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REVIEWED
By Mike Buchanan at 11:14 am, Sep 01, 2023

Your ref: New Mexico Oil Conservation Division AP-106
Our ref: 12603931-Velez-1

June 9, 2023

Review of the 2022 Annual Groundwater Monitoring Report submitted for Boyd Compression Station: **Content is Satisfactory.**
1) Continue groundwater monitoring until all chemicals of concern, particularly TDS and Chloride in MW-1 and MW-4 have demonstrated a level below NMWQCC standards for eight (8) consecutive quarters.
2) A site Abatement Closure report pursuant to 19.15.30.19 subsection A and B may be submitted if and when all requirements set forth in 19.15.30.9 of the NMAC have been met.
3) Please submit the 2023 Annual Groundwater Report by April 1, 2024.

Mr. Nelson Velez
State of New Mexico
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

2022 Annual Groundwater Monitoring Report
Boyd Compressor Station
East Lea County, New Mexico
New Mexico Oil Conservation Division Abatement Plan No. 106

Mr. Velez,

On behalf of ETC Texas Pipeline Ltd. (ETC), GHD Services Inc. (GHD) is submitting the 2022 Annual Groundwater Monitoring Report (Report) for the above-referenced property (Site) to the New Mexico Oil Conservation Division (NMOCD). The Report summarizes activities performed at the Site during 2022 in accordance with the NMOCD's recommendations in response to the 2021 Annual Groundwater Monitoring Report.

Should you have any questions or comments regarding this submittal, please contact the undersigned.

Regards

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Project Manager

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Project Director

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JT.Murrey@GHD.com

BO/kdn/1

Encl. 2022 Annual Groundwater Monitoring Report

cc: Stacy Boultinghouse, ETC
Mr. Billy Sims, property owner

2022 Annual Groundwater Monitoring Report

Boyd Compressor Station
Section 26, Township 22 South, Range 37 East Lea County, New Mexico
NMOCD AP-106

Incident Number nAPP2214005252

ETC Texas Pipeline, Ltd

June 9, 2023

→ The Power of Commitment

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1. Introduction

This report presents the results of groundwater monitoring during 2022 at the ETC Texas Pipeline Ltd. (ETC), Boyd Compressor Station (Site). The Site is an inactive compressor station located in Section 26, Township 22 South, Range 37 East in Lea County, New Mexico. The Site is located approximately 5 miles south of Eunice, New Mexico and 1 mile east of New Mexico Highway 18 (Figure 1). Site details are shown on Figure 2. The property of the former compressor station is owned by Mr. R.D. Simms of Eunice, New Mexico and the Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under Abatement Plan (AP)-106 and is associated with incident number nAPP2214005252.

Groundwater monitoring began at the Site in 2009 with the installation of MW-01 through MW-04. The groundwater was sampled and analyzed for benzene, toluene, ethylbenzene and xylene (BTEX), chloride, and total dissolved solids (TDS). Since 2010, concentrations of BTEX have been below laboratory detection limits and therefore, also below New Mexico Water Quality Control Commission (NMWQCC) standards. Due to the concentrations of BTEX being consistently non-detect and below NMWQCC standards, GHD discontinued analysis of BTEX in September 2015 and converted to a semi-annual monitoring schedule in May 2017. In 2019, the monitoring schedule was reduced again to an annual event.

2. Groundwater Monitoring

GHD performed annual groundwater monitoring activities at the Site on April 12, 2022. The sampling program included gauging and collecting groundwater samples from MW-01 through MW-04.

2.1 Monitoring Well Gauging

On April 12, 2022, GHD personnel measured the depth to groundwater in the wells indicated above using an electronic oil/water interface probe (IP). The IP was cleaned with laboratory-grade soap and purified water prior to gauging each monitoring well. MW-03 was dry during this monitoring event. Depth to groundwater and calculated groundwater elevations are summarized in Table 1.

Based on the data collected in 2022, groundwater flow is generally south-southeast and is consistent with historical data for the Site. A groundwater potentiometric surface map for the monitoring event is presented as Figure 3. The groundwater gradient during the event was calculated at approximately 0.001 feet per foot (ft/ft).

2.2 Groundwater Sampling

Following gauging on April 12, 2022, GHD personnel utilized dedicated polyethylene bailers to purge a minimum of three well volumes of groundwater or until the well was dry. The wells were given time to recover prior to collecting a groundwater sample. Groundwater quality parameters of pH, temperature, oxidation reduction potential, and conductivity were collected using a calibrated multi parameter groundwater quality meter and were recorded on GHD groundwater sampling forms.

Groundwater samples were collected, placed in laboratory-prepared sample containers, packed in a cooler with ice, and transported under Chain-of-Custody documentation to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. Groundwater samples were analyzed for chloride by Environmental Protection Agency (EPA) Method 300.0 and for total dissolved solids (TDS) by Standard Method 2540C.

2.3 Quality Assurance/Quality Control

During each groundwater monitoring event, a field duplicate was collected as a quality assurance/quality control (QA/QC) sample and subsequently submitted for laboratory analysis. A trip blank was also submitted as a QA/QC sample for each groundwater monitoring event.

2.4 Analytical Results

The New Mexico Water Quality Control Commission (NMWQCC) mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use.

The groundwater analytical results are summarized in Table 2 and the corresponding laboratory analytical reports are included in Appendix A. A chloride concentration map depicting chloride concentrations for the 2022 sampling event is included as Figure 4.

Groundwater collected from MW-1 has consistently exceeded the NMWQCC standard for chloride. During the 2022 monitoring event, the concentration of chloride in MW-1 and MW-4 was 300 milligrams per liter (mg/L), just above the 250 mg/L NMWQCC standard for chloride. Analytical results from samples collected from MW-1 show a general decreasing trend in chloride concentrations over time as shown on Figure 5. This is only the second time a chloride detection in MW-4 has exceeded the NMWQCC standard.

