49	07/18/97	130	<1	35	9.8
MW-49	04/30/98	130	39	41	69
MW-49	07/01/98	78	<1	15	<1
MW-49	04/20/99	81	<5	32	<10
MW-49	12/08/99	32	68	58	380
MW-49	04/27/00	24	<1	12	<1
MW-49	10/02/00	35	38	18	107
MW-49	04/17/01	21	36	16	117
MW-49	10/31/01	21	<5	<5	<10
MW-49	04/17/02	19	<5	<5	<5
MW-49	10/16/02	31	<5	<5	<5
MW-49	04/08/03	71	<5	<5	<5
MW-49	10/28/03	97	<5	<5	<5
MW-49	04/08/04	76	<5	<5	<5
MW-49	04/25/05	<5	<5	<5	<15
MW-49	04/26/06	23	<2.74	<2.03	<5.81
MW-49	04/20/07	26	<5	<5	<15
MW-49	05/28/09	37	<1	<1	1.2
MW-49	06/23/10	24	<1	<1	<1
MW-49	07/01/11	48	<1	<1	<3

Notes:

Concentrations listed in micrograms per liter (µg/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-49	06/28/12	<1	<1	<1	<3
MW-49	06/28/13	34.1	<1	<1	<3
MW-49	06/26/14	44.1	<1	<1	<3
MW-49	04/30/15	1.3	<1	<1	<3
MW-49	05/25/16	13.4	<1	<1	<3
MW-49	07/12/17	13.6	<1	0.38 J	<3
MW-49	06/13/18	20.8	<1	<1	<1
MW-49	06/24/19	11.5	<0.55	<1.29	<1.98
MW-49	06/10/20	15.4	1.02	<1.29	<1.98
MW-58	09/01/91	40	--	--	--
MW-58	12/01/91	90	40	20	80
MW-58	04/01/92	203	32	56	68
MW-58	07/01/92	178	58	32	44
MW-58	10/01/92	190	49	26	57
MW-58	01/01/93	192	30	23	39
MW-58	04/13/93	55	16	31	9
MW-58	07/13/93	25	42	14	13
MW-58	10/13/93	50	21	212	555
MW-58	04/05/94	<2.5	<2.5	7.4	27
MW-58	07/19/94	2	29	4.5	27
MW-58	10/06/94	6.7	<5	15	39
MW-58	04/08/95	2.2	<0.5	2.1	6.8
MW-58	10/01/96	110	320	940	10000
MW-58	01/30/98	350	23	42	96
MW-58	06/22/98	22	<1	28	35
MW-58	06/28/13	Not Sampled - Condensate Present			
MW-58	06/28/14	Not Sampled - Condensate Present			
MW-58	04/30/15	Not Sampled - Condensate Present			
MW-58	07/13/17	Not Sampled - Condensate Present			
MW-58	06/13/18	Not Sampled - Condensate Present			
MW-58	06/25/19	Not Sampled - Condensate Present			
MW-58	06/10/20	Not Sampled - Condensate Present			
MW-66	09/01/91	<1	--	--	--
MW-66	12/01/91	<1	<1	<1	<1
MW-66	04/01/92	4	7	<3	4
MW-66	07/01/92	8	25	7	11
MW-66	10/01/92	12	36	<3	34
MW-66	01/01/93	3	6	3	20
MW-66	04/13/93	<3	5	5	<3
MW-66	07/13/93	8	4	<3	<3
MW-66	10/12/93	13	60	4	29
MW-66	11/10/93	<4	<4	<4	<4
MW-66	01/11/94	<0.5	<0.5	<0.5	0.6
MW-66	04/07/94	<0.5	<0.5	<0.5	<0.5
MW-66	07/19/94	<0.5	0.6	<0.5	0.8
MW-66	10/04/94	<0.5	3	1.5	17
MW-66	01/09/95	<0.5	<0.5	<0.5	<0.5
MW-66	04/11/95	<0.5	<0.5	<0.5	<0.5
MW-66	07/19/95	<0.5	0.9	<0.5	<0.5
MW-66	10/10/95	<0.5	<0.5	<0.5	3.5
MW-66	01/19/96	<0.5	<0.5	<0.5	<0.5
MW-66	04/17/96	<0.5	0.8	<0.5	1
MW-66	07/01/96	<0.5	<0.5	<0.5	0.5
MW-66	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-66	02/05/97	<0.5	<0.5	<0.5	<0.5
MW-66	05/06/97	<0.5	<0.5	<0.5	<0.5
MW-66	07/16/97	<0.5	<0.5	<0.5	<0.5
MW-66	10/15/97	<0.5	<0.5	<0.5	<0.5
MW-66	01/29/98	<0.5	<0.5	<0.5	<0.5
MW-66	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-66	06/17/98	<1	1.6	<1	<1
MW-66	10/11/98	<0.5	<0.5	<0.5	<0.5
MW-66	02/01/99	<0.5	<0.5	<0.5	<0.5
MW-66	04/21/99	<5	<5	<5	<10

Notes:

Concentrations listed in micrograms per liter (ug/L)

<5 Constituent not detected above noted laboratory detection limit

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Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-66	12/10/99	<5	<5	<5	<10
MW-66	04/27/00	<1	<1	<1	<1
MW-66	10/05/00	<5	<5	<5	<10
MW-66	04/18/01	<5	<5	<5	<15
MW-66	11/01/01	<5	<5	<5	<10
MW-66	04/19/02	<5	<5	<5	<5
MW-66	10/16/02	<5	<5	<5	<5
MW-66	04/08/03	<5	<5	<5	<5
MW-66	10/22/03	<5	<5	<5	<5
MW-66	04/06/04	<5	<5	<5	<5
MW-66	04/21/05	<5	<5	<5	<15
MW-66	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-66	04/18/07	<5	<5	<5	<15
MW-66	05/27/09	<1	<1	<1	<1
MW-66	06/22/10	<1	<1	<1	<1
MW-66	06/30/11	<1	<1	<1	<3
MW-66	06/28/12	<1	<1	<1	<3
MW-66	06/28/13	<1	17.9	<1	<3
MW-66	06/27/14	<1	<1	<1	<3
MW-66	04/29/15	<1	<1	<1	<3
MW-66	05/24/16	<1	<1	<1	<3
MW-66	07/13/17	<1	<1	<1	<3
DUP-1	07/13/17	<1	<1	<1	<3
MW-66	06/12/18	<1	0.38 J	<1	<1
MW-66	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-66	06/09/20	<0.56	<0.55	<1.29	<1.98
MW-70	09/01/91	<1	--	--	--
MW-70	12/01/91	<1	<1	<1	<1
MW-70	04/01/92	3	17	<3	8
MW-70	07/01/92	<1	3	1	13
MW-70	10/01/92	11	40	63	60
MW-70	01/01/93	<3	<3	8	5
MW-70	04/14/93	9	20	<3	4
MW-70	07/13/93	<1	11	3	<3
MW-70	10/12/93	25	19	19	18
MW-70	11/10/93	<4	<4	<4	40
MW-70	01/11/94	<0.5	0.6	<0.5	<0.5
MW-70	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-70	07/18/94	<0.5	<0.5	<0.5	<0.5
MW-70	10/04/94	1.2	4.3	1.3	12
MW-70	01/09/95	<0.5	2.3	<0.5	2.4
MW-70	04/05/95	<0.5	<0.5	<0.5	1.1
MW-70	07/18/95	<0.5	0.8	<0.5	<0.5
MW-70	10/10/95	<0.5	<0.5	<0.5	<0.5
MW-70	01/18/96	<0.5	<0.5	<0.5	<0.5
MW-70	04/17/96	<0.5	<0.5	<0.5	<0.5
MW-70	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-70	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-70	02/05/97	<0.5	<0.5	<0.5	<0.5
MW-70	10/15/97	<0.5	<0.5	<0.5	<0.5
MW-70	06/16/98	<1	<1	<1	<1
MW-70	04/22/99	<5	<5	<5	<10
MW-70	04/28/00	<1	<1	<1	<1
MW-70	10/03/00	<5	<5	<5	<10
MW-70	04/24/01	<5	<5	<5	<15
MW-70	04/18/02	<5	<5	<5	<5
MW-70	04/06/03	<5	<5	<5	<5
MW-70	04/12/04	<5	<5	<5	<5
MW-70	04/26/05	<5	<5	<5	<15
MW-70	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-70	04/24/07	<5	<5	<5	<15
MW-70	05/27/09	<1	<1	<1	<1
MW-70	06/23/10	<1	<1	<1	<1

Notes:

Concentrations listed in micrograms per liter (µg/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-70	06/30/11	<1	<1	<1	<3
MW-70	06/28/12	<1	<1	<1	<3
MW-70	06/28/13	<1	1.5	<1	<3
MW-70	06/27/14	NS - Well not accessible due to flooding			
MW-70	04/29/15	<1	<1	<1	<3
MW-70	05/24/16	<1	<1	<1	<3
MW-70	07/13/17	<1	<1	<1	<3
MW-70	06/13/18	<1	<1	<1	<1
MW-70	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-70	06/09/20	<0.56	0.837	<1.29	<1.98
MW-77	07/21/95	<0.5	<0.5	1.9	2.8
MW-77	01/20/96	<0.5	3.1	<0.5	7.1
MW-77	04/19/96	<0.5	3.8	0.8	2.5
MW-77	07/01/96	8	14	19	35
MW-77	10/01/96	160	320	150	1000
MW-77	05/07/97	8.4	70	8.3	52
MW-77	07/18/97	14	30	11	71
MW-77	12/09/99	<5	<5	<5	<10
MW-77	10/03/00	<5	<5	<5	24
MW-77		Not Sampled - Condensate Present			
MW-77		Not Sampled - Dry			
MW-77	10/21/02	<5	<5	<5	<5
MW-77	04/10/03	<5	<5	<5	<5
MW-77	10/24/03	<5	<5	<5	<5
MW-77	04/07/04	<5	<5	<5	<5
MW-77	04/27/05	<5	<5	<5	<15
MW-77	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-77	04/18/07	<5	<5	<5	<15
MW-77	06/23/10	<1	<1	<1	<1
MW-77	06/30/11	<1	<1	<1	<3
MW-77	06/28/12	Not Sampled - not enough water to collect sample			
MW-77	06/28/13	Not Sampled - not enough water to collect sample			
MW-77	06/26/14	<1	<1	<1	<3
MW-77	04/30/15	Not Sampled - not enough water to collect sample			
MW-77	07/13/17	Not Sampled - not enough water to collect sample			
MW-77	06/13/18	Not Sampled - not enough water to collect sample			
MW-77	06/25/19	Not Sampled - not enough water to collect sample			
MW-77	06/10/20	Not Sampled - not enough water to collect sample			
MW-81	06/29/98	<1	<1	<1	1.5
MW-81	06/26/14	Not Sampled - Condensate Present			
MW-81	04/30/15	Not Sampled - Condensate Present			
MW-81	05/24/16	Not Sampled - Condensate Present			
MW-81	07/13/17	Not Sampled - Condensate Present			
MW-81	06/13/18	Not Sampled - Condensate Present			
MW-81	06/25/19	Not Sampled - Condensate Present			
MW-81	06/10/20	Not Sampled - Condensate Present			
MW-88	08/01/96	<0.5	1.1	0.5	1
MW-88	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-88	02/05/97	<0.5	<0.5	<0.5	<0.5
MW-88	04/30/97	<0.5	<0.5	<0.5	<0.5
MW-88	10/15/97	<0.5	<0.5	<0.5	<0.5
MW-88	01/29/98	<0.5	<0.5	<0.5	<0.5
MW-88	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-88	06/27/98	<1	<1	<1	<1
MW-88	10/11/98	<0.5	<0.5	<0.5	<0.5
MW-88	02/01/99	1.6	1.8	1.6	4.8
MW-88	04/21/99	<5	<5	<5	<10
MW-88	12/10/99	<5	<5	<5	<10
MW-88	04/28/00	<1	<1	<1	<1
MW-88	10/02/00	<5	<5	<5	<5
MW-88	04/17/01	<5	<5	<5	<15
MW-88	10/31/01	<5	<5	<5	<10
MW-88	04/19/02	<5	<5	<5	<5
MW-88	10/16/02	<5	<5	<5	<5

Notes:

Concentrations listed in micrograms per liter (µg/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-88	04/08/03	<5	<5	<5	<5
MW-88	10/21/03	<5	<5	<5	<5
MW-88	04/06/04	<5	<5	<5	<5
MW-88	04/21/05	<5	<5	<5	<15
MW-88	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-88	04/19/07	<5	<5	<5	<15
MW-88	05/27/09	<1	<1	<1	<1
MW-88	06/22/10	<1	<1	<1	<1
MW-88	06/30/11	<1	<1	<1	<3
MW-88	06/28/12	<1	<1	<1	<3
MW-88	06/28/13	<1	5.3	<1	<3
MW-88	06/26/14	<1	<1	<1	<3
MW-88	04/29/15	<1	<1	<1	<3
MW-88	05/24/16	<1	<1	<1	<3
MW-88	07/13/17	<1	<1	<1	<3
MW-88	06/13/18	<1	<1	<1	<1
MW-88	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-88	06/09/20	<0.56	0.704	<1.29	<1.98
MW-106	02/11/97	<0.5	<0.5	<0.5	<0.5
MW-106	05/07/97	<0.5	<0.5	<0.5	<0.5
MW-106	07/18/97	<0.5	<0.5	<0.5	<0.5
MW-106	04/30/98	<0.5	<0.5	<0.5	<0.5
MW-106	06/28/98	<1	<1	<1	<1
MW-106	04/29/99	<5	<5	<5	<10
MW-106	12/08/99	<5	<5	<5	<10
MW-106	05/01/00	<1	<1	<1	<1
MW-106	10/02/00	<5	<5	<5	<10
MW-106	04/18/01	<5	9.4	<5	<15
MW-106	10/31/01	<5	<5	<5	<10
MW-106	04/17/02	<5	<5	<5	<5
MW-106	10/16/02	<5	7	<5	<5
MW-106	04/09/03	<5	<5	<5	<5
MW-106	10/21/03	<5	<5	<5	<5
MW-106	04/05/04	<5	<5	<5	<5
MW-106	04/20/05	<5	<5	<5	<15
MW-106	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-106	04/18/07	<5	<5	<5	<15
MW-106	06/23/10	<1	<1	<1	<1
MW-106	06/30/11	<1	<1	<1	<3
MW-106	06/28/12	<1	<1	<1	<3
MW-106	06/28/13	<1	1.8	<1	<3
MW-106	06/26/14	<1	<1	<1	<3
MW-106	04/30/15	<1	<1	<1	<3
MW-106	05/23/16	<1	<1	<1	<3
MW-106	07/13/17	<1	<1	<1	<3
MW-106	06/13/18	<1	<1	<1	<1
MW-106	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-106	06/09/20	<0.56	0.813	<1.29	<1.98
MW-111	06/29/98	<1	<1	<1	<1
MW-111	10/11/98	<0.5	<0.5	<0.5	<0.5
MW-111	02/01/99	<0.5	0.8	<0.5	<0.5
MW-111	04/21/99	<5	<5	<5	<10
MW-111	12/13/99	<5	<5	<5	<10
MW-111	04/27/00	<1	<1	<1	<1
MW-111	10/05/00	<5	<5	<5	<10
MW-111	04/18/01	<5	<5	<5	<15
MW-111	11/02/01	<5	<5	<5	<10
MW-111	04/19/02	<5	<5	<5	<5
MW-111	10/16/02	<5	<5	<5	<5
MW-111	04/07/03	<5	<5	<5	6
MW-111	10/22/03	<5	<5	<5	<5
MW-111	04/07/04	<5	<5	<5	5
MW-111	04/21/05	<5	<5	<5	<15
MW-111	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-111	04/18/07	<5	<5	<5	<15

Notes:

Concentrations listed in micrograms per liter (ug/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-111	05/27/09	<1	<1	<1	<1
MW-111	06/22/10	<1	<1	<1	<1
MW-111	06/30/11	<1	<1	<1	<3
MW-111	06/28/12	<1	<1	<1	<3
MW-111	06/28/13	<1	3.9	<1	<3
MW-111	06/27/14	<1	<1	<1	<3
MW-111	04/30/15	<1	<1	<1	<3
MW-111	05/24/16	<1	<1	<1	<3
MW-111	07/13/17	<1	<1	<1	<3
MW-111	06/13/18	<1	<1	<1	<1
MW-111	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-111	06/09/20	<0.56	<0.55	<1.29	<1.98
MW-113	08/11/99	140	<5	59	390
MW-113	06/27/14		NS - Condensate Present		
MW-113	04/30/15		NS - Condensate Present		
MW-113	07/13/17		NS - Condensate Present		
MW-113	06/13/18		NS - Condensate Present		
MW-113	06/25/19		NS - Condensate Present		
MW-113	06/10/20		NS - Condensate Present		
MW-127	12/28/99	190	7.1	38	16
MW-127	05/28/09	<1	<1	<1	1.4
MW-127	06/23/10	<1	<1	<1	2.2
MW-127	07/01/11	<1	<1	<1	<3
MW-127	06/28/12	<1	<1	<1	<3
MW-127	06/28/13	<1	2.8	0.48 J	<3
MW-127	06/26/14	<1	<1	<1	<3
MW-127	04/30/15	<1	<1	<1	<3
MW-127	05/24/16	<1	<1	<1	<3
MW-127	07/13/17	<1	<1	<1	<3
MW-127	06/14/18	<1	<1	<1	<1
MW-127	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-127	06/10/20	<0.56	0.927	<1.29	<1.98
MW-127 (DUP-1)	06/10/20	<0.56	0.569	<1.29	<1.98

