



ENSOLUM

March 23, 2026

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: 2025 Annual Groundwater Monitoring Report

Flora Vista #1
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: nCS1907338841
NMOCD Administrative Order: 3R-173

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *2025 Annual Groundwater Monitoring Report* to the New Mexico Oil Conservation Division (NMOCD) to document groundwater monitoring activities conducted at the Flora Vista #1 natural gas production well (Site) during 2025. The Site is located on private property in Unit Letter F, Section 20, Township 30 N, Range 12 W, of San Juan County, New Mexico (Figure 1).

Currently, there are five groundwater monitoring wells (MW-1 through MW-5) at the Site, which are monitored for groundwater elevations and sampled semi-annually. Two additional domestic wells (DW-1 and DW-2) have historically been sampled as part of Site monitoring activities but are no longer sampled during regular monitoring events. Well locations and general Site features are presented on Figure 2.

SITE BACKGROUND

Several historical releases have been documented at the Site. An earthen dehydrator pit was taken out of service in 1994 and subsequently remediated between 1994 and 1996 by a previous operator. Reports documenting these activities were submitted to the NMOCD, which issued a letter to the operator on January 24, 1997, approving pit closure and remediation. Additionally, Burlington Resources (Burlington) encountered historical petroleum hydrocarbon-impacted soil during Site construction activities in 2003. Burlington ultimately excavated 9,443 cubic yards of impacted soil in attempts to remediate the Site. Burlington was unable to remove all impacted soil from the Site and impacted soils were left in place at depth. Groundwater was encountered in the excavation at a depth of approximately 25 feet below ground surface (bgs). In order to address the remaining impacts, Burlington sprayed approximately 80 barrels (bbls) of potassium permanganate into the excavation prior to backfilling in hopes of enhancing degradation of the petroleum hydrocarbon impacts.

After completion of the excavation, monitoring well MW-1 was installed in 2003 at a downgradient location from the center of the excavation (Figure 2). Groundwater monitoring included analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), as well as total petroleum hydrocarbons (TPH), with analytical results indicating the presence of benzene and total xylenes

above regulatory standards. At the request of the NMOCD, monitoring wells MW-2, MW-3, and MW-4 were installed at the Site in August 2008. Additionally, two domestic water wells located downgradient of the Site (DW-1 and DW-2 shown on Figure 2) were included in yearly sampling events to verify impacted groundwater was not migrating off-Site and onto adjacent properties.

Based on the presence of dissolved-phase petroleum hydrocarbons in groundwater, a mobile-dual phase extraction event was conducted in August 2013 and removed approximately 1,300 gallons of impacted groundwater. In order to assess potential soil and groundwater impacts originating from the on-Site above ground storage tanks (shown on Figure 2), monitoring well MW-5 was installed in September 2015. Groundwater analytical data from MW-5 indicated there were petroleum hydrocarbon constituents exceeding regulatory standards in this area. In order to further enhance remediation of residual petroleum hydrocarbons at the Site, GHD (former environmental consultant for the Site) conducted an in-situ chemical oxidation (ISCO) event in October of 2016. GHD injected a 15 percent (%) PersulfOx[®] oxidant solution into wells MW-1 and MW-5 to promote oxidation of soluble metals and petroleum hydrocarbons in groundwater. Since 2016, groundwater at the Site has been continually gauged and monitored for BTEX, dissolved iron, and dissolved manganese constituents.

In 2024, the NMOCD approved conditions outlined in the 2021 *Annual Groundwater Monitoring Report* to reduce sampling for wells MW-1 through MW-5 to a semi-annual schedule. Semi-annual monitoring will continue until constituents of concern (COCs) are reduced below the Closure Criteria. Once COCs fall below the Closure Criteria, sampling frequency will increase to quarterly and continue until eight consecutive sampling events meet the Closure Criteria. The NMOCD also approved discontinuing sampling of MW-2 for all constituents except manganese, as all other parameters have consistently met New Mexico Water Quality Control Commission (NMWQCC) standards since sampling began in 2008. Additionally, the NMOCD approved the suspension of sampling at wells DW-1 and DW-2.

SITE GROUNDWATER CLEANUP STANDARDS

The NMOCD requires groundwater quality standards be met as presented by the NMWQCC and listed in Title 20, Chapter 6, Part 2, Section 3103 (20.6.2.3103) of the New Mexico Administrative Code (NMAC). The following standards are presented for the COCs at the Site in milligrams per liter (mg/L).

- Benzene: 0.005 mg/L
- Toluene: 1.0 mg/L
- Ethylbenzene: 0.70 mg/L
- Total Xylenes: 0.62 mg/L
- Dissolved Iron: 1.0 mg/L
- Dissolved Manganese: 0.20 mg/L

GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Groundwater level measurements and samples were collected from wells MW-1 through MW-5 in February and August 2025. Groundwater level measurements were not collected from MW-1 in February because the well could not be located. Based on the location of the well, it is assumed that the well monument was buried during grading operations at the Site. Following the February sampling event, MW-1R was installed and was sampled in place of MW-1 during the August sampling event. Additionally, samples were not collected from MW-4, and MW-5 for laboratory

analysis in February 2025 due to insufficient water volume in the well. Well MW-2 was analyzed only for dissolved manganese during the first and third quarter of 2025, following NMOCD approval to suspend analysis of BTEX and dissolved iron at this well. Sampling at domestic water wells DW-1 and DW-2 was also suspended in 2024 with NMOCD approval.

Static groundwater-level monitoring included recording depth-to-groundwater measurements of each monitoring well using a Keck oil/water interface probe. The interface probe was decontaminated with Alconox[®] soap and rinsed with distilled water prior to each measurement to prevent cross-contamination. Groundwater elevations measured in monitoring wells during the 2025 sampling events, as presented in Table 1, were used to construct potentiometric surface maps (Figures 3 and 4). During the Q1 2025 event, groundwater flow was interpreted to the south-southeast, consistent with the observed gradient from MW-2 (69.15 ft) toward MW-4 (67.84 ft). In contrast, the Q3 2025 potentiometric surface indicates a shift in hydraulic gradient toward the north-northwest, with groundwater elevations decreasing from MW-3 (69.71 ft) and MW-5 (69.21 ft) toward MW-2 (65.18 ft). This variability suggests localized or transient influences on groundwater flow direction across the Site.

GROUNDWATER SAMPLING

Groundwater from each monitoring well was purged and sampled using a disposable bailer. Purging was accomplished by removing three casing volumes of stagnant groundwater from the monitoring well prior to collecting a sample. Field measurements of groundwater quality parameters, including temperature, pH, total dissolved solids, and electrical conductivity, were collected during the purging process, and are presented in Table 2.