Groundwater from MW-1 and MW-4 has also consistently exceeded the standard for TDS when sampled for this constituent. Concentrations of TDS in groundwater samples collected in April 2022 were 1,160 mg/L in MW-1 and 1,090 mg/L in MW-4, just above the NMWQCC standard of 1,000 mg/L.

Concentrations of chloride and TDS detected in MW-2 and MW-3 have consistently been below the NMWQCC standards since initiation of monitoring in 2009.

3. Summary and Recommendations

3.1 Summary

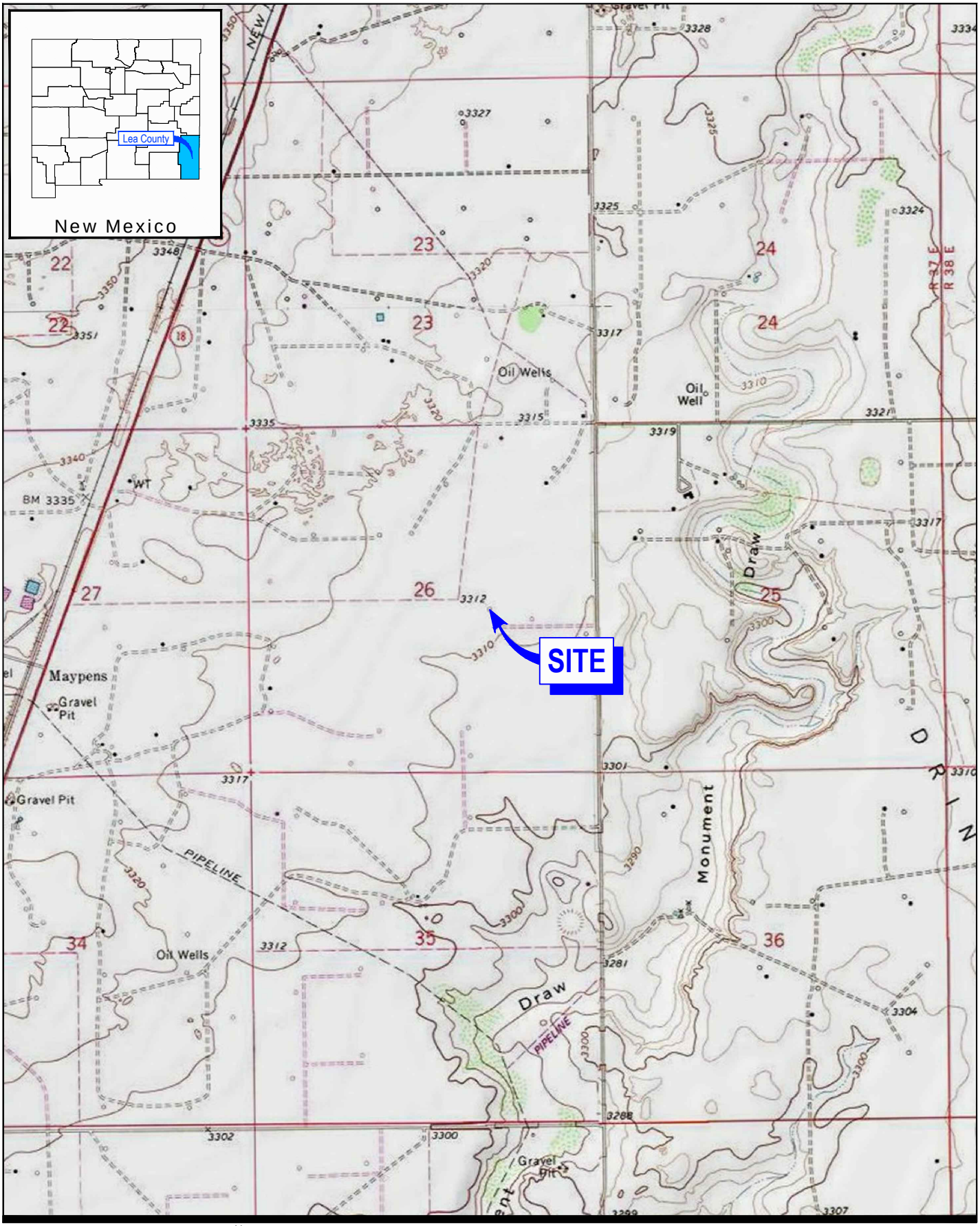
The following summarizes the information and data presented in this report.

- Since 2010, concentrations of BTEX in groundwater samples from all four monitoring wells have been below laboratory detection limits and therefore, also below NMWQCC standards.
- Groundwater samples collected from monitoring wells MW-2 and MW-3 have not had detections of chloride or TDS in exceedance of NMWQCC standards since sampling was initiated in 2009.
- The chloride concentration in MW-4 exceeded the NMWQCC standard for the second time; however, the detection was just above NMWQCC standards and the same as the detection in MW-1.
- Although chloride and TDS concentrations in groundwater samples collected from MW-1 have consistently exceeded the NMWQCC standard, they have been decreasing over time and are currently just above NMWQCC standards.

4. Recommendations

Based on the results of the 2022 groundwater monitoring events, GHD, on behalf of ETC, requests that the Boyd Compressor Station be granted no further action status based on the following:

– BTEX has been below laboratory detection limits in all groundwater samples collected from the Site since 2010.
– Chloride and TDS concentrations detected in 2022 in MW-2 are below NMWQCC standards.
– Chloride and TDS concentrations detected in 2022 in MW 1 and MW 4 are just above NMWQCC standards and have generally shown a decreasing or stable trend.