Notes:

Concentrations listed in micrograms per liter (µg/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

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Wet Chemistry, 1991 through 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Station or Well Name	Sample Collection Date	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
		New Mexico Standards 1,000	250
MW-014	6/22/1998	1,400	330
MW-014	4/18/2002	1,200	300
MW-014	10/24/2003	1,100	150
MW-014 (Dup 1)	10/24/2003	1,000	140
MW-014	4/25/2005	1,130	230
MW-014 (Dup 1)	4/25/2005	1,100	232
MW-014	4/27/2006	1,110	209
MW-014 (Dup 1)	4/27/2006	1,110	207
MW-014	4/20/2007	1,060	196
MW-014 (Dup 1)	4/20/2007	1,010	194
MW-014	6/25/2014	1,430	61.6
MW-014	4/30/2015	1,320	268
MW-014	5/25/2016	1,400	266
MW-014	7/12/2017	1,610	240
MW-014	6/25/2019	2,530	124
MW-014	6/10/2020	1,360	132
MW-045	6/1/1991	5,440	507
MW-045	9/1/1991	3,920	NA
MW-045	12/1/1991	NA	354
MW-045	7/15/1993	NA	434
MW-045	10/14/1993	NA	408
MW-045	1/13/1994	NA	440
MW-045	4/6/1994	NA	430
MW-045	7/20/1994	NA	429
MW-045	5/29/2009	2,540	174
MW-045	6/23/2010	4,190	473
MW-045	7/1/2011	3,630	208
MW-045	6/28/2012	3,840	314
MW-045	6/25/2014	4,120	98.7
MW-045	4/30/2015	5,990	209
MW-045	5/25/2016	5,400	238
MW-045 (Dup 1)	5/25/2016	5,340	245
MW-045	7/13/2017	5,620	308
MW-045	6/13/2018	5,090	256
MW-045	6/24/2019	5,500	177
MW-045 (Dup 1)	6/24/2019	5,300	127
MW-045	6/10/2020	5,230	150
MW-046	6/1/1991	1,220	152
MW-046	7/1/1991	NA	45
MW-046	10/1/1996	NA	170
MW-046	2/11/1997	NA	220
MW-046	5/29/1997	1,300	132
MW-046	7/18/1997	NA	180
MW-046	6/21/1998	940	140

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

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Wet Chemistry, 1991 through 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1,000	250
MW-046	4/20/1999	580	31
MW-046	4/28/2000	565	25.8
MW-046	4/19/2001	570	47
MW-046	4/17/2002	490	37
MW-046	4/8/2004	<u>2,300</u>	<u>340</u>
MW-046	4/27/2005	<u>1,090</u>	116
MW-046	4/23/2007	<u>1,770</u>	132
MW-046	6/25/2014	870	103
MW-046	6/25/2019	<u>3,880</u>	192
MW-046	6/25/2020	<u>1,630</u>	125
MW-049	6/1/1991	3,910	365
MW-049	6/25/1991	NA	NA
MW-049	7/15/1993	NA	<u>399</u>
MW-049	10/14/1993	NA	<u>397</u>
MW-049	1/13/1994	NA	<u>400</u>
MW-049	4/6/1994	NA	<u>380</u>
MW-049	7/20/1994	NA	<u>368</u>
MW-049	10/5/1994	NA	<u>380</u>
MW-049	1/11/1995	NA	<u>389</u>
MW-049	4/6/1995	NA	<u>390</u>
MW-049	7/21/1995	NA	<u>380</u>
MW-049	10/12/1995	NA	<u>350</u>
MW-049	1/20/1996	NA	<u>410</u>
MW-049	4/19/1996	NA	<u>400</u>
MW-049	7/1/1996	NA	<u>360</u>
MW-049	10/1/1996	NA	36
MW-049	2/7/1997	NA	<u>410</u>
MW-049	3/20/1997	<u>3,100</u>	NA
MW-049	7/18/1997	NA	<u>350</u>
MW-049	6/21/1998	<u>2,800</u>	<u>630</u>
MW-049	4/20/1999	<u>3,000</u>	<u>410</u>
MW-049	4/27/2000	<u>3,320</u>	<u>379</u>
MW-049	4/17/2001	<u>3,100</u>	<u>350</u>
MW-049	4/17/2002	<u>2,600</u>	<u>450</u>
MW-049	10/28/2003	<u>2,900</u>	<u>570</u>
MW-049	4/9/2004	<u>2,900</u>	<u>440</u>
MW-049 (Dup-1)	4/9/2004	<u>3,000</u>	<u>410</u>
MW-049	4/25/2005	<u>3,960</u>	<u>345</u>
MW-049	4/26/2006	<u>3,400</u>	<u>318</u>
MW-049	4/20/2007	<u>2,990</u>	<u>325</u>
MW-049	5/28/2009	<u>3,090</u>	<u>370</u>
MW-049	6/23/2010	<u>2,650</u>	<u>408</u>
MW-049	7/1/2011	<u>3,250</u>	<u>347</u>
MW-049	6/28/2012	<u>3,640</u>	<u>325</u>
MW-049	6/28/2013	<u>4,290</u>	<u>289</u>
MW-049	6/25/2014	<u>3,570</u>	<u>356</u>
MW-049	4/30/2015	<u>5,220</u>	<u>464</u>

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

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Wet Chemistry, 1991 through 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1,000	250
MW-049	5/25/2016	<u>4,900</u>	<u>379</u>
MW-049	7/12/2017	<u>4,390</u>	<u>355</u>
MW-049	6/13/2018	<u>3,780</u>	<u>314</u>
MW-049	6/24/2019	<u>3,540</u>	<u>285</u>
MW-049	6/10/2020	<u>4,000</u>	<u>491</u>
MW-058	12/1/1991	NA	124
MW-058	4/1/1992	NA	156
MW-058	7/1/1992	NA	149
MW-058	10/1/1992	NA	155
MW-058	1/1/1993	NA	175
MW-058	4/13/1993	NA	133
MW-058	7/13/1993	NA	133
MW-058	10/13/1993	NA	59
MW-058	4/5/1994	NA	48
MW-058	7/19/1994	NA	38
MW-058	10/6/1994	NA	36
MW-058	1/11/1995	NA	26
MW-058	4/8/1995	NA	39
MW-058	4/18/1996	NA	29
MW-058	10/1/1996	NA	38
MW-058	6/22/1998	760	42
MW-058	12/1/1991	NA	124
MW-058	4/1/1992	NA	156
MW-058	7/1/1992	NA	149
MW-058	10/1/1992	NA	155
MW-058	1/1/1993	NA	175
MW-058	4/13/1993	NA	133
MW-058	7/13/1993	NA	133
MW-058	10/13/1993	NA	59
MW-058	4/5/1994	NA	48
MW-058	7/19/1994	NA	38
MW-058	10/6/1994	NA	36
MW-058	1/11/1995	NA	26
MW-058	4/8/1995	NA	39
MW-058	4/18/1996	NA	29
MW-058	10/1/1996	NA	38
MW-058	6/22/1998	760	42
MW-066	12/1/1991	NA	9
MW-066	4/1/1992	NA	8
MW-066	7/1/1991	NA	8
MW-066	10/1/1992	NA	8
MW-066	1/1/1993	NA	12
MW-066	4/13/1993	NA	8
MW-066	7/13/1993	NA	15
MW-066	10/12/1993	NA	7
MW-066	1/1/1994	NA	9

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

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Wet Chemistry, 1991 through 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1,000	250
MW-066	4/7/1994	NA	8.7
MW-066	7/19/1994	NA	<5
MW-066	104/94	NA	8.8
MW-066	1/9/1995	NA	6
MW-066	4/11/1995	NA	8.9
MW-066	7/19/1995	NA	8
MW-066	10/10/1995	NA	9
MW-066	1/19/1996	NA	10
MW-066	4/17/1996	NA	9.6
MW-066	7/1/1996	NA	6
MW-066	10/1/1996	NA	7
MW-066	2/5/1997	NA	9
MW-066	5/6/1997	NA	9
MW-066	7/16/1997	NA	8
MW-066	10/15/1997	NA	NA
MW-066	6/17/1998	760	13
MW-066	4/21/1999	730	10
MW-066	4/27/2000	848	8.61
MW-066	4/18/2001	660	9.3
MW-066	4/19/2002	790	8.8
MW-066	10/22/2003	770	8.4
MW-066	4/6/2004	810	8.0
MW-066	4/21/2005	867	10.8
MW-066	4/19/2006	797	11.1
MW-066	4/18/2007	795	10.5
MW-066	5/27/2009	865	8.29
MW-066	6/22/2010	768	9.09
MW-066	6/30/2011	817	8.60
MW-066	6/28/2012	687	9.6
MW-066	6/25/2014	793	8.5
MW-066	4/29/2015	822	9.5
MW-066	5/24/2016	839	8.1
MW-066	7/13/2017	808	8.4
DUP-1	7/13/2017	819	8.5
MW-066	6/12/2018	857	8.6
MW-066	6/25/2019	860	8.1
MW-066	6/9/2020	920	11.4
MW-070	12/1/1991	NA	10
MW-070	4/1/1992	NA	8
MW-070	7/1/1992	NA	9.2
MW-070	10/1/1992	NA	17
MW-070	1/1/1993	NA	8
MW-070	4/14/1993	NA	8
MW-070	7/13/1993	NA	8
MW-070	10/12/1993	NA	11
MW-070	1/11/1994	NA	10
MW-070	4/6/1994	NA	9.5