Following well purging, groundwater samples were placed directly into laboratory-provided containers and labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. Samples were immediately sealed with zero headspace and packed on ice to preserve samples. Samples were submitted to Eurofins Environmental Testing Laboratory (Eurofins) in Albuquerque, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8260B and dissolved manganese and dissolved iron following EPA Method 200.7. Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

GROUNDWATER ANALYTICAL RESULTS

Based on data collected in 2025, benzene, ethylbenzene, and total xylene concentrations in groundwater from well MW-5 exceeded the NMWQCC standard during the August 2025 sampling event. Dissolved iron concentrations exceeded the NMWQCC standard in MW-3 and MW-5 during the August 2025 sampling event. Lastly, dissolved manganese concentrations exceeded NMWQCC standards in well MW-3 during both 2025 sampling events and in wells MW-1R, MW4, and MW-5 during in the August sampling event. A summary of analytical results is presented in Table 3 and depicted on Figure 5, with complete laboratory analytical reports attached as Appendix A.

Ensolum appreciates the opportunity to provide these environmental services to Hilcorp. Please contact either of the undersigned with any questions.

Sincerely,

Ensolum, LLC



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Senior Geologist
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Attachments:

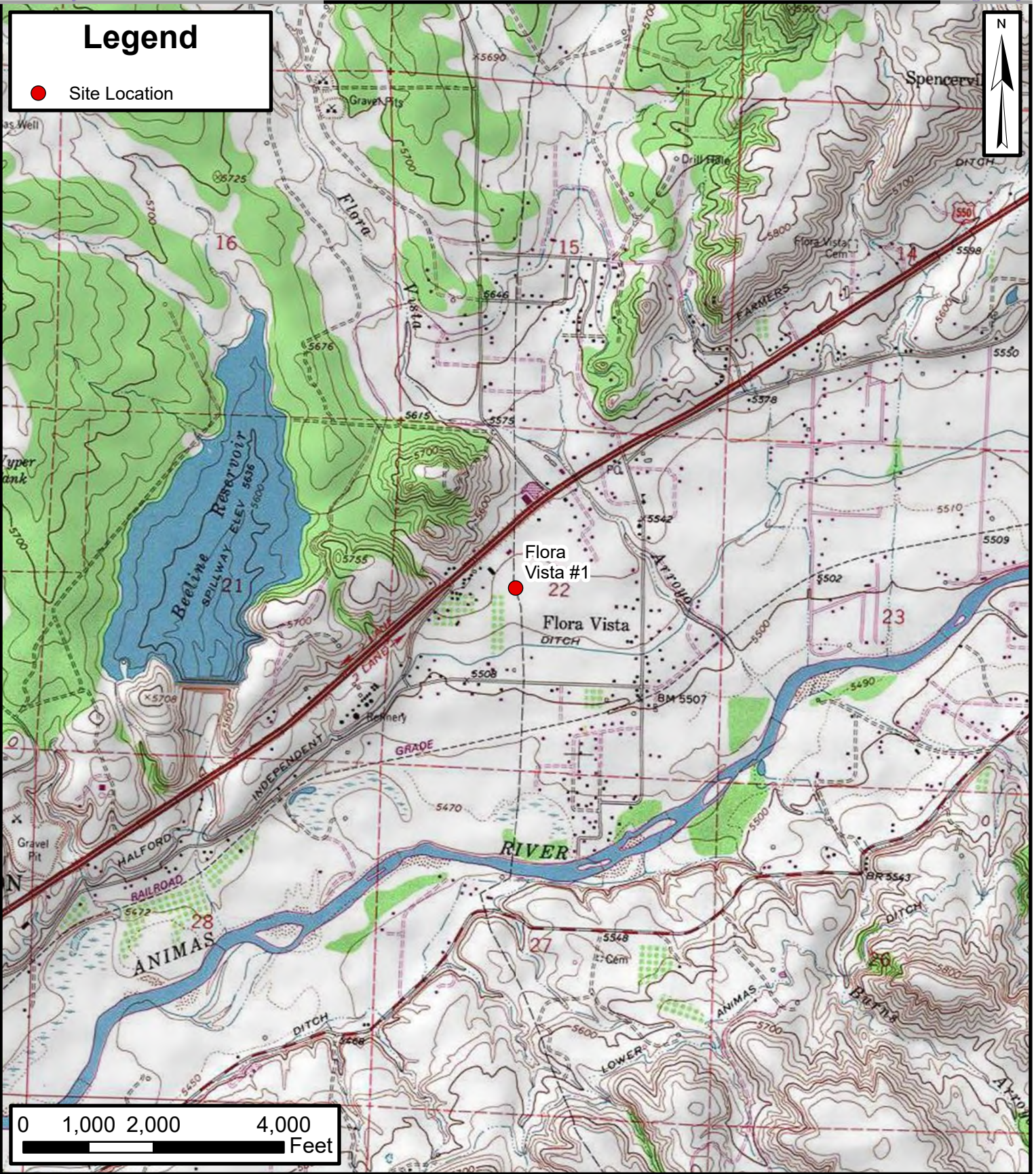
Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Groundwater Elevation Contour Map Q1 2025
Figure 4: Groundwater Elevation Contour Map Q3 2025
Figure 5: Annual Groundwater Analytical Results 2025

Table 1: Groundwater Elevations
Table 2: Groundwater Quality Measurements
Table 3: Groundwater Analytical Results

Appendix A: Analytical Laboratory Reports



FIGURES



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Site Location Map

Flora Vista #1
Hilcorp Energy Company

36.79852, -108.08759
San Juan County, New Mexico

FIGURE

1



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ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