0 1000 2000 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

ETC TEXAS PIPELINE, LTD.
LEA COUNTY, NEW MEXICO
BOYD COMPRESSOR STATION

Project No. **12574720**
Date **July 2022**

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12574720\Digital_Design\ACAD\Figures\RPT002\12574720-GHD-0000-EN-RPT-0101_DL-002.dwg
Plot Date: 16 July 2022 11:35 PM

Source: USGS 7.5 Minute Quad "Rattlesnake Canyon and Eunice SE, New Mexico"
Lat/Long: 32.362468° North, 103.130500° West

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

ETC TEXAS PIPELINE, LTD.
LEA COUNTY, NEW MEXICO
BOYD COMPRESSOR STATION

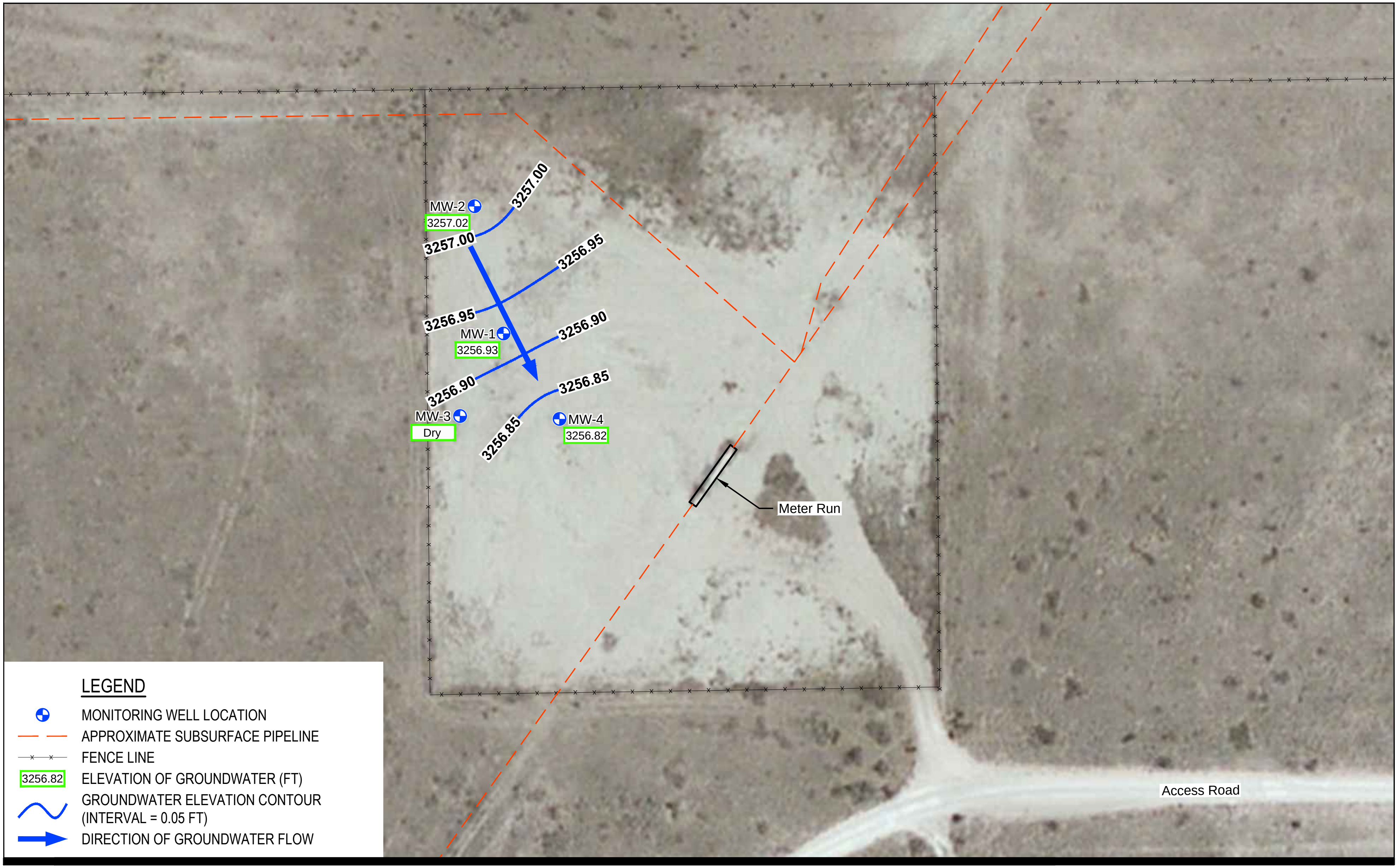
SITE MAP

Project No. **12574720**
Date **July 2022**

FIGURE 2

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12574720\Digital_Design\ACAD\Figures\RPT002\12574720-GHD-0000-EN-RPT-0101_DL-002.dwg
Plot Date: 26 July 2022 1:29 PM

Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.362468° North, 103.130500° West



Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

GHD

ETC TEXAS PIPELINE, LTD.
LEA COUNTY, NEW MEXICO
BOYD COMPRESSOR STATION

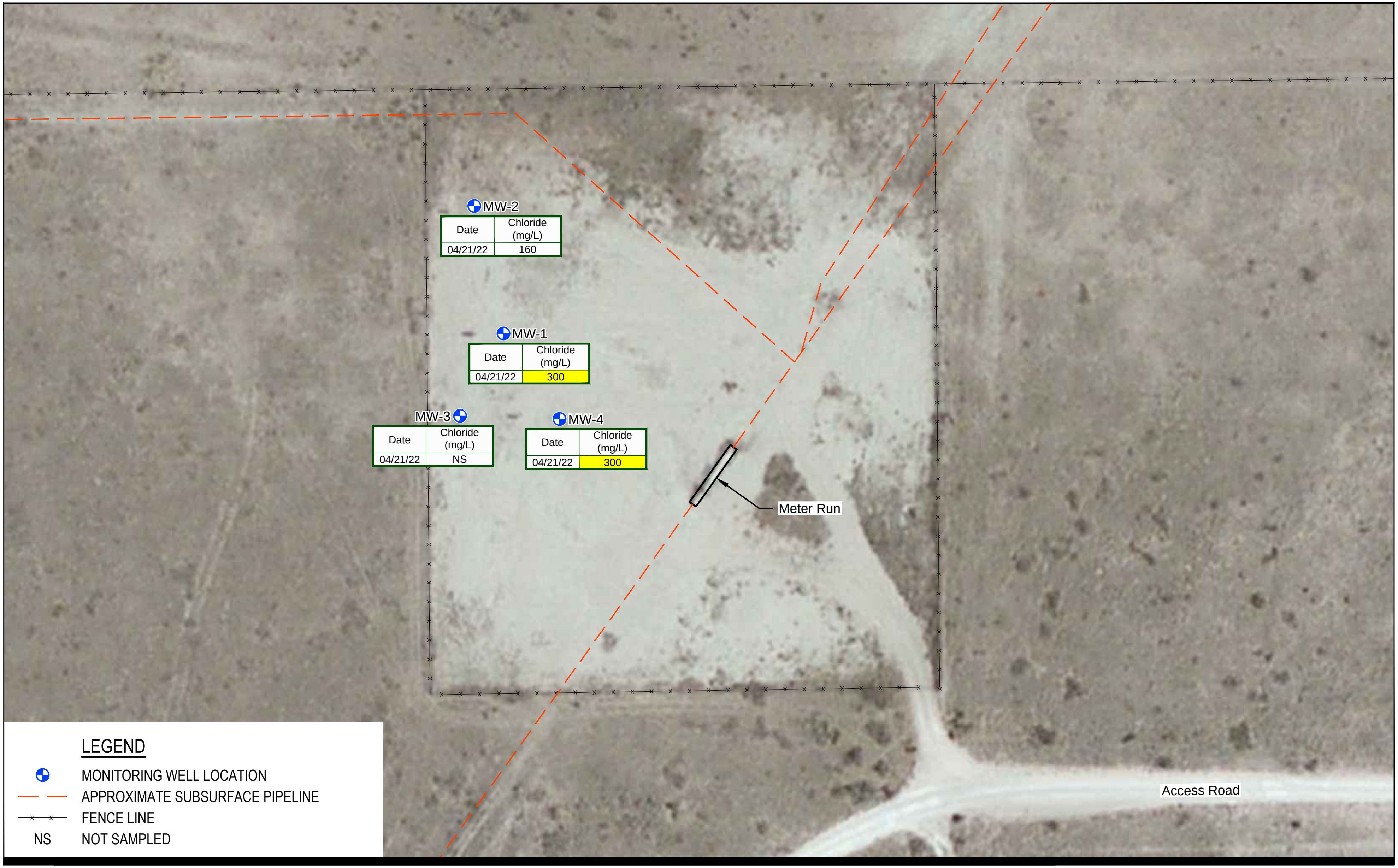
GROUNDWATER GRADIENT MAP - APRIL 2022

Project No. **12574720**
Date **July 2022**

FIGURE 3

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12574720\Digital_Design\ACAD\Figures\RPT002\12574720-GHD-0000-EN-RPT-0101_DL-002.dwg

Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.362468° North, 103.130500° West



0 40 80 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

NOTES:

1. RESULTS IN MILLIGRAMS PER LITER (MG/L).
2. YELLOW SHADED CELLS INDICATE EXCEEDANCE OF THE NMWQCC STANDARD OF 250 (MG/L).

GHD

ETC TEXAS PIPELINE, LTD.
LEA COUNTY, NEW MEXICO
BOYD COMPRESSOR STATION

2022 CHLORIDE CONCENTRATIONS IN GROUNDWATER

Project No. **12574720**
Date **July 2022**

FIGURE 4

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12574720\Digital_Design\ACAD\Figures\RPT002\12574720-GHD-0000-EN-RPT-0101_DL-002.dwg
Plot Date: 06 July 2022 11:28 PM

Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.362468° North, 103.130500° West

Table 1

Groundwater Elevations Summary
ETC Texas Pipeline, Ltd.
Boyd Compressor Station
Lea County, New Mexico