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

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Wet Chemistry, 1991 through 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1,000	250
MW-070	7/18/1994	NA	8
MW-070	10/4/1994	NA	9.5
MW-070	1/9/1995	NA	9
MW-070	4/5/1995	NA	9.7
MW-070	7/18/1995	NA	9
MW-070	10/10/1995	NA	10
MW-070	1/18/1996	NA	11
MW-070	4/17/1996	NA	9.7
MW-070	7/1/1996	NA	8
MW-070	10/1/1996	NA	10
MW-070	2/5/1997	NA	10
MW-070	10/15/1997	NA	NA
MW-070	6/16/1998	370	12
MW-070	4/22/1999	310	11
MW-070	4/27/2000	385	8.61
MW-070	4/24/2001	270	9.8
MW-070	4/18/2002	310	15
MW-070	10/23/2003	350	10
MW-070	4/12/2004	420	9.9
MW-070	4/26/2005	336	11.6
MW-070	4/20/2006	328	11.5
MW-070	4/24/2007	<u>1,150</u>	21.9
MW-070	5/27/2009	508	10.2
MW-070	6/23/2010	350	9.96
MW-070	6/30/2011	426	9.5
MW-070	6/28/2012	509	33.3
MW-070	4/29/2015	377	109
MW-070	5/24/2016	402	9.6
MW-070	7/13/2017	333	9.9
MW-070	6/13/2018	498	10.3
MW-070	6/25/2019	<u>1,750</u>	9.87
MW-070	6/9/2020	394	8.61
MW-077	7/21/1995	NA	110
MW-077	1/20/1996	NA	120
MW-077	4/19/1996	NA	120
MW-077	7/1/1996	NA	100
MW-077	10/1/1996	NA	140
MW-077	5/7/1997	NA	150
MW-077	7/18/1997	NA	150
MW-077	10/24/2003	590	57
MW-077	4/7/2004	550	40
MW-077	4/27/2005	<u>1,110</u>	180
MW-077	4/26/2006	521	55
MW-077	6/23/2010	545	48
MW-077	6/30/2011	467	26.9
MW-077	6/25/2014	537	39.9

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

Appendix B

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Wet Chemistry, 1991 through 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1,000	250
MW-081	6/29/1998	800	16
MW-088	2/5/1997	970	30
MW-088	4/30/1997	NA	26
MW-088	10/15/1997	NA	NA
MW-088	6/18/1998	840	22
MW-088	4/21/1999	800	24
MW-088	4/28/2000	876	43.1
MW-088	4/17/2001	770	23
MW-088	4/19/2002	750	35
MW-088	10/21/2003	810	22
MW-088	4/6/2004	820	19
MW-088	4/21/2005	945	27.8
MW-088	4/20/2006	780	29.7
MW-088	4/19/2007	861	32.8
MW-088	5/27/2009	937	48.1
MW-088	6/22/2010	919	35.2
MW-088	6/30/2011	946	41.1
MW-088	6/28/2012	912	29.8
MW-088	6/25/2014	863	26.2
MW-088	4/29/2015	914	30.6
MW-088	5/24/2016	975	27.4
MW-088	7/13/2017	984	29.8
MW-088	6/13/2018	1,030	28.9
MW-088	6/25/2019	920	28.4
MW-088	6/9/2020	962	25.5
MW-106	2/11/1997	430	10
MW-106	5/7/1997	NA	4
MW-106	7/18/1997	NA	5
MW-106	6/18/1998	380	4
MW-106	4/29/1999	NA	12
MW-106	5/1/2000	350	3.45
MW-106	4/18/2001	340	5.6
MW-106	4/17/2002	350	12
MW-106	10/21/2003	350	3.1
MW-106	4/5/2004	540	3.3
MW-106	4/20/2005	405	3.58
MW-106	4/19/2006	371	4.34
MW-106	4/18/2007	396	4.17
MW-106	6/23/2010	349	3.12
MW-106	6/30/2011	368	2.3
MW-106	6/28/2012	374	3.8
MW-106	6/28/2013	387	2.5
MW-106	6/25/2014	374	2.5
MW-106	4/30/2015	388	4.8
MW-106	5/23/2016	388	2.9
MW-106	7/13/2017	364	3.1

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

Appendix B

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Wet Chemistry, 1991 through 2020
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1,000	250
MW-106	6/13/2018	404	3.1
MW-106	6/25/2019	368	3.72
MW-106	6/9/2020	383	3.26
MW-111	6/29/1998	900	100
MW-111	4/21/1999	760	120
MW-111	4/27/2000	994	103
MW-111	4/18/2001	800	100
MW-111	4/19/2002	750	100
MW-111	10/22/2003	800	98
MW-111	4/7/2004	790	70
MW-111	4/21/2005	932	101
MW-111	4/19/2006	872	88.6
MW-111	4/18/2007	874	86.4
MW-111	5/27/2009	886	67.9
MW-111	6/22/2010	750	70.2
MW-111	6/30/2011	798	92.8
MW-111	6/28/2012	695	58.4
MW-111	6/28/2013	787	56.8
MW-111	6/25/2014	703	59.9
MW-111	4/30/2015	695	68.7
MW-111	5/27/2016	677	43.3
MW-111	7/13/2017	687	39.1
MW-111	6/13/2018	708	45.9
MW-111	6/25/2019	688	40
MW-111	6/9/2020	768	62.7
MW-127	5/28/2009	766	77.1
MW-127	6/23/2010	746	44.4
MW-127	7/1/2011	715	42.3
MW-127	6/28/2012	720	42.5
MW-127	6/28/2013	779	42.5
MW-127	6/25/2014	863	26.1
MW-127	4/30/2015	665	49.1
MW-127	5/25/2016	665	45.9
MW-127	7/13/2017	730	48.7
MW-127	6/14/2018	830	58.4
MW-127	6/25/2019	750	53
MW-127	6/10/2020	743	41.9
MW-127 (DUP-1)	6/10/2020	796	41.7

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

APPENDIX C

Laboratory Analytical Reports



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 600-206622-1

Laboratory Sample Delivery Group: 11129300

Client Project/Site: Indian Basin, NM Groundwaters 06-10-20

For:

ARCADIS U.S., Inc.
1004 North Big Spring
Suite 121
Midland, Texas 79701

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Authorized for release by:
6/26/2020 6:10:27 PM

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

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

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Laboratory Job ID: 600-206622-1
SDG: 11129300

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Job ID: 600-206622-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative 600-206622-1

Comments

No additional comments.

Receipt

The samples were received on 6/12/2020 10:35 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0° C.

Receipt Exceptions

One voa vial was received empty.

GC/MS VOA

Method 8260B: The method blank for analytical batch 600-296824 contained m-Xylene & p-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The method blank for analytical batch 600-296918 contained Toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

General Chemistry

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

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	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

Eurofins TestAmerica, Houston

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-206622-1	MW-14	Water	06/10/20 12:48	06/12/20 10:35	
600-206622-2	MW-46	Water	06/10/20 11:49	06/12/20 10:35	
600-206622-3	MW-49	Water	06/10/20 10:50	06/12/20 10:35	
600-206622-4	MW-45	Water	06/10/20 09:50	06/12/20 10:35	
600-206622-5	MW-127	Water	06/10/20 08:41	06/12/20 10:35	
600-206622-6	MW-106	Water	06/09/20 16:50	06/12/20 10:35	
600-206622-7	MW-70	Water	06/09/20 15:12	06/12/20 10:35	
600-206622-8	MW-88	Water	06/09/20 13:47	06/12/20 10:35	
600-206622-9	MW-66	Water	06/09/20 12:47	06/12/20 10:35	
600-206622-10	DUP-1	Water	06/10/20 00:00	06/12/20 10:35	
600-206622-11	Trip Blank	Water	06/09/20 00:00	06/12/20 10:35	
600-206622-12	MW-111	Water	06/09/20 11:26	06/12/20 10:35	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: MW-14