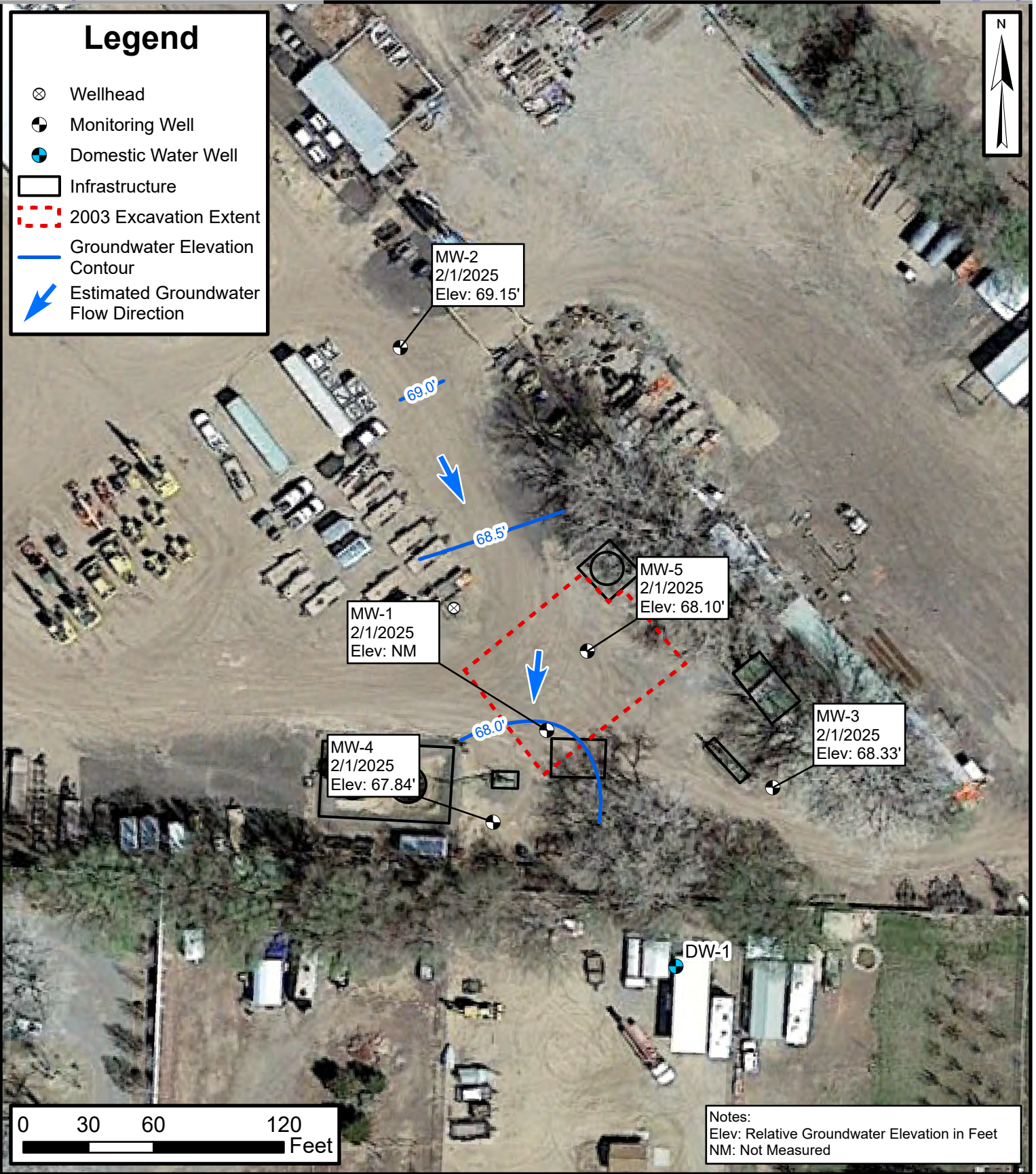
Site Map

Flora Vista #1
Hilcorp Energy Company

36.79852, -108.08759
San Juan County, New Mexico

FIGURE

2



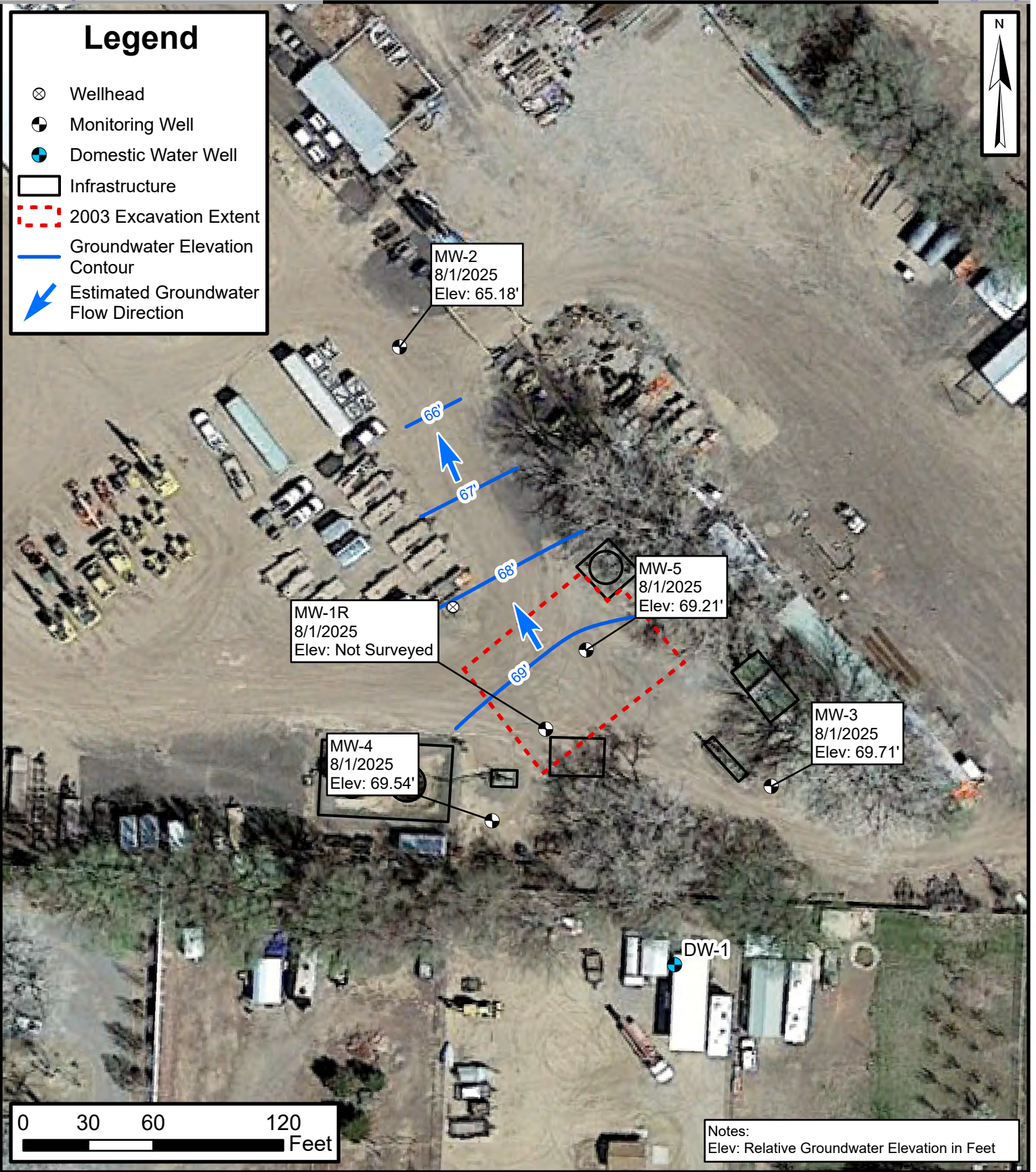
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Groundwater Elevation Contour Map Q1 2025

Flora Vista #1
Hilcorp Energy Company
36.79852, -108.08759
San Juan County, New Mexico