Well ID	Top of Casing (ft AMSL)	Total Well Depth (ft below TOC)	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-1	3,316.67	69.35	6/26/2009	--	58.95	--	3,257.72
			3/25/2010	--	59.07	--	3,257.60
			6/28/2010	--	59.32	--	3,257.35
			10/29/2010	--	59.12	--	3,257.55
			2/8/2011	--	59.17	--	3,257.50
			9/28/2011	--	59.36	--	3,257.31
			12/1/2011	--	59.36	--	3,257.31
			2/9/2012	--	59.45	--	3,257.22
			5/16/2012	--	58.00	--	3,258.67
			8/31/2012	--	58.01	--	3,258.66
			11/2/2012	--	59.50	--	3,257.17
			2/7/2013	--	59.67	--	3,257.00
			5/10/2013	--	59.48	--	3,257.19
			9/4/2013	--	59.71	--	3,256.96
			8/12/2014	--	59.75	--	3,256.92
			10/23/2014	--	59.23	--	3,257.44
			1/23/2015	--	59.11	--	3,257.56
			4/20/2015	--	59.00	--	3,257.67
			9/30/2015	--	58.96	--	3,257.71
			12/15/2015	--	58.86	--	3,257.81
			3/16/2016	--	58.76	--	3,257.91
			6/29/2016	--	58.81	--	3,257.86
			9/30/2016	--	58.88	--	3,257.79
			11/30/2016	--	58.81	--	3,257.86
			5/10/2017	--	58.84	--	3,257.83
			11/16/2017	--	58.85	--	3,257.82
			5/13/2018	--	58.90	--	3,257.77
			11/7/2018	--	59.02	--	3,257.65
			5/15/2019	--	59.06	--	3,257.61
			7/15/2020	--	59.30	--	3,257.37
			4/21/2021	--	59.58	--	3,257.09
			4/12/2022	--	59.74	--	3,256.93
MW-2	3,317.02	69.64	6/26/2009	--	59.16	--	3,257.86
			3/25/2010	--	59.32	--	3257.70
			6/28/2010	--	59.97	--	3,257.05
			10/29/2010	--	57.36	--	3,259.66
			2/8/2011	--	59.4	--	3,257.62
			9/28/2011	--	59.57	--	3,257.45
			12/1/2011	--	60.65	--	3,256.37
			2/9/2012	--	59.65	--	3,257.37
			5/16/2012	--	59.65	--	3,257.37
			8/31/2012	--	59.60	--	3,257.42
			11/2/2012	--	59.75	--	3,257.27
			2/7/2013	--	59.84	--	3,257.18
			5/10/2013	--	59.86	--	3,257.16
			9/4/2013	--	59.00	--	3,258.02
			8/12/2014	--	60.02	--	3,257.00
			10/23/2014	--	59.47	--	3,257.55
			1/23/2015	--	59.41	--	3,257.61
			4/20/2015	--	59.27	--	3,257.75
			9/30/2015	--	59.21	--	3,257.81
			12/15/2015	--	59.12	--	3,257.90
			3/16/2016	--	59.02	--	3,258.00
			6/29/2016	--	59.07	--	3,257.95
			9/30/2016	--	59.14	--	3,257.88
			11/30/2016	--	59.06	--	3,257.96
			5/10/2017	--	59.12	--	3,257.90
			11/16/2017	--	59.14	--	3,257.88
			5/13/2018	--	59.12	--	3,257.90
			11/7/2018	--	59.31	--	3,257.71
			5/15/2019	--	59.33	--	3,257.69
			7/15/2020	--	59.58	--	3,257.44
			4/21/2021	--	59.85	--	3,257.17
			4/12/2022	--	60.00	--	3,257.02

Table 1

Groundwater Elevations Summary
ETC Texas Pipeline, Ltd.
Boyd Compressor Station
Lea County, New Mexico

Well ID	Top of Casing (ft AMSL)	Total Well Depth (ft below TOC)	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-3	3,317.52	69.50	6/26/2009	--	59.16	--	3,258.36
			3/25/2010	--	59.92	--	3,257.60
			6/28/2010	--	59.97	--	3,257.55
			10/29/2010	--	60.16	--	3,257.36
			2/8/2011	--	59.40	--	3,258.12
			9/28/2011	--	60.23	--	3,257.29
			12/1/2011	--	65.20	--	3,252.32
			2/9/2012	--	60.30	--	3,257.22
			5/16/2012	--	60.30	--	3,257.22
			8/31/2012	--	60.30	--	3,257.22
			11/2/2012	--	59.97	--	3,257.55
			2/7/2013	--	60.55	--	3,256.97
			5/10/2013	--	60.48	--	3,257.04
			9/4/2013	--	60.80	--	3,256.72
			8/12/2014	--	60.66	--	3,256.86
			10/23/2014	--	60.13	--	3,257.39
			1/23/2015	--	60.03	--	3,257.49
			4/20/2015	--	59.88	--	3,257.64
			9/30/2015	--	59.84	--	3,257.68
			12/15/2015	--	59.74	--	3,257.78
			3/16/2016	--	59.64	--	3,257.88
			6/29/2016	--	59.69	--	3,257.83
			9/30/2016	--	59.76	--	3,257.76
			11/30/2016	--	59.68	--	3,257.84
			5/10/2017	--	59.73	--	3,257.79
			11/16/2017	--	59.75	--	3,257.77
			5/13/2018	--	59.77	--	3,257.75
			11/7/2018	--	59.10	--	3,258.42
			5/15/2019	--	59.99	--	3,257.53
			7/15/2020	--	60.20	--	3,257.32
			4/21/2021	--	60.50	--	3,257.02
			4/12/2022	--	DRY	--	na
MW-4	3,317.06	68.95	6/26/2009	--	59.36	--	3,257.70
			3/25/2010	--	59.50	--	3,257.56
			6/28/2010	--	59.12	--	3,257.94
			10/29/2010	--	59.58	--	3,257.48
			2/8/2011	--	59.61	--	3,257.45
			9/28/2011	--	59.78	--	3,257.28
			12/1/2011	--	59.25	--	3,257.81
			2/9/2012	--	59.85	--	3,257.21
			5/16/2012	--	59.85	--	3,257.21
			8/31/2012	--	59.80	--	3,257.26
			11/2/2012	--	59.80	--	3,257.26
			2/7/2013	--	60.10	--	3,256.96
			5/10/2013	--	60.63	--	3,256.43
			9/4/2013	--	60.21	--	3,256.85
			8/12/2014	--	60.22	--	3,256.84
			10/23/2014	--	59.69	--	3,257.37
			1/23/2015	--	59.59	--	3,257.47
			4/20/2015	--	59.43	--	3,257.63
			9/30/2015	--	59.39	--	3,257.67
			12/15/2015	--	59.29	--	3,257.77
			3/16/2016	--	59.20	--	3,257.86
			6/29/2016	--	59.26	--	3,257.80
			9/30/2016	--	59.32	--	3,257.74
			11/30/2016	--	59.23	--	3,257.83
			5/10/2017	--	59.29	--	3,257.77
			11/16/2017	--	59.32	--	3,257.74
			5/13/2018	--	59.34	--	3,257.72
			11/7/2018	--	59.52	--	3,257.54
			5/15/2019	--	59.54	--	3,257.52
			7/15/2020	--	59.77	--	3,257.29
			4/21/2021	--	60.06	--	3,257.00
			4/12/2022	--	60.24	--	3,256.82