Lab Sample ID: 600-206622-1

Date Collected: 06/10/20 12:48

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L	-		06/17/20 20:25	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L	-		06/17/20 20:25	1
Toluene	1.58	J B	5.00	0.550	ug/L	-		06/17/20 20:25	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L	-		06/17/20 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		50 - 134		06/17/20 20:25	1
Dibromofluoromethane	105		62 - 130		06/17/20 20:25	1
Toluene-d8 (Surr)	114		70 - 130		06/17/20 20:25	1
4-Bromofluorobenzene	119		67 - 139		06/17/20 20:25	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		40.0	5.34	mg/L	-		06/25/20 15:34	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1360		20.0	20.0	mg/L	-		06/16/20 10:48	1

Client Sample ID: MW-46

Lab Sample ID: 600-206622-2

Date Collected: 06/10/20 11:49

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L	-		06/17/20 20:49	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L	-		06/17/20 20:49	1
Toluene	1.18	J B	5.00	0.550	ug/L	-		06/17/20 20:49	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L	-		06/17/20 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		50 - 134		06/17/20 20:49	1
Dibromofluoromethane	102		62 - 130		06/17/20 20:49	1
Toluene-d8 (Surr)	113		70 - 130		06/17/20 20:49	1
4-Bromofluorobenzene	119		67 - 139		06/17/20 20:49	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		40.0	5.34	mg/L	-		06/25/20 15:54	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1630		20.0	20.0	mg/L	-		06/16/20 10:48	1

Client Sample ID: MW-49

Lab Sample ID: 600-206622-3

Date Collected: 06/10/20 10:50

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15.4		5.00	0.560	ug/L	-		06/17/20 21:13	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L	-		06/17/20 21:13	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: MW-49

Lab Sample ID: 600-206622-3

Date Collected: 06/10/20 10:50

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.02	J B	5.00	0.550	ug/L			06/17/20 21:13	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/17/20 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		50 - 134					06/17/20 21:13	1
Dibromofluoromethane	105		62 - 130					06/17/20 21:13	1
Toluene-d8 (Surr)	113		70 - 130					06/17/20 21:13	1
4-Bromofluorobenzene	123		67 - 139					06/17/20 21:13	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	491		80.0	10.7	mg/L			06/25/20 16:15	200

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4000		40.0	40.0	mg/L			06/16/20 10:48	1

Client Sample ID: MW-45

Lab Sample ID: 600-206622-4

Date Collected: 06/10/20 09:50

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L			06/17/20 21:36	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L			06/17/20 21:36	1
Toluene	0.934	J B	5.00	0.550	ug/L			06/17/20 21:36	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/17/20 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		50 - 134					06/17/20 21:36	1
Dibromofluoromethane	108		62 - 130					06/17/20 21:36	1
Toluene-d8 (Surr)	114		70 - 130					06/17/20 21:36	1
4-Bromofluorobenzene	117		67 - 139					06/17/20 21:36	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		80.0	10.7	mg/L			06/25/20 16:35	200

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5230		40.0	40.0	mg/L			06/16/20 10:48	1

Client Sample ID: MW-127

Lab Sample ID: 600-206622-5

Date Collected: 06/10/20 08:41

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L			06/17/20 22:00	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L			06/17/20 22:00	1
Toluene	0.927	J B	5.00	0.550	ug/L			06/17/20 22:00	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/17/20 22:00	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: MW-127

Date Collected: 06/10/20 08:41

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		50 - 134		06/17/20 22:00	1
Dibromofluoromethane	107		62 - 130		06/17/20 22:00	1
Toluene-d8 (Surr)	113		70 - 130		06/17/20 22:00	1
4-Bromofluorobenzene	125		67 - 139		06/17/20 22:00	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.9		8.00	1.07	mg/L	-		06/25/20 16:56	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	743		10.0	10.0	mg/L	-		06/16/20 10:48	1

Client Sample ID: MW-106

Date Collected: 06/09/20 16:50

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-6

Matrix: Water

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L	-		06/17/20 22:24	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L	-		06/17/20 22:24	1
Toluene	0.813	J B	5.00	0.550	ug/L	-		06/17/20 22:24	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L	-		06/17/20 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		50 - 134		06/17/20 22:24	1
Dibromofluoromethane	99		62 - 130		06/17/20 22:24	1
Toluene-d8 (Surr)	108		70 - 130		06/17/20 22:24	1
4-Bromofluorobenzene	117		67 - 139		06/17/20 22:24	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.26	J	4.00	0.534	mg/L	-		06/25/20 17:16	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	383		10.0	10.0	mg/L	-		06/16/20 10:48	1

Client Sample ID: MW-70

Date Collected: 06/09/20 15:12

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-7

Matrix: Water

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L	-		06/17/20 22:47	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L	-		06/17/20 22:47	1
Toluene	0.837	J B	5.00	0.550	ug/L	-		06/17/20 22:47	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L	-		06/17/20 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		50 - 134		06/17/20 22:47	1
Dibromofluoromethane	105		62 - 130		06/17/20 22:47	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: MW-70

Date Collected: 06/09/20 15:12

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-7

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	112		70 - 130		06/17/20 22:47	1
4-Bromofluorobenzene	123		67 - 139		06/17/20 22:47	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.61		4.00	0.534	mg/L			06/25/20 17:36	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	394		10.0	10.0	mg/L			06/16/20 10:48	1

Client Sample ID: MW-88

Date Collected: 06/09/20 13:47

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-8

Matrix: Water

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L			06/17/20 23:11	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L			06/17/20 23:11	1
Toluene	0.704	J B	5.00	0.550	ug/L			06/17/20 23:11	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/17/20 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		50 - 134		06/17/20 23:11	1
Dibromofluoromethane	99		62 - 130		06/17/20 23:11	1
Toluene-d8 (Surr)	107		70 - 130		06/17/20 23:11	1
4-Bromofluorobenzene	111		67 - 139		06/17/20 23:11	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.5		10.0	1.34	mg/L			06/25/20 17:57	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	962		20.0	20.0	mg/L			06/16/20 10:48	1

Client Sample ID: MW-66

Date Collected: 06/09/20 12:47

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-9

Matrix: Water

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L			06/18/20 17:09	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L			06/18/20 17:09	1
Toluene	0.550	U	5.00	0.550	ug/L			06/18/20 17:09	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/18/20 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		50 - 134		06/18/20 17:09	1
Dibromofluoromethane	120		62 - 130		06/18/20 17:09	1
Toluene-d8 (Surr)	108		70 - 130		06/18/20 17:09	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: MW-66

Lab Sample ID: 600-206622-9

Date Collected: 06/09/20 12:47

Matrix: Water

Date Received: 06/12/20 10:35

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	114		67 - 139		06/18/20 17:09	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		10.0	1.34	mg/L			06/25/20 19:39	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920		10.0	10.0	mg/L			06/16/20 10:48	1

Client Sample ID: DUP-1

Lab Sample ID: 600-206622-10

Date Collected: 06/10/20 00:00

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L			06/18/20 15:58	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L			06/18/20 15:58	1
Toluene	0.569	J B	5.00	0.550	ug/L			06/18/20 15:58	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/18/20 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		50 - 134		06/18/20 15:58	1
Dibromofluoromethane	113		62 - 130		06/18/20 15:58	1
Toluene-d8 (Surr)	102		70 - 130		06/18/20 15:58	1
4-Bromofluorobenzene	111		67 - 139		06/18/20 15:58	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.7		10.0	1.34	mg/L			06/25/20 19:59	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	796		10.0	10.0	mg/L			06/16/20 10:48	1

Client Sample ID: Trip Blank

Lab Sample ID: 600-206622-11

Date Collected: 06/09/20 00:00

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L			06/18/20 17:33	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L			06/18/20 17:33	1
Toluene	0.610	J B	5.00	0.550	ug/L			06/18/20 17:33	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/18/20 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		50 - 134		06/18/20 17:33	1
Dibromofluoromethane	120		62 - 130		06/18/20 17:33	1
Toluene-d8 (Surr)	107		70 - 130		06/18/20 17:33	1
4-Bromofluorobenzene	113		67 - 139		06/18/20 17:33	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: MW-111

Lab Sample ID: 600-206622-12

Date Collected: 06/09/20 11:26

Matrix: Water

Date Received: 06/12/20 10:35

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L	-		06/18/20 17:57	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L	-		06/18/20 17:57	1
Toluene	0.550	U	5.00	0.550	ug/L	-		06/18/20 17:57	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L	-		06/18/20 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		50 - 134		06/18/20 17:57	1
Dibromofluoromethane	111		62 - 130		06/18/20 17:57	1
Toluene-d8 (Surr)	110		70 - 130		06/18/20 17:57	1
4-Bromofluorobenzene	108		67 - 139		06/18/20 17:57	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.7		10.0	1.34	mg/L	-		06/25/20 20:20	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	768		20.0	20.0	mg/L	-		06/16/20 10:48	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Qualifiers

GC/MS VOA

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

HPLC/IC

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.