FIGURE
3



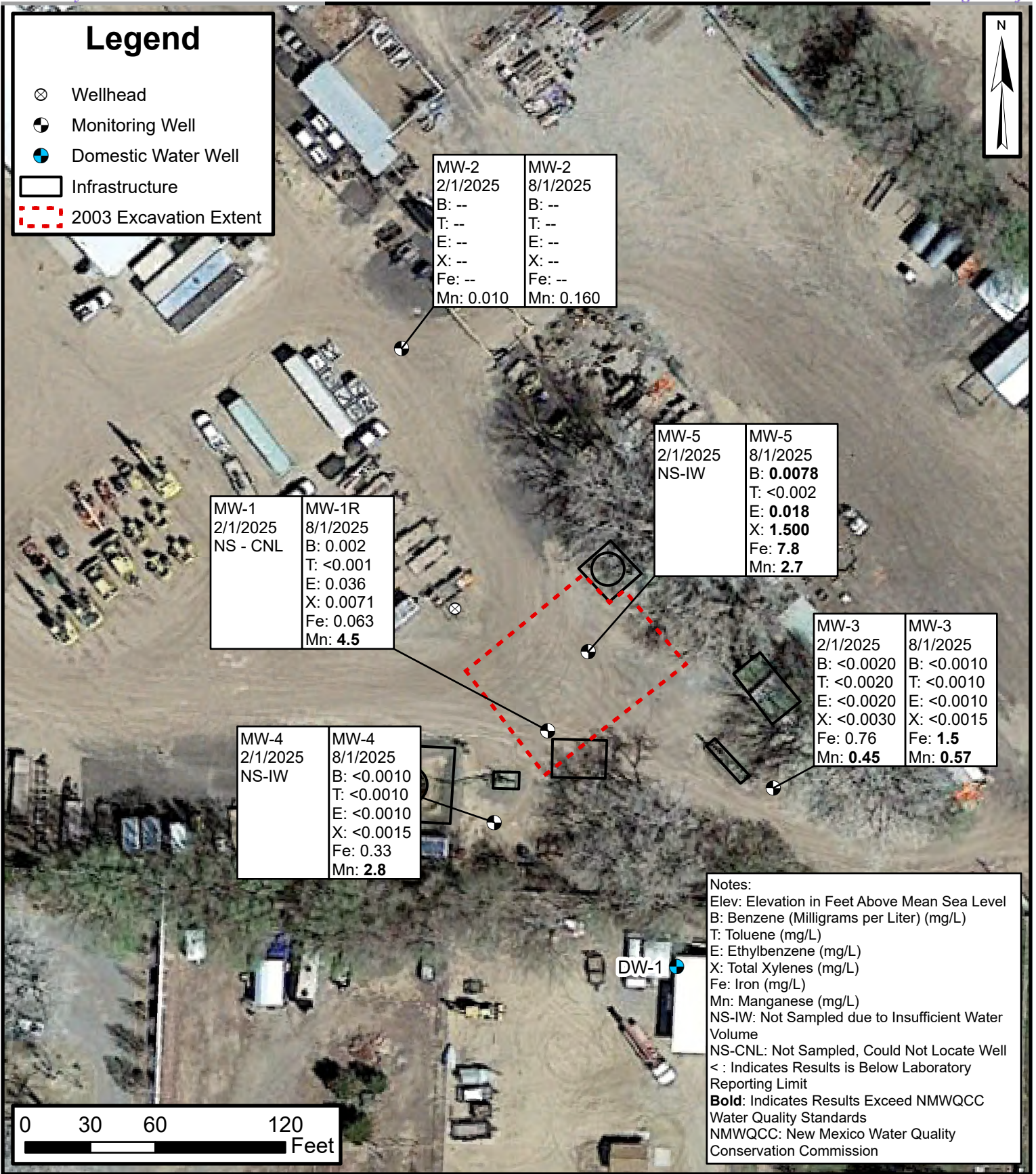
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Groundwater Elevation Contour Map Q3 2025

Flora Vista #1
Hilcorp Energy Company
36.79852, -108.08759
San Juan County, New Mexico

FIGURE
4



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Groundwater Analytical Results 2025

Flora Vista #1
 Hilcorp Energy Company

36.79852, -108.08759
 San Juan County, New Mexico

FIGURE
5



TABLES



TABLE 1 GROUNDWATER ELEVATIONS Flora Vista #1 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Total Depth (feet)	Top of Casing Elevation (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-1	26.02	94.38	6/20/2003	--	--
			9/23/2003	17.03	77.35
			12/16/2003	20.11	74.27
			3/16/2004	23.69	70.69
			6/21/2004	19.92	74.46
			9/30/2004	16.82	77.56
			12/13/2004	20.40	73.98
			3/22/2005	24.32	70.06
			6/22/2005	--	--
			10/24/2005	--	--
			12/13/2005	21.24	73.14
			3/22/2006	24.75	69.63
			6/22/2006	20.48	73.90
			10/20/2006	19.13	75.25
			12/13/2006	21.24	73.14
			11/9/2007	19.71	74.67
			1/15/2008	--	--
			3/19/2008	24.35	70.03
			7/23/2008	19.89	74.49
			10/21/2008	19.48	74.90
			1/28/2009	23.96	70.42
			9/30/2009	18.16	76.22
			6/10/2010	21.64	72.74
			9/27/2010	19.31	75.07
			12/14/2010	21.41	72.97
			3/17/2011	24.95	69.43
			6/24/2011	22.55	71.83
			9/29/2011	18.37	76.01
			12/14/2011	20.63	73.75
			3/9/2012	24.12	70.26
			6/7/2012	23.08	71.30
			9/19/2012	18.94	75.44
12/13/2012	21.22	73.16			
3/20/2013	24.79	69.59			
6/12/2013	22.51	71.87			
9/11/2013	18.34	76.04			
12/13/2013	21.53	72.85			
3/19/2014	25.26	69.12			
6/17/2014	21.55	72.83			
9/18/2014	19.58	74.80			



TABLE 1 GROUNDWATER ELEVATIONS Flora Vista #1 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Total Depth (feet)	Top of Casing Elevation (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-1	26.02	94.38	12/18/2014	Well inaccessible	
			3/19/2015	25.18	-25.18
			6/18/2015	23.56	-23.56
			9/17/2015	21.85	-21.85
			12/3/2015	22.65	-22.65
			3/31/2016*	26.02	-26.02
			6/20/2016	23.52	-23.52
			9/6/2016	20.98	-20.98
			11/29/2016	21.90	-21.90
			3/9/2017	24.72	-24.72
			6/15/2017	23.90	-23.90
			9/27/2017	21.57	-21.57
			12/5/2017	22.30	-22.30
			3/15/2018	Well Dry	
			6/27/2018	Well Dry	
			9/6/2018	22.75	-22.75
			12/20/2018	23.10	-23.10
			3/6/2019	25.20	-25.20
			6/12/2019	25.82	-25.82
			9/6/2019	23.26	-23.26
			12/9/2019	23.01	-23.01
			3/16/2020	25.62	-25.62
			6/10/2020	26.11	-26.11
			8/28/2020	26.11	-26.11
			11/5/2020	21.89	-21.89
			2/8/2021	24.68	-24.68
			6/28/2021	24.66	-24.66
			9/20/2021	DRY	--
			11/5/2021	22.42	-22.42
			2/7/2022	25.13	-25.13
			4/25/2022	26.03	-26.03
			7/28/2022	24.90	-24.90
10/27/2022	23.62	-23.62			
1/26/2023	25.29	-25.29			
5/10/2023	25.74	-25.74			
7/21/2023	25.47	-25.47			
10/20/2023	Could not Locate Well				
1/26/2024	Could not Locate Well				
4/29/2024	Could not Locate Well				
8/5/2024	Could not Locate Well				