Notes:
1) ft = feet
2) AMSL = above mean sea level
3) TOC = top of casing
4) -- = not detected
5) na = not applicable

Table 2

Groundwater Analytical Results Summary
ETC Texas Pipeline, Ltd.
Boyd Compressor Station
Lea County, New Mexico

Well ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chloride (mg/L)	TDS (mg/L)
NMWQCC Standards		**0.005**	**1.0**	**0.7**	**0.62**	**250**	**1,000**
MW-1	1/15/2009	<0.00100	<0.00100	<0.00100	<0.00100	**2,610**	--
	3/25/2010	0.00150	0.00190	<0.00100	<0.00100	--	--
	7/1/2010	<0.00100	<0.00200	<0.00100	<0.00100	**6,000**	--
	10/29/2010	<0.00100	<0.00200	<0.00100	<0.00100	**5,910**	--
	2/8/2011	<0.00100	<0.00200	<0.00100	<0.00100	**5,400**	--
	9/28/2011	<0.00500	<0.00500	<0.00500	<0.0100	**4,250**	--
	12/1/2011	<0.00100	<0.00200	<0.00100	<0.00200	**4,050**	--
	2/9/2012	<0.00100	<0.00200	<0.00100	<0.00200	**3,800**	--
	5/16/2012	<0.00100	<0.00200	<0.00100	<0.00200	**3,420**	--
	8/31/2012	<0.00100	<0.00200	<0.00100	<0.00100	**3,580**	--
	11/2/2012	<0.00100	<0.00200	<0.00100	<0.00100	**3,100**	--
	2/7/2013	<0.00100	<0.00200	<0.00100	<0.00200	**3,680**	--
	5/10/2013	<0.00100	<0.00200	<0.00100	<0.00200	**3,590**	--
	9/4/2013	<0.00100	<0.00200	<0.00100	<0.00200	**3,230**	--
	2/28/2014	<0.00100	<0.00200	<0.00100	<0.00100	**2,390**	--
	8/12/2014	<0.00100	<0.00200	<0.00100	<0.00100	**1,680**	--
	10/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	**1,980**	--
	1/23/2015	<0.00100	<0.00100	<0.00100	<0.00100	**2,630**	--
	4/20/2015	<0.00100	<0.00100	<0.00100	<0.00100	**2,710**	--
	9/30/2015	--	--	--	--	**3,100**	**5,860**
	12/15/2015	--	--	--	--	**1,700**	**3,680**
	12/15/2015 (DUP)	--	--	--	--	**1,900**	**3,510**
	3/16/2016	--	--	--	--	**2,800**	**4,940**
	3/16/2016 (DUP)	--	--	--	--	**2,900**	**5,290**
	6/29/2016	--	--	--	--	**1,700**	**3,480**
	6/29/2016 (DUP)	--	--	--	--	**1,700**	**3,440**
	9/30/2016	--	--	--	--	**2,000**	**3,710**
	11/30/2016	--	--	--	--	**2,000**	**3,340**
	5/10/2017	--	--	--	--	**2,500**	**4,080**
	11/16/2017	--	--	--	--	**1,900**	**3,930**
	5/13/2018	--	--	--	--	**1,600**	**3,410**
	11/7/2018	--	--	--	--	**1,100**	--
	5/15/2019	--	--	--	--	**1,100**	**2,320**
	7/15/020	--	--	--	--	**810**	**1,990**
	4/21/2021	--	--	--	--	**400**	**1,320**
	4/12/2022	--	--	--	--	**300**	**1,160**
MW-2	1/15/2009	<0.00100	<0.00100	<0.00100	<0.00100	145	--
	3/25/2010	<0.00100	0.00130	<0.00100	<0.00100	--	--
	7/1/2010	<0.00100	<0.0020	<0.00100	<0.00100	130	--
	10/29/2010	<0.00100	<0.0020	<0.00100	<0.00100	141	--
	2/8/2011	<0.00100	<0.0020	<0.00100	<0.00100	126	--
	9/28/2011	<0.00500	<0.00500	<0.00500	<0.0100	148	--
	12/1/2011	<0.00100	<0.00200	<0.00100	<0.00200	126	--
	2/9/2012	<0.00100	<0.00200	<0.00100	<0.00200	129	--
	5/16/2012	<0.00100	<0.00200	<0.00100	<0.00200	135	--
	8/31/2012	<0.00100	<0.00200	<0.00100	<0.00100	132	--
	11/2/2012	<0.00100	<0.00200	<0.00100	<0.00100	164	--
	2/7/2013	<0.00100	<0.00200	<0.00100	<0.00200	169	--
	5/10/2013	<0.00100	<0.00200	<0.00100	<0.00200	144	--
	9/4/2013	<0.00100	<0.00200	<0.00100	<0.00200	155	--
	2/28/2014	<0.00100	<0.00200	<0.00100	<0.00100	161	--
	8/12/2014	<0.00100	<0.00200	<0.00100	<0.00100	139	--
	10/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	149	--
	1/23/2015	<0.00100	<0.00100	<0.00100	<0.00100	127	--
	4/20/2015	<0.00100	<0.00100	<0.00100	<0.00100	193	--
	9/30/2015	--	--	--	--	180	--
	9/30/2015 (DUP)	--	--	--	--	190	835
	12/15/2015	--	--	--	--	170	880
	3/16/2016	--	--	--	--	180	870
	6/29/2016	--	--	--	--	170	866
	9/30/2016	--	--	--	--	170	857
	11/30/2016	--	--	--	--	180	947
	5/10/2017	--	--	--	--	160	765
	11/16/2017	--	--	--	--	160	865
	5/13/2018	--	--	--	--	130	860
	11/7/2018	--	--	--	--	120	--
	5/15/2019	--	--	--	--	110	756
	7/15/2020	--	--	--	--	88	688
	4/21/2021	--	--	--	--	140	744
	4/12/2022	--	--	--	--	160	790