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.
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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

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)
600-206622-1	MW-14	85	105	114	119
600-206622-2	MW-46	83	102	113	119
600-206622-3	MW-49	86	105	113	123
600-206622-4	MW-45	85	108	114	117
600-206622-5	MW-127	84	107	113	125
600-206622-6	MW-106	83	99	108	117
600-206622-7	MW-70	85	105	112	123
600-206622-8	MW-88	82	99	107	111
600-206622-9	MW-66	97	120	108	114
600-206622-10	DUP-1	95	113	102	111
600-206622-11	Trip Blank	97	120	107	113
600-206622-12	MW-111	100	111	110	108
LCS 600-296824/4	Lab Control Sample	86	91	80	81
LCS 600-296918/4	Lab Control Sample	95	106	103	104
LCSD 600-296824/5	Lab Control Sample Dup	88	88	81	86
LCSD 600-296918/5	Lab Control Sample Dup	94	104	93	99
MB 600-296824/6	Method Blank	84	94	98	115
MB 600-296918/6	Method Blank	83	94	95	108

Surrogate Legend

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

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

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

Lab Sample ID: MB 600-296824/6

Matrix: Water

Analysis Batch: 296824

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L			06/17/20 15:15	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L			06/17/20 15:15	1
Toluene	1.510	J	5.00	0.550	ug/L			06/17/20 15:15	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/17/20 15:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		50 - 134		06/17/20 15:15	1
Dibromofluoromethane	94		62 - 130		06/17/20 15:15	1
Toluene-d8 (Surr)	98		70 - 130		06/17/20 15:15	1
4-Bromofluorobenzene	115		67 - 139		06/17/20 15:15	1

Lab Sample ID: LCS 600-296824/4

Matrix: Water

Analysis Batch: 296824

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	42.88		ug/L		86	70 - 131
Ethylbenzene	50.0	36.11		ug/L		72	70 - 130
Toluene	50.0	42.63		ug/L		85	70 - 130
Xylenes, Total	100	74.92		ug/L		75	70 - 130
m-Xylene & p-Xylene	50.0	38.61		ug/L		77	70 - 130
o-Xylene	50.0	36.31		ug/L		73	69 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		50 - 134
Dibromofluoromethane	91		62 - 130
Toluene-d8 (Surr)	80		70 - 130
4-Bromofluorobenzene	81		67 - 139

Lab Sample ID: LCSD 600-296824/5

Matrix: Water

Analysis Batch: 296824

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	50.0	42.30		ug/L		85	70 - 131	1	20
Ethylbenzene	50.0	34.84		ug/L		70	70 - 130	4	20
Toluene	50.0	43.31		ug/L		87	70 - 130	2	20
Xylenes, Total	100	74.00		ug/L		74	70 - 130	1	20
m-Xylene & p-Xylene	50.0	37.65		ug/L		75	70 - 130	3	20
o-Xylene	50.0	36.35		ug/L		73	69 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		50 - 134
Dibromofluoromethane	88		62 - 130
Toluene-d8 (Surr)	81		70 - 130
4-Bromofluorobenzene	86		67 - 139

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

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

Lab Sample ID: MB 600-296918/6

Matrix: Water

Analysis Batch: 296918

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.560	U	5.00	0.560	ug/L			06/18/20 12:03	1
Ethylbenzene	1.29	U	5.00	1.29	ug/L			06/18/20 12:03	1
Toluene	0.6262	J	5.00	0.550	ug/L			06/18/20 12:03	1
Xylenes, Total	1.98	U	5.00	1.98	ug/L			06/18/20 12:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		50 - 134		06/18/20 12:03	1
Dibromofluoromethane	94		62 - 130		06/18/20 12:03	1
Toluene-d8 (Surr)	95		70 - 130		06/18/20 12:03	1
4-Bromofluorobenzene	108		67 - 139		06/18/20 12:03	1

Lab Sample ID: LCS 600-296918/4

Matrix: Water

Analysis Batch: 296918

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.32		ug/L		95	70 - 131
Ethylbenzene	50.0	52.33		ug/L		105	70 - 130
Toluene	50.0	54.29		ug/L		109	70 - 130
Xylenes, Total	100	105.2		ug/L		105	70 - 130
m-Xylene & p-Xylene	50.0	51.62		ug/L		103	70 - 130
o-Xylene	50.0	53.55		ug/L		107	69 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		50 - 134
Dibromofluoromethane	106		62 - 130
Toluene-d8 (Surr)	103		70 - 130
4-Bromofluorobenzene	104		67 - 139

Lab Sample ID: LCSD 600-296918/5

Matrix: Water

Analysis Batch: 296918

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	50.0	44.02		ug/L		88	70 - 131	7	20
Ethylbenzene	50.0	47.08		ug/L		94	70 - 130	11	20
Toluene	50.0	49.90		ug/L		100	70 - 130	8	20
Xylenes, Total	100	97.40		ug/L		97	70 - 130	8	20
m-Xylene & p-Xylene	50.0	47.73		ug/L		95	70 - 130	8	20
o-Xylene	50.0	49.67		ug/L		99	69 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		50 - 134
Dibromofluoromethane	104		62 - 130
Toluene-d8 (Surr)	93		70 - 130
4-Bromofluorobenzene	99		67 - 139

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-297476/4

Matrix: Water

Analysis Batch: 297476

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.0534	U	0.400	0.0534	mg/L			06/25/20 11:23	1

Lab Sample ID: LCS 600-297476/5

Matrix: Water

Analysis Batch: 297476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	18.42		mg/L		92	90 - 110

Lab Sample ID: 600-206622-8 MS

Matrix: Water

Analysis Batch: 297476

Client Sample ID: MW-88

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.5		250	243.9		mg/L		87	80 - 120

Lab Sample ID: 600-206622-8 MSD

Matrix: Water

Analysis Batch: 297476

Client Sample ID: MW-88

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.5		250	230.1		mg/L		82	80 - 120	6	20

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 600-296702/1

Matrix: Water

Analysis Batch: 296702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			06/16/20 10:48	1

Lab Sample ID: LCS 600-296702/2

Matrix: Water

Analysis Batch: 296702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1800	1807		mg/L		100	90 - 110

Lab Sample ID: 600-206622-7 DU

Matrix: Water

Analysis Batch: 296702

Client Sample ID: MW-70

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	394		399.0		mg/L		1	10

Eurofins TestAmerica, Houston

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.

Job ID: 600-206622-1

Project/Site: Indian Basin, NM Groundwaters 06-10-20

SDG: 11129300

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

Analyte	MQL	MDL	Units
Benzene	5.00	0.560	ug/L
Ethylbenzene	5.00	1.29	ug/L
Toluene	5.00	0.550	ug/L
Xylenes, Total	5.00	1.98	ug/L

Method: 300.0 - Anions, Ion Chromatography

Analyte	MQL	MDL	Units
Chloride	0.400	0.0534	mg/L

General Chemistry

Analyte	MQL	MDL	Units
Total Dissolved Solids	10.0	10.0	mg/L

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

GC/MS VOA

Analysis Batch: 296824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-206622-1	MW-14	Total/NA	Water	8260B	
600-206622-2	MW-46	Total/NA	Water	8260B	
600-206622-3	MW-49	Total/NA	Water	8260B	
600-206622-4	MW-45	Total/NA	Water	8260B	
600-206622-5	MW-127	Total/NA	Water	8260B	
600-206622-6	MW-106	Total/NA	Water	8260B	
600-206622-7	MW-70	Total/NA	Water	8260B	
600-206622-8	MW-88	Total/NA	Water	8260B	
MB 600-296824/6	Method Blank	Total/NA	Water	8260B	
LCS 600-296824/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-296824/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 296918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-206622-9	MW-66	Total/NA	Water	8260B	
600-206622-10	DUP-1	Total/NA	Water	8260B	
600-206622-11	Trip Blank	Total/NA	Water	8260B	
600-206622-12	MW-111	Total/NA	Water	8260B	
MB 600-296918/6	Method Blank	Total/NA	Water	8260B	
LCS 600-296918/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-296918/5	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 297476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-206622-1	MW-14	Total/NA	Water	300.0	
600-206622-2	MW-46	Total/NA	Water	300.0	
600-206622-3	MW-49	Total/NA	Water	300.0	
600-206622-4	MW-45	Total/NA	Water	300.0	
600-206622-5	MW-127	Total/NA	Water	300.0	
600-206622-6	MW-106	Total/NA	Water	300.0	
600-206622-7	MW-70	Total/NA	Water	300.0	
600-206622-8	MW-88	Total/NA	Water	300.0	
600-206622-9	MW-66	Total/NA	Water	300.0	
600-206622-10	DUP-1	Total/NA	Water	300.0	
600-206622-12	MW-111	Total/NA	Water	300.0	
MB 600-297476/4	Method Blank	Total/NA	Water	300.0	
LCS 600-297476/5	Lab Control Sample	Total/NA	Water	300.0	
600-206622-8 MS	MW-88	Total/NA	Water	300.0	
600-206622-8 MSD	MW-88	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 296702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-206622-1	MW-14	Total/NA	Water	2540 C-1997	
600-206622-2	MW-46	Total/NA	Water	2540 C-1997	
600-206622-3	MW-49	Total/NA	Water	2540 C-1997	
600-206622-4	MW-45	Total/NA	Water	2540 C-1997	
600-206622-5	MW-127	Total/NA	Water	2540 C-1997	
600-206622-6	MW-106	Total/NA	Water	2540 C-1997	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