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Well Identification	Total Depth (feet)	Top of Casing Elevation (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-1	26.02	94.38	2/1/2025	Could not Locate Well	
MW-1R			8/1/2025	24.85	--
MW-2	31.35	97.10	10/21/2008	20.71	76.39
			1/28/2009	22.75	74.35
			9/30/2009	18.83	78.27
			6/11/2010	22.09	75.01
			9/27/2010	20.12	76.98
			12/14/2010	--	--
			3/17/2011	--	--
			6/24/2011	22.50	74.60
			9/29/2011	18.95	78.15
			12/14/2011	21.79	75.31
			3/9/2012	25.60	71.50
			6/7/2012	22.46	74.64
			9/19/2012	17.70	79.40
			12/13/2012	22.43	74.67
			3/20/2013	26.49	70.61
			6/12/2013	22.13	74.97
			9/11/2013	17.95	79.15
			12/13/2013	22.78	74.32
			3/19/2014	26.99	70.11
			6/17/2014	20.31	76.79
			9/18/2014	19.87	77.23
			12/18/2014	23.00	74.10
			3/19/2015	26.92	70.18
			6/18/2015	23.24	73.86
			9/17/2015	22.78	74.32
			12/3/2015	24.23	72.87
3/31/2016	28.20	68.90			
6/20/2016	25.67	71.43			
9/6/2016	23.57	73.53			
11/29/2016	23.69	73.41			
3/9/2017	26.70	70.40			
6/15/2017	Well inaccessible				
9/27/2017	23.84	73.26			
12/5/2017	Well inaccessible				
3/15/2018	27.65	69.45			
6/27/2018	26.36	70.74			
9/6/2018	25.03	72.07			
12/20/2018	25.20	71.90			



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Well Identification	Total Depth (feet)	Top of Casing Elevation (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-2	31.35	97.10	3/7/2019	27.51	69.59
			6/13/2019	27.43	69.67
			9/6/2019	25.45	71.65
			12/10/2019	25.19	71.91
			3/26/2020	28.29	68.81
			6/10/2020	27.59	69.51
			8/28/2020	25.31	71.79
			11/5/2020	24.17	72.93
			2/8/2021	26.78	70.32
			6/28/2021	26.57	70.53
			9/20/2021	25.40	71.70
			11/5/2021	24.51	72.59
			2/8/2022	27.23	69.87
			4/25/2022	29.28	67.82
			7/28/2022	27.04	70.06
			10/27/2022	Well Dry	
			1/26/2023	27.63	69.47
			5/10/2023	29.68	67.42
			7/21/2023	27.50	69.60
			10/20/2023	25.73	71.37
1/26/2024	27.78	69.32			
4/29/2024	30.12	66.98			
8/5/2024	27.31	69.79			
2/1/2025	27.95	69.15			
8/1/2025	31.92	65.18			
MW-3	30.87	92.9	10/21/2008	17.92	74.98
			1/28/2009	21.53	71.37
			9/30/2009	16.43	76.47
			6/10/2010	19.71	73.19
			9/27/2010	17.81	75.09
			12/14/2010	19.61	73.29
			3/17/2011	23.32	69.58
			6/24/2011	20.55	72.35
			9/29/2011	16.84	76.06
			12/14/2011	19.13	73.77
			3/9/2012	22.51	70.39
			6/7/2012	20.93	71.97
			9/19/2012	17.48	75.42
			12/13/2012	19.78	73.12
3/20/2013	23.18	69.72			



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Well Identification	Total Depth (feet)	Top of Casing Elevation (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-3	30.87	92.43	6/12/2013	20.68	72.22
			9/11/2013	16.90	76.00
			12/13/2013	20.11	72.79
			3/19/2014	23.64	69.26
			6/17/2014	19.85	73.05
			9/18/2014	18.01	74.89
			12/18/2014	Well inaccessible	
			3/19/2015	23.55	69.35
			6/18/2015	21.84	71.06
			9/17/2015	20.18	72.72
			12/3/2015	21.10	71.80
			3/31/2016	24.81	68.09
			6/20/2016	21.66	71.24
			9/6/2016	19.18	73.72
			11/29/2016	20.39	72.51
			3/9/2017	23.35	69.55
			6/15/2017	22.03	70.87
			9/27/2017	Well inaccessible	
			12/5/2017	20.89	72.01
			3/15/2018	24.28	68.62
			6/27/2018	22.42	70.48
			9/6/2018	21.16	71.74
			12/20/2018	21.60	71.30
			3/6/2019	24.13	68.77
			6/12/2019	23.71	69.19
			9/5/2019	21.50	71.40
			12/10/2019	21.55	71.35
			3/16/2020	24.61	68.29
			6/10/2020	23.80	69.10
			8/27/2020	21.41	71.49
			11/5/2020	20.27	72.63
			2/5/2021	23.29	69.61
6/28/2021	22.96	69.94			
9/20/2021	21.60	71.30			
11/5/2021	20.85	72.05			
2/7/2022	23.76	69.14			
4/25/2022	25.70	67.20			
7/28/2022	23.04	69.86			
10/27/2022	Well Dry				
1/26/2023	24.14	68.76			



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Well Identification	Total Depth (feet)	Top of Casing Elevation (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-3	30.87	92.43	5/10/2023	25.92	66.98
			7/21/2023	23.42	69.48
			10/20/2023	21.78	71.12
			1/26/2024	24.29	68.61
			4/29/2024	26.43	66.47
			8/5/2024	23.24	69.66
			2/1/2025	24.57	68.33
			8/1/2025	23.19	69.71
MW-4	30.42	93.60	10/21/2008	18.06	75.54
			1/28/2009	24.55	69.05
			9/30/2009	17.89	75.71
			6/10/2010	21.02	72.58
			9/27/2010	18.93	74.67
			12/14/2010	21.04	72.56
			3/17/2011	24.58	69.02
			6/24/2011	21.80	71.80
			9/29/2011	17.94	75.66
			12/14/2011	20.28	73.32
			3/9/2012	23.70	69.90
			6/7/2012	22.19	71.41
			9/19/2012	18.60	75.00
			12/13/2012	20.96	72.64
			3/20/2013	24.38	69.22
			6/12/2013	21.81	71.79
			9/11/2013	18.89	74.71
			12/13/2013	21.28	72.32
			3/19/2014	24.88	68.72
			6/17/2014	21.21	72.39
			9/18/2014	19.16	74.44
			12/18/2014	21.41	72.19
			3/19/2015	24.80	68.80
			6/18/2015	23.09	70.51
			9/17/2015	21.37	72.23
			12/3/2015	22.29	71.31
			3/31/2016	26.05	67.55
			6/20/2016	22.95	70.65
			9/6/2016	20.40	73.20
			11/29/2016	21.59	72.01
3/9/2017	24.58	69.02			
6/15/2017	23.40	70.20			