Table 2

Groundwater Analytical Results Summary
ETC Texas Pipeline, Ltd.
Boyd Compressor Station
Lea County, New Mexico

Well ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chloride (mg/L)	TDS (mg/L)
NMWQCC Standards		**0.005**	**1.0**	**0.7**	**0.62**	**250**	**1,000**
MW-3	1/15/2009	<0.00100	<0.00100	<0.00100	<0.00100	150	--
	3/25/2010	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	7/1/2010	<0.00100	<0.00200	<0.00100	<0.00100	124	--
	10/29/2010	<0.00100	<0.00200	<0.00100	<0.00100	124	--
	2/8/2011	<0.00100	<0.00200	<0.00100	<0.00100	109	--
	9/28/2011	<0.00500	<0.00500	<0.00500	<0.0100	138	--
	12/1/2011	<0.00100	<0.00200	<0.00100	<0.00200	115	--
	2/9/2012	<0.00100	<0.00200	<0.00100	<0.00200	107	--
	5/16/2012	<0.00100	<0.00200	<0.00100	<0.00200	110	--
	8/31/2012	<0.00100	<0.00200	<0.00100	<0.00100	109	--
	11/2/2012	<0.00100	<0.00200	<0.00100	<0.00100	126	--
	2/7/2013	<0.00100	<0.00200	<0.00100	<0.00200	127	--
	5/10/2013	<0.00100	<0.00200	<0.00100	<0.00200	100	--
	9/4/2013	<0.00100	<0.00200	<0.00100	<0.00200	115	--
	2/28/2014	<0.00100	<0.00200	<0.00100	<0.00100	117	--
	8/12/2014	<0.00100	<0.00200	<0.00100	<0.00100	105	--
	10/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	97	--
	1/23/2015	<0.00100	<0.00100	<0.00100	<0.00100	81	--
	4/20/2015	<0.00100	<0.00100	<0.00100	<0.00100	88	--
	9/30/2015	--	--	--	--	170	740
	12/15/2015	--	--	--	--	160	852
	3/16/2016	--	--	--	--	110	740
	6/29/2016	--	--	--	--	120	810
	9/30/2016	--	--	--	--	130	772
	11/30/2016	--	--	--	--	200	980
	5/10/2017	--	--	--	--	170	765
	11/16/2017	--	--	--	--	150	824
	5/13/2018	--	--	--	--	170	888
	11/7/2018	--	--	--	--	140	--
	5/15/2019	--	--	--	--	140	772
	5/15/2019 (DUP)	--	--	--	--	120	775
	7/15/2020	--	--	--	--	130	840
	4/21/2021	--	--	--	--	130	752
MW-4	1/15/2009	<0.00100	<0.00100	<0.00100	<0.00100	208	--
	3/25/2010	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	7/1/2010	<0.00100	<0.0020	<0.00100	<0.00100	187	--
	10/29/2010	<0.00100	<0.0020	<0.00100	<0.00100	196	--
	2/8/2011	<0.00100	<0.0020	<0.00100	<0.00100	180	--
	9/28/2011	<0.00500	<0.00500	<0.00500	<0.0100	221	--
	12/1/2011	<0.00100	<0.00200	<0.00100	<0.00200	206	--
	2/9/2012	<0.00100	<0.00200	<0.00100	<0.00200	214	--
	5/16/2012	<0.00100	<0.00200	<0.00100	<0.00200	195	--
	8/31/2012	<0.00100	<0.00200	<0.00100	<0.00100	216	--
	11/2/2012	<0.00100	<0.00200	<0.00100	<0.00100	216	--
	2/7/2013	<0.00100	<0.00200	<0.00100	<0.00200	227	--
	5/10/2013	<0.00100	<0.00200	<0.00100	<0.00200	201	--
	9/4/2013	<0.00100	<0.00200	<0.00100	<0.00200	195	--
	2/28/2014	<0.00100	<0.00200	<0.00100	<0.00100	199	--
	8/12/2014	<0.00100	<0.00200	<0.00100	<0.00100	203	--
	10/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	192	--
	1/23/2015	<0.00100	<0.00100	<0.00100	<0.00100	197	--
	4/20/2015	<0.00100	<0.00100	<0.00100	<0.00100	215	--
	9/30/2015	--	--	--	--	200	930
	12/15/2015	--	--	--	--	210	980
	3/16/2016	--	--	--	--	210	956
	6/29/2016	--	--	--	--	200	950
	9/30/2016	--	--	--	--	190	904
	9/30/2016 (DUP)	--	--	--	--	210	896
	11/30/2016	--	--	--	--	190	985
	5/10/2017	--	--	--	--	200	870
	11/16/2017	--	--	--	--	180	955
	5/13/2018	--	--	--	--	200	968
	11/7/2018	--	--	--	--	190	--
	11/7/2018 (DUP)	--	--	--	--	190	--
	5/15/2019	--	--	--	--	210	942
	7/15/2020	--	--	--	--	**250**	**1,060**
	7/15/2020 (DUP)	--	--	--	--	**280**	**1,090**
	4/21/2021	--	--	--	--	240	**1,060**
	4/21/2021 (DUP)	--	--	--	--	240	**1,030**
	4/12/2022	--	--	--	--	**300**	**1,090**

Notes:
1) Analytical results are presented in milligrams per liter (mg/L).
2) NMWQCC = New Mexico Water Quality Control Commission
3) TDS = total dissovled solids
4) < - Analyte was not detected at or above the laboratory reported detection limit.
5) -- = not analyzed
6) Bolded/shaded results exceed their respective NMWQCC standard.