General Chemistry (Continued)

Analysis Batch: 296702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-206622-7	MW-70	Total/NA	Water	2540 C-1997	
600-206622-8	MW-88	Total/NA	Water	2540 C-1997	
600-206622-9	MW-66	Total/NA	Water	2540 C-1997	
600-206622-10	DUP-1	Total/NA	Water	2540 C-1997	
600-206622-12	MW-111	Total/NA	Water	2540 C-1997	
MB 600-296702/1	Method Blank	Total/NA	Water	2540 C-1997	
LCS 600-296702/2	Lab Control Sample	Total/NA	Water	2540 C-1997	
600-206622-7 DU	MW-70	Total/NA	Water	2540 C-1997	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: MW-14

Date Collected: 06/10/20 12:48

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296824	06/17/20 20:25	KLV	TAL HOU
Total/NA	Analysis	300.0		100	297476	06/25/20 15:34	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Client Sample ID: MW-46

Date Collected: 06/10/20 11:49

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296824	06/17/20 20:49	KLV	TAL HOU
Total/NA	Analysis	300.0		100	297476	06/25/20 15:54	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Client Sample ID: MW-49

Date Collected: 06/10/20 10:50

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296824	06/17/20 21:13	KLV	TAL HOU
Total/NA	Analysis	300.0		200	297476	06/25/20 16:15	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Client Sample ID: MW-45

Date Collected: 06/10/20 09:50

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296824	06/17/20 21:36	KLV	TAL HOU
Total/NA	Analysis	300.0		200	297476	06/25/20 16:35	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Client Sample ID: MW-127

Date Collected: 06/10/20 08:41

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296824	06/17/20 22:00	KLV	TAL HOU
Total/NA	Analysis	300.0		20	297476	06/25/20 16:56	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: MW-106

Date Collected: 06/09/20 16:50

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296824	06/17/20 22:24	KLV	TAL HOU
Total/NA	Analysis	300.0		10	297476	06/25/20 17:16	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Client Sample ID: MW-70

Date Collected: 06/09/20 15:12

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296824	06/17/20 22:47	KLV	TAL HOU
Total/NA	Analysis	300.0		10	297476	06/25/20 17:36	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Client Sample ID: MW-88

Date Collected: 06/09/20 13:47

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296824	06/17/20 23:11	KLV	TAL HOU
Total/NA	Analysis	300.0		25	297476	06/25/20 17:57	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Client Sample ID: MW-66

Date Collected: 06/09/20 12:47

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296918	06/18/20 17:09	DT1	TAL HOU
Total/NA	Analysis	300.0		25	297476	06/25/20 19:39	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Client Sample ID: DUP-1

Date Collected: 06/10/20 00:00

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296918	06/18/20 15:58	DT1	TAL HOU
Total/NA	Analysis	300.0		25	297476	06/25/20 19:59	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Client Sample ID: Trip Blank

Date Collected: 06/09/20 00:00

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296918	06/18/20 17:33	DT1	TAL HOU

Client Sample ID: MW-111

Date Collected: 06/09/20 11:26

Date Received: 06/12/20 10:35

Lab Sample ID: 600-206622-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	296918	06/18/20 17:57	DT1	TAL HOU
Total/NA	Analysis	300.0		25	297476	06/25/20 20:20	KP1	TAL HOU
Total/NA	Analysis	2540 C-1997		1	296702	06/16/20 10:48	TNL	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.
Project/Site: Indian Basin, NM Groundwaters 06-10-20

Job ID: 600-206622-1
SDG: 11129300

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0759	08-04-20
Louisiana	NELAP	01967	06-30-20
Oklahoma	State	2019-073	08-31-20
Texas	NELAP	T104704223-19-25	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

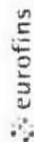
Eurofins TestAmerica, Houston

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

Midland

#264



Lab Station: T-011A
Page: 1

Client Information Client Contact: Michelle Kukta Company: GHD Services Inc. Address: 2055 Niagara Falls Blvd., Suite 3 City: Niagara Falls State, Zip: NY, 14304 Phone: Email: Michelle.Kukta@ghd.com Project Name: Indian Basin, NM Groundwaters Site:		Sampler Name: <i>Ken Storguel</i> Phone: 432-288-0875 Lab PM: Joiner, Dean A E-Mail: dean.joiner@testamerica.com		COC No: 600-77372-18897.2 Page: Job #	
Due Date Requested: TAT Requested (days): 10 WD TAT Level 3e PO #: WO #: Project #: SOW #:		Analysis Requested			
Sample Identification		Field Filtered Sample (Yes or No)		Preservation Codes: 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:	
Sample Date 06/14/20 06/15/20 06/16/20 06/17/20 06/18/20 06/19/20 06/20/20 06/21/20 06/22/20 06/23/20 06/24/20 06/25/20 06/26/20 06/27/20 06/28/20 06/29/20 06/30/20 07/01/20 07/02/20 07/03/20 07/04/20 07/05/20 07/06/20 07/07/20 07/08/20 07/09/20 07/10/20 07/11/20 07/12/20 07/13/20 07/14/20 07/15/20 07/16/20 07/17/20 07/18/20 07/19/20 07/20/20 07/21/20 07/22/20 07/23/20 07/24/20 07/25/20 07/26/20 07/27/20 07/28/20 07/29/20 07/30/20 07/31/20 08/01/20 08/02/20 08/03/20 08/04/20 08/05/20 08/06/20 08/07/20 08/08/20 08/09/20 08/10/20 08/11/20 08/12/20 08/13/20 08/14/20 08/15/20 08/16/20 08/17/20 08/18/20 08/19/20 08/20/20 08/21/20 08/22/20 08/23/20 08/24/20 08/25/20 08/26/20 08/27/20 08/28/20 08/29/20 08/30/20 08/31/20 09/01/20 09/02/20 09/03/20 09/04/20 09/05/20 09/06/20 09/07/20 09/08/20 09/09/20 09/10/20 09/11/20 09/12/20 09/13/20 09/14/20 09/15/20 09/16/20 09/17/20 09/18/20 09/19/20 09/20/20 09/21/20 09/22/20 09/23/20 09/24/20 09/25/20 09/26/20 09/27/20 09/28/20 09/29/20 09/30/20 10/01/20 10/02/20 10/03/20 10/04/20 10/05/20 10/06/20 10/07/20 10/08/20 10/09/20 10/10/20 10/11/20 10/12/20 10/13/20 10/14/20 10/15/20 10/16/20 10/17/20 10/18/20 10/19/20 10/20/20 10/21/20 10/22/20 10/23/20 10/24/20 10/25/20 10/26/20 10/27/20 10/28/20 10/29/20 10/30/20 10/31/20 11/01/20 11/02/20 11/03/20 11/04/20 11/05/20 11/06/20 11/07/20 11/08/20 11/09/20 11/10/20 11/11/20 11/12/20 11/13/20 11/14/20 11/15/20 11/16/20 11/17/20 11/18/20 11/19/20 11/20/20 11/21/20 11/22/20 11/23/20 11/24/20 11/25/20 11/26/20 11/27/20 11/28/20 11/29/20 11/30/20 12/01/20 12/02/20 12/03/20 12/04/20 12/05/20 12/06/20 12/07/20 12/08/20 12/09/20 12/10/20 12/11/20 12/12/20 12/13/20 12/14/20 12/15/20 12/16/20 12/17/20 12/18/20 12/19/20 12/20/20 12/21/20 12/22/20 12/23/20 12/24/20 12/25/20 12/26/20 12/27/20 12/28/20 12/29/20 12/30/20 12/31/20		Sample Time 1243 1149 1050 0950 0841 1650 1512 1347 1247 1147 1047 0947 0847 0747 0647 0547 0447 0347 0247 0147 0047 2347 2247 2147 2047 1947 1847 1747 1647 1547 1447 1347 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[illegible]

Loc: 600

206622

Environment Testing
TestAmerica

Eurofins TestAmerica Houston

20 JUN 12 10:35

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)
8110	Y / N	Y / N	4.1	678	-0.1	4.0
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				6/12/20
	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:

6/12/20

HS-SA-WI-013

Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-206622-1

SDG Number: 11129300

Login Number: 206622

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins TestAmerica, Houston

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	4.0
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.

APPENDIX D

Laboratory Data Validation Report



Memorandum

July 29, 2020

To: Hugh Robotham (hugh.robatham@arcadis.com) Ref. No.: 11129300

From:  Michelle Kukta/eew/1 Tel: 716-205-1990

CC: Suda Arakere (suda_arakere@oxy.com)

**Subject: Analytical Results and Reduced Validation
Annual Groundwater Monitoring
Glenn Springs Holdings, Inc. – Indian Basin
Indian Basin, New Mexico
June 2020**

1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Annual Groundwater Monitoring at the Indian Basin site during June 2020. Samples were submitted to Eurofins TestAmerica located in Houston, Texas. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, field QA/QC samples, and recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS).

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "National Functional Guidelines for Superfund Organic Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-2016-002, September 2016
- ii) "National Functional Guidelines for Inorganic Superfund Methods Data Review", USEPA, 540-R-2016-001, September 2016

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.



2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect with the exception of low level concentrations of toluene, indicating a potential for laboratory contamination. All associated samples containing similar concentrations of toluene were assumed to be a reflection of laboratory contamination and were qualified non-detect (see Table 4).

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compounds (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the criteria.

5. Laboratory Control Sample Analyses

LCS and/or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.



Organic Analyses

The LCS/LCSD contained all compounds of interest. All LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

The laboratory performed site-specific MS/MSD analyses internally for chloride analysis.

The MS/MSD samples were spiked with the analyte of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, a duplicate sample was prepared and analyzed internally by the laboratory for total dissolved solids analysis. The duplicate results were evaluated per the "Guidelines". The duplicate analysis performed was within criteria, demonstrating acceptable analytical precision.

8. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample and one field duplicate sample set.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of a low level concentration of toluene, which was assumed to be a reflection of laboratory contamination.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate



samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one time the RL value for water samples.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

9. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

10. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Annual Groundwater Monitoring
Glenn Springs Holdings, Inc. – Indian Basin
Indian Basin, New Mexico
June 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis			Comments
					VOC	Chloride	TDS	
MW-14	MW-14	Groundwater	06/10/2020	12:48	X	X	X	
MW-45	MW-45	Groundwater	06/10/2020	09:50	X	X	X	
MW-46	MW-46	Groundwater	06/10/2020	11:49	X	X	X	
MW-49	MW-49	Groundwater	06/10/2020	10:50	X	X	X	
MW-66	MW-66	Groundwater	06/09/2020	12:47	X	X	X	
MW-70	MW-70	Groundwater	06/09/2020	15:12	X	X	X	
MW-88	MW-88	Groundwater	06/09/2020	13:47	X	X	X	
MW-106	MW-106	Groundwater	06/09/2020	16:50	X	X	X	
MW-111	MW-111	Groundwater	06/09/2020	11:26	X	X	X	
MW-127	MW-127	Groundwater	06/10/2020	08:41	X	X	X	
DUP-1	MW-127	Groundwater	06/10/2020	00:00	X	X	X	FD(MW-127)
Trip Blank	-	Water	06/09/2020	-	X			Trip Blank

Notes:

FD - Field Duplicate sample of sample in parenthesis
VOC - Volatile Organic Compounds
TDS - Total Dissolved Solids
"- " - Not applicable

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
Glenn Springs Holdings, Inc. – Indian Basin
Indian Basin, New Mexico
June 2020**

Location ID:	MW-14	MW-45	MW-46	MW-49	MW-66	MW-70	MW-88	MW-106	MW-111	MW-127	MW-127
Sample Name:	MW-14	MW-45	MW-46	MW-49	MW-66	MW-70	MW-88	MW-106	MW-111	MW-127	DUP-1
Sample Date:	06/10/2020	06/10/2020	06/10/2020	06/10/2020	06/09/2020	06/09/2020	06/09/2020	06/09/2020	06/09/2020	06/10/2020	06/10/2020
											Duplicate

Parameters	Unit											
Volatile Organic Compounds												
Benzene	µg/L	5.00 U	5.00 U	5.00 U	15.4	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Ethylbenzene	µg/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Toluene	µg/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Xylenes (total)	µg/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
General Chemistry												
Chloride	mg/L	132	150	125	491	11.4	8.61	25.5	3.26 J	62.7	41.9	41.7
Total dissolved solids (TDS)	mg/L	1360	5230	1630	4000	920	394	962	383	768	743	796

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

Table 3

Analytical Methods
Annual Groundwater Monitoring
Glenn Springs Holdings, Inc. – Indian Basin
Indian Basin, New Mexico
June 2020

Parameter	Method	Matrix	Holding Time
			Collection to Analysis (Days)
Volatile Organic Compounds (VOC)	SW-846 8260B	Groundwater	14
Chloride	EPA 300.0	Groundwater	28
Total Dissolved Solids (TDS)	SM 2540C	Groundwater	7

Notes:

Method References:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- SM - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions
- EPA - Environmental Protection Agency

Table 4

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks

Annual Groundwater Monitoring

Glenn Springs Holdings, Inc. – Indian Basin

Indian Basin, New Mexico

June 2020

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
VOC	Toluene	06/17/2020	1.510 J	MW-14	1.58 J	5.00 U	µg/L
				MW-45	0.934 J	5.00 U	µg/L
				MW-46	1.18 J	5.00 U	µg/L
				MW-49	1.02 J	5.00 U	µg/L
				MW-70	0.837 J	5.00 U	µg/L
				MW-88	0.704 J	5.00 U	µg/L
				MW-106	0.813 J	5.00 U	µg/L
				MW-127	0.927 J	5.00 U	µg/L
VOC	Toluene	06/18/2020	0.6262 J	DUP-1	0.569 J	5.00 U	µg/L

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

VOC - Volatile Organic Compounds

APPENDIX E

NMOCD Correspondence



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



February 20, 2009

M. Paul Peacock
Marathon Oil Company
P.O. Box 3128
Houston, TX 77253-3128

**RE: Indian Basin Remediation Project Report and Proposed Well Plugging Request
for the Marathon's Indian Basin Gas Plant (GW-21)
Eddy County, New Mexico**

Dear Mr. Peacock:

The New Mexico Oil Conservation Division (OCD) has reviewed Marathon's report, Evaluation of Natural Attenuation, Indian Basin Remediation Project [IBRP], Eddy County, New Mexico, dated May 12, 2008, and Proposed IBRP Well Plugging Program [Request], dated February 5, 2009. The report and request are substantially acceptable to the OCD. Therefore, the OCD hereby conditionally approves the discontinuance of active remediation at the above-referenced site.

However, at least annual groundwater monitoring for BTEX, TDS and chloride at the 13 proposed wells as specified in the Well Plugging Request plus at an additional two groundwater monitoring wells, MW-81 and MW-113, for a total of 15 wells must continue unless otherwise approved by the OCD. Also, at least semi-annually gauging of depth to groundwater and non-aqueous phase liquid thickness at these 15 wells must continue unless otherwise approved by the OCD. Marathon must continue to submit an annual groundwater monitoring report to the OCD unless otherwise approved by the OCD.

In addition, the material used to plug the 98 (the 100 proposed minus the 2 rejected) groundwater monitoring wells as specified in the Request must be a cement grout with 1% to 3% bentonite. Please submit to the OCD a final plugging report within 180 days of receipt of this letter.



M. Paul Peacock
GW-21
February 20, 2009
Page 2

Please be advised that OCD approval of this report and request does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Edward Hansen of my staff at 505-476-3489 or edwardj.hansen@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to be 'W. Price', with a long horizontal stroke extending to the right.

Wayne Price
Environmental Bureau Chief

WP:EJH:ejh

cc: OCD; Artesia District Office
Terry Persaud, P.E., Marathon Oil Company, P.O. Box 3128, Houston, TX 77253-3128

From: Hansen, Edward J., EMNRD [mailto:edwardj.hansen@state.nm.us]
Sent: Wednesday, June 17, 2009 12:42 PM
To: Persaud, Terry
Cc: Caudill, Ted L.; Kurki, Vijay K.; Newman, Dennis (Houston); alan.reed@arcadis-us.com; Lowe, Leonard, EMNRD
Subject: GW-21 Plugging Report Approval

**RE: "Indian Basin Remediation Project Monitoring Well Plugging Report"
for the Marathon's (now OXY's)
Indian Basin Gas Plant (GW-21)
Unit Letter G, Section 23, T21S, R23E, NMPM, Eddy County, New Mexico
Plugging Report Approval**

Dear Mr. Persaud:

The New Mexico Oil Conservation Division (OCD) has received the groundwater monitoring well plugging report for the Indian Basin Gas Plant (GW-21), dated June 11, 2009, and has conducted a review of the report. The plugging report, submitted for the above-referenced site, indicates that Marathon has met the plugging requirements. Therefore, the OCD hereby approves the plugging report. However, the OCD is anticipating the 2009 annual groundwater monitoring report for the remaining 15 monitoring wells this month.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

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

CONDITIONS

Action 592024

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 592024
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
owen.sitler	2020 Annual Groundwater Monitoring Report submission	6/4/2026