Appendices

Appendix A

Laboratory Analytical Report

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 22, 2022

Christine Mathews
GHD
6121 Indian School Road, NE #200
Albuquerque, NM 87110
TEL: (505) 884-0672
FAX:

RE: Boyd OrderNo.: 2204566

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/13/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204566**
Date Reported: **4/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** GW-12574720-041222-CN-MW
Project: Boyd **Collection Date:** 4/12/2022 11:00:00 AM
Lab ID: 2204566-001 **Matrix:** GROUNDWA **Received Date:** 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	330	50	*	mg/L	100	4/13/2022 5:56:30 PM	R87234
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	1160	40.0	*D	mg/L	1	4/14/2022 7:26:00 PM	66834

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

Qualifiers:

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

Analytical Report
Lab Order **2204566**
Date Reported: **4/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** GW-12574720-041222-CN-MW
Project: Boyd **Collection Date:** 4/12/2022 12:00:00 PM
Lab ID: 2204566-002 **Matrix:** GROUNDWA **Received Date:** 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	160	5.0		mg/L	10	4/13/2022 6:09:22 PM	R87234
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	790	100	*D	mg/L	1	4/14/2022 7:26:00 PM	66834

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

Qualifiers:

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

Analytical Report
Lab Order **2204566**
Date Reported: **4/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** GW-12574720-041222-CN-MW
Project: Boyd **Collection Date:** 4/12/2022 1:00:00 PM
Lab ID: 2204566-003 **Matrix:** GROUNDWA **Received Date:** 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	300	50	*	mg/L	100	4/13/2022 6:47:59 PM	R87234
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	1090	100	*D	mg/L	1	4/14/2022 7:26:00 PM	66834

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

Qualifiers:

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

Analytical Report
Lab Order **2204566**
Date Reported: **4/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** GW-12574720-041222-CN-DUP
Project: Boyd **Collection Date:** 4/12/2022
Lab ID: 2204566-004 **Matrix:** GROUNDWA **Received Date:** 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	310	50	*	mg/L	100	4/13/2022 7:39:24 PM	R87234
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	1120	100	*D	mg/L	1	4/14/2022 7:26:00 PM	66834

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204566**

22-Apr-22

Client: GHD

Project: Boyd

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R87234**	RunNo: **87234**
Prep Date:	Analysis Date: **4/13/2022**	SeqNo: **3084775** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R87234**	RunNo: **87234**
Prep Date:	Analysis Date: **4/13/2022**	SeqNo: **3084776** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.2	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204566**

22-Apr-22

Client: GHD

Project: Boyd

Sample ID: **MB-66834**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **66834**	RunNo: **87254**
Prep Date: **4/13/2022**	Analysis Date: **4/14/2022**	SeqNo: **3085324** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-66834**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **66834**	RunNo: **87254**
Prep Date: **4/13/2022**	Analysis Date: **4/14/2022**	SeqNo: **3085325** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Sample ID: **2204566-001ADUP**	SampType: **DUP**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **GW-12574720-04122**	Batch ID: **66834**	RunNo: **87254**
Prep Date: **4/13/2022**	Analysis Date: **4/14/2022**	SeqNo: **3085329** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1160	40.0						0.518	10	*D

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Work Order Number: 2204566 RcptNo: 1

Received By: Cheyenne Cason 4/13/2022 7:30:00 AM

Completed By: Desiree Dominguez 4/13/2022 8:25:54 AM

Reviewed By: JN 4/13/22

Chain of Custody

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

Log In

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

10

# of preserved bottles checked for pH: 4/13/22

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

Phone #: 505 2690086

email or Fax#: Christine.Mathews@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Boyd

Project #: 12574720

Project Manager: Christine Mathews

Sampler: CM

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.1 -0.1 =5.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204566	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride	TDS				
4-12-22	1100	W	GHD-12574720-041222-CN-MW1	1		-001											X	X				
4-12-22	1200	W	GHD-12574720-041222-CN-MW2	1		-002											X	X				
4-12-22	1300	W	GHD-12574720-041222-CN-MW4	1		-003											X	X				
4-12-22	—	W	GHD-12574720-041222-CN-DUP	1		-004											X	X				

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4-12-22	1700				4-12-22	1700
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/12/22	1900		CMC courier		4/13/22	0730

Remarks:

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

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

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

CONDITIONS

Operator: REGENCY FIELD SERVICES LLC 8111 Westchester Drive Dallas, TX 75225	OGRID: 298751
	Action Number: 231961
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 Annual Groundwater Monitoring Report submitted for Boyd Compression Station: Content is Satisfactory. 1) Continue groundwater monitoring until all chemicals of concern, particularly TDS and Chloride in MW-1 and MW-4 have demonstrated a level below NMWQCC standards for eight (8) consecutive quarters. 2) A site Abatement Closure report pursuant to 19.15.30.19 subsection A and B may be submitted if and when all requirements set forth in 19.15.30.9 of the NMAC have been met. 3) Please submit the 2023 Annual Groundwater Report by April 1, 2024.	9/1/2023