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Well Identification	Total Depth (feet)	Top of Casing Elevation (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-4	30.42	93.17	9/27/2017	21.25	72.35
			12/5/2017	22.05	71.55
			3/15/2018	25.54	68.06
			6/27/2018	23.67	69.93
			9/6/2018	22.29	71.31
			12/20/2018	22.75	70.85
			3/6/2019	25.33	68.27
			6/12/2019	24.93	68.67
			9/5/2019	22.71	70.89
			12/9/2019	22.68	70.92
			3/16/2020	25.84	67.76
			6/10/2020	24.93	68.67
			8/27/2020	22.51	71.09
			11/5/2020	21.34	72.26
			2/5/2021	24.48	69.12
			6/28/2021	24.12	69.48
			9/20/2021	23.00	70.60
			11/4/2021	21.91	71.69
			2/7/2022	24.97	68.63
			4/25/2022	26.97	66.63
			7/28/2022	24.13	69.47
			10/27/2022	23.11	70.49
			1/26/2023	--	--
			5/10/2023	27.09	66.51
7/21/2023	24.46	69.14			
10/20/2023	22.83	70.77			
1/26/2024	25.49	68.11			
4/29/2024	--	--			
8/5/2024	24.39	69.21			
2/1/2025	25.76	67.84			
8/1/2025	24.06	69.54			
MW-5	29.68	93.82	9/17/2015	21.59	72.23
			12/3/2015	22.41	71.41
			3/31/2016	26.18	67.64
			6/20/2016	23.18	70.64
			9/6/2016	20.67	73.15
			11/29/2016	21.72	72.10
			3/9/2017	25.04	68.78
			6/15/2017	23.61	70.21
9/27/2017			Well inaccessible		



TABLE 1 GROUNDWATER ELEVATIONS Flora Vista #1 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Total Depth (feet)	Top of Casing Elevation (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-5	29.68	93.82	12/5/2017	21.96	71.86
			3/15/2018	25.55	68.27
			6/27/2018	23.93	69.89
			9/6/2018	22.54	71.28
			12/20/2018	22.84	70.98
			3/7/2019	25.39	68.43
			6/13/2019	24.75	69.07
			9/6/2019	22.78	71.04
			12/10/2019	22.84	70.98
			3/26/2020	26.17	67.65
			6/10/2020	25.25	68.57
			8/28/2020	22.87	70.95
			11/5/2020	21.21	72.61
			2/8/2021	24.62	69.20
			6/28/2021	24.24	69.58
			9/20/2021	23.00	70.82
			11/5/2021	22.15	71.67
			2/8/2022	25.06	68.76
			4/25/2022	27.00	66.82
			7/28/2022	24.57	69.25
			10/27/2022	Well Dry	
			1/26/2023	--	--
			5/10/2023	27.27	66.55
			7/21/2023	24.90	68.92
10/20/2023	23.14	70.68			
1/26/2024	25.53	68.29			
4/29/2024	26.13	67.69			
8/5/2024	24.75	69.07			
2/1/2025	25.72	68.10			
8/1/2025	24.61	69.21			

Notes:

(1): surface elevation based on an arbitrary datum of 100 feet set at the gas well head

bgs: below ground surface

BTOC: below top of casing

--: indicates no GWEL or PSH measured

TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Flora Vista #1 Hilcorp Energy Company San Juan County, New Mexico								
Well ID	Sample Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)	Volume (gallons)
MW-1	3/31/2016	No parameters or sample collected due to low well volume						
	6/20/2016	16.70	6.34	--	1,070	0.41	-132.7	0.25
	9/7/2016	15.55	6.30	0.027	3,700	9.16	-66.6	1.50
	3/9/2017	No parameters or sample collected due to low well volume						
	6/15/2017	No parameters or sample collected due to low well volume						
	12/5/2017	15.07	6.94	4.785	7,364	4.69	-183.5	0.50
	3/15/2018	No parameters or sample collected due to low well volume						
	6/27/2018	No parameters or sample collected due to low well volume						
	9/6/2018	16.08	7.10	--	7,138	2.51	-117.9	0.50
	3/6/2019	14.60	7.63	0.640	1,260	--	-40.8	0.25
	6/12/2019	No parameters or sample collected due to low well volume						
	9/6/2019	21.30	6.99	1.220	2,430	--	-4.0	1.25
	12/9/2019	--	6.25	1.110	2,230	0.60	-17.8	1.00
	3/16/2020	22.40	6.33	1.820	3,630	8.08	-14.1	--
	6/10/2020	No parameters or sample collected due to low well volume						
	8/28/2020	No parameters or sample collected due to low well volume						
	11/5/2020	14.70	6.65	1.880	3,750	4.80	-12.6	--
	2/8/2021	13.80	6.22	0.600	1,200	1.14	7.0	
	6/28/2021	No parameters taken due to equipment not functional						
	9/20/2021	No parameters or sample collected due to low well volume						
	11/5/2021	11.70	6.78	--	2,870	--	--	1.75
	2/7/2022	11.60	6.56	--	2,990	--	--	0.25
	4/25/2022	No parameters or sample collected due to low well volume						
	7/28/2022	No parameters or sample collected due to low well volume						
	10/27/2022	13.20	6.75	1.090	2,170	--	--	0.50
1/26/2023	No parameters or sample collected due to low well volume							
5/10/2023	No parameters or sample collected due to low well volume							
7/21/2023	No parameters or sample collected due to low well volume							
10/20/2023	No parameters or sample collected due to low well volume							
1/26/2024	No parameters or sample collected due to low well volume							
4/29/2024	No parameters or sample collected due to low well volume							
8/5/2024	No parameters or sample collected due to low well volume							
2/1/2025	No parameters or sample collected, unable to locate well							
MW-1R	8/1/2025	32.45	7.20	0.82	1266.00	8.28	-20.90	3.41
MW-2	3/31/2016	No parameters or sample collected due to low well volume						
	6/20/2016	17.00	6.40	--	870	2.32	-104.0	1.50
	9/7/2016	15.00	6.57	0.571	879	3.67	-19.9	4.00
	11/29/2016	14.78	7.21	--	909	4.51	-17.1	--
	3/9/2017	No parameters or sample collected due to low well volume						
	3/15/2018	15.24	7.06	--	977	0.93	56.3	2.00
	6/27/2018	No parameters or sample collected due to low well volume						
	9/6/2018	16.05	7.30	--	929	1.15	-0.80	3.50
	3/7/2019	19.40	6.96	0.510	1,020	--	-23.7	2.25
	6/13/2019	20.60	6.62	0.500	1,000	--	-10.2	2.00
	9/6/2019	21.00	6.77	0.520	1,030	--	-20.8	3.00
	12/10/2019	--	6.36	0.550	1,120	0.36	-23.3	3.00
	3/26/2020	16.40	6.18	0.530	1,060	8.47	-9.1	--
	6/10/2020	16.50	6.37	0.500	1,000	2.39	-15.1	--
	8/28/2020	14.70	6.67	0.500	1,010	2.21	-12.9	--
	11/5/2020	17.90	6.08	0.490	960	2.30	-7.0	--
	2/8/2021	15.70	6.06	0.520	1,040	0.58	-5.9	
	6/28/2021	No parameters taken due to equipment not functional						
	9/20/2021	17.40	6.90	--	2,960	--	--	3.18
	11/5/2021	18.80	5.94	--	1,000	--	--	3.50

TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Flora Vista #1 Hilcorp Energy Company San Juan County, New Mexico									
Well ID	Sample Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)	Volume (gallons)	
MW-2	2/8/2022	14.10	6.38	--	970	--	--	2.25	
	4/25/2022	16.60	6.21	0.460	930	--	--	1.27	
	7/28/2022	20.40	6.61	0.450	900	--	--	2.25	
	10/27/2022	No parameters or sample collected due to low well volume							
	1/26/2023	11.10	6.67	0.460	920	--	--	2.00	
	5/10/2023	17.80	6.53	0.450	900	--	--	1.00	
	7/21/2023	34.77	7.28	0.750	1,152	2.28	-175.90	1.00	
	10/20/2023	26.18	7.49	0.760	1,175.6	2.47	-89.20	1.25	
	1/26/2024	17.74	7.85	0.620	948.6	3.01	-50.60	0.75	
	4/29/2024	25.71	7.64	0.600	917.9	3.42	-61.20	0.00	
	8/5/2024	32.71	7.65	0.590	912.5	0.94	-104.60	2.25	
2/1/2025	14.18	8.30	0.000	0.07	2.58	56.7	2.00		
8/1/2025	25.92	6.99	0.010	15.40	2.70	321.7	2.25		
MW-3	3/31/2016	14.68	7.13	0.510	800	4.66	-13.0	2.50	
	6/20/2016	14.90	7.05	--	750	2.02	83.2	4.00	
	9/7/2016	14.19	6.02	0.467	719	5.55	12.5	5.00	
	11/29/2016	13.68	7.41	--	725	5.03	-11.4	--	
	3/9/2017	14.44	7.06	0.675	1,038	1.38	-199.9	--	
	6/15/2017	13.90	7.67	0.470	723	4.06	-79.1	1.00	
	12/5/2017	12.80	7.10	0.513	788	2.09	-135.4	4.00	
	3/15/2018	14.54	7.22	--	702	2.71	59.2	2.50	
	6/27/2018	15.30	7.12	--	680	2.58	-16.8	3.75	
	9/6/2018	14.81	7.49	--	639	4.77	-20.0	4.00	
	3/6/2019	--	7.30	0.380	770	--	-21.6	2.5	
	6/12/2019	19.40	6.91	0.360	740	--	-57.0	2.00	
	9/5/2019	20.00	7.15	0.360	720	--	-29.4	3.25	
	12/10/2019	--	6.36	0.390	780	1.36	-1.9	3.00	
	3/16/2020	19.60	6.44	0.380	780	8.65	-25.2	--	
	6/10/2020	17.60	6.2	0.380	760	2.77	-22.8	--	
	8/27/2020	24.10	6.43	0.590	1,180	1.46	-10.7	--	
	11/5/2020	14.40	6.43	0.400	800	4.45	-14.3	--	
	2/5/2021	23.29	6.42	0.350	700	1.79	-25.8		
	6/28/2021	No parameters taken due to equipment not functional							
	9/20/2021	17.80	6.86	--	1,923	--	--	3.96	
	11/5/2021	15.10	6.1	--	690	--	--	4.25	
	2/7/2022	12.80	6.67	--	660	--	--	2.50	
	4/25/2022	16.00	6.52	0.360	730	--	--	2.00	
	7/28/2022	19.30	6.82	0.340	670	--	--	3.00	
	10/27/2022	No parameters or sample collected due to low well volume							
	1/26/2023	8.00	6.92	0.390	700	--	--	2.50	
5/10/2023	18.30	6.72	0.350	700	--	--	1.00		
7/21/2023	33.67	7.48	0.660	1,019	0.96	-100.9	3.00		
10/20/2023	19.92	7.53	0.690	1,068.8	1.19	-82.7	3.75		
1/26/2024	10.36	7.74	0.570	874.2	1.35	-176.1	2.50		
4/29/2024	24.32	7.73	0.420	646.1	0.62	-67.1	0.25		
8/5/2024	30.37	8.04	0.390	601.3	30.37	-141.2	3.00		
2/1/2025	12.31	8.32	0.000	0.07	1.76	2.3	2.25		
8/1/2025	27.64	7.20	0.654	1,007	3.887	-56.1	2.94		
MW-4	3/31/2016	15.60	6.98	0.700	1,030	5.73	-47.0	2.25	
	6/20/2016	15.20	6.79	--	1,040	1.06	-60.8	3.50	
	9/7/2016	14.55	6.40	0.655	1,008	2.48	-59.8	4.50	
	11/29/2016	13.58	7.16	--	903	3.04	-80.9	--	
	3/9/2017	14.45	6.96	0.753	1,159	1.69	-133.5	--	
	6/15/2017	13.63	7.00	1.769	2,721	5.00	-114.3	3.50	

TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Flora Vista #1 Hilcorp Energy Company San Juan County, New Mexico									
Well ID	Sample Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)	Volume (gallons)	
MW-4	12/5/2017	13.88	6.84	1.721	2,647	1.13	-135.7	4.00	
	3/15/2018	15.04	7.04	--	1,180	--	-100.2	2.25	
	6/27/2018	15.21	6.80	--	1,315	0.55	-79.0	3.00	
	9/6/2018	15.15	7.11	--	1,394	1.05	-73.1	4.00	
	3/6/2019	15.90	7.21	0.620	1,260	--	-7.5	2.50	
	6/12/2019	19.80	6.66	0.710	1,410	--	6.9	2.50	
	9/5/2019	18.10	7.04	0.530	1,070	--	2.7	3.50	
	12/9/2019	--	6.10	0.770	1,550	0.00	3.8	3.00	
	3/16/2020	13.90	6.48	0.660	1,310	6.03	7.2	--	
	6/9/2020	16.70	6.33	0.550	1,060	1.85	16.1	--	
	8/27/2020	22.00	6.47	0.510	1,050	1.45	14.6	--	
	11/5/2020	14.10	6.09	0.500	1,000	1.76	18.9	--	
	2/5/2021	10.70	6.50	0.550	1,100	1.57	12.7	--	
	6/28/2021	No parameters taken due to equipment not functional							
	9/20/2021	17.10	6.73	--	2,370	--	--	3.60	
	11/4/2021	15.30	6.01	--	1,080	--	--	4.00	
	2/7/2022	11.70	6.43	--	1,020	--	--	2.50	
	4/25/2022	16.30	6.16	0.490	1,000	--	--	1.50	
	7/28/2022	18.50	6.54	0.360	730	--	--	3.00	
	10/27/2022	11.30	6.61	0.400	810	--	--	3.50	
	1/26/2023	No parameters taken due to inaccessible well							
	5/10/2023	No parameters taken due to inaccessible well							
	7/21/2023	31.77	7.09	0.560	858	1.41	-66	0.00	
10/20/2023	15.56	7.29	0.600	921.46	2.14	-79.5	1.25		
1/26/2024	No parameters taken due to insufficient volume to sample								
4/29/2024	No parameters taken due to insufficient volume to sample								
2/1/2025	No parameters or sample collected due to low well volume								
8/1/2025	29.82	6.945.00	0.58	892.40	3.30	-37.60	0.93		
MW-5	3/31/2016	16.16	7.13	0.600	980	4.74	-97.0	1.75	
	6/20/2016	15.90	6.88	--	1,030	0.68	-99.7	3.25	
	9/7/2016	14.96	6.34	0.599	918	1.51	-130.2	4.50	
	3/9/2017	15.29	7.35	0.793	1,255	8.83	-124.9	--	
	6/15/2017	14.56	7.06	3.143	4,842	2.19	-132.6	2.00	
	12/5/2017	15.11	6.76	0.706	1,086	0.52	-160.5	2.25	
	3/15/2018	14.70	6.75	--	2,400	0.39	-9.2	0.50	
	6/27/2018	No parameters or sample collected due to low well volume							
	9/6/2018	16.47	7.17	--	1,460	1.65	-125.0	1.00	
	3/7/2019	19.60	6.92	0.480	940	--	0.3	0.75	
	6/13/2019	19.50	6.58	1.460	2,930	--	0.3	1.00	
	9/6/2019	26.00	6.50	1.000	2,000	--	17.5	2.00	
	12/10/2019	--	6.53	0.240	490	0.47	-3.4	2.00	
	3/26/2020	16.10	6.01	0.400	780	9.37	33.1	--	
	6/10/2020	14.50	5.99	1.400	2,810	1.69	26.3	--	
	8/28/2020	19.10	6.19	1.610	3,190	1.15	12.2	--	
	11/5/2020	18.10	6.14	0.880	1,780	3.65	11.4	--	
	2/8/2021	15.00	6.04	0.210	430	1.14	33.3	--	
	6/28/2021	No parameters taken due to equipment not functional							
	9/20/2021	18.80	6.93	--	4,001	--	--	2.77	
	11/5/2021	17.10	5.91	--	840	--	--	2.25	
	2/8/2022	12.90	6.09	--	670	--	--	0.25	
	4/25/2022	No parameters or sample collected due to low well volume							
7/28/2022	19.70	6.32	1.230	2,450	--	--	1.00		
10/27/2022	No parameters or sample collected due to low well volume								
1/26/2023	No parameters taken due to inaccessible well								

TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Flora Vista #1 Hilcorp Energy Company San Juan County, New Mexico								
Well ID	Sample Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)	Volume (gallons)
MW-5	5/10/2023	No parameters or sample collected due to low well volume						
	7/21/2023	34.44	7.30	2.400	3,695	0.30	-268.60	0.50
	10/20/2023	21.45	7.40	0.950	1,454.8	0.40	-94.50	2.50
	1/26/2024	11.57	7.45	0.270	413.5	4.39	-69.30	1.00
	4/29/2024	No parameters or sample collected						
	8/5/2024	30.45	7.53	0.850	1,300.8	0.66	-217.30	0.50
	2/1/2025	No parameters or sample collected due to low well volume						
8/1/2025	30.92	6.70	1.86	2863	0.18	-90.30	1.41	

Notes:

- °C: degrees Celcius
- DO: dissolved oxygen
- g/L: grams per liter
- uS/cm: microsiemens per centimeter
- mg/L: milligrams per liter
- mV: millivolts
- ORP: oxidation-reduction potential
- TDS: total dissolved solids
- : data not collected



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 Flora Vista #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Well ID	Sample Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standards			0.005	1.00	0.70	0.62	1.0	0.20
MW-1	6/20/2003	(orig)	1.7	0.3	0.49	5.09	--	--
	9/23/2003	(orig)	7.5	0.02	0.66	9.22	--	--
	12/16/2003	(orig)	7.93	0.01	1.18	0.864	--	--
	3/16/2004	(orig)	6.86	ND	1.16	8.47	--	--
	6/21/2004	(orig)	4.14	ND	0.43	3.12	--	--
	9/30/2004	(orig)	9.08	0.03	1.41	9.98	--	--
	12/13/2004	(orig)	8.52	ND	1.34	9.39	--	--
	3/22/2005	(orig)	4.55	ND	0.85	5.95	--	--
	6/22/2005	(orig)	--	0.02188	--	--	--	--
	10/24/2005	(orig)	6.39	ND	1.01	7.42	--	--
	12/13/2005	(orig)	6.17	ND	1.01	7.57	--	--
	3/22/2006	(orig)	3.58	ND	0.77	5.84	--	--
	6/22/2006	(orig)	3.1	ND	0.5	3.5	--	--
	10/20/2006	(orig)	6.6	0.01	1.22	8.91	--	--
	12/13/2006	(orig)	4.23	0.01	1.09	8.13	--	--
	3/27/2007	(orig)	2.37	0.007	0.504	3.75	--	--
	6/25/2007	(orig)	2.87	0.14	0.51	3.89	--	--
	11/9/2007	(orig)	5.6	< 0.0007	0.91	6.8	--	--
	1/15/2008	(orig)	4.2	< 0.0007	0.89	5.7	--	--
	3/19/2008	(orig)	2.7	< 0.005	0.59	4.7	--	--
	7/23/2008	(orig)	2	< 0.005	0.38	1.4	--	--
	10/21/2008	(orig)	4.5	< 0.005	0.63	5.3	--	--
	1/28/2009	(orig)	4	< 0.005	0.88	8.7	--	--
	9/30/2009	(orig)	4.2	0.0016	0.53	5.1	2.08	1.09
	6/10/2010	(orig)	1.7	0.0012	0.33	0.99	0.126	1.28
	9/27/2010	(orig)	3.2	0.002	0.53	4.20	7.73	1.19
	12/14/2010	(orig)	3.2	0.0012	0.62	5.30	4.13	0.888
	3/17/2011	(orig)	1.7	0.0037	0.48	4.31	1.11	1.07
	6/24/2011	(orig)	2.1	0.0025	0.494	2.03	< 0.1	0.894
	6/24/2011	(Duplicate)	1.97	0.0026	0.458	1.94	--	--
	9/29/2011	(orig)	2.44	< 0.005	0.519	3.65	25.2	1.02
	12/14/2011	(orig)	2.31	0.0055	0.508	3.93	25.4	0.945
	3/9/2012	(orig)	1.59	< 0.001	0.636	5.04	25.3	1.03
	6/7/2012	(orig)	1.77	0.127	0.182	0.633	21.4	0.914
	9/19/2012	(orig)	1.52	< 0.020	0.414	2.49	19	0.86
	12/13/2012	(orig)	2.02	< 0.025	0.809	5.02	23.8	0.75
	3/20/2013	(orig)	0.182	< 0.002	0.0406	0.0914	9.39	1.08
	6/12/2013	(orig)	0.698	< 0.001	0.160	0.873	12.8	1.12
	9/11/2013	(orig)	1.05	< 0.020	0.831	5.1	18.0	1.05
	12/13/2013	(orig)	0.591	0.0015	0.670	1.79	25.4	0.88
	3/19/2014	(orig)	0.0822	< 0.001	0.039	0.271	--	--
	6/17/2014	(orig)	0.522	< 0.001	0.189	0.398	17.4	0.896
9/18/2014	(orig)	0.849	< 0.001	0.299	1.23	23.4	1.01	
12/18/2014	Well was obstructed and inaccessible due to TRC operations							
3/19/2015	No parameters or sample collected due to low well volume							
6/18/2015	(orig)	0.213	< 0.001	0.116	0.691	5.72	0.542	
6/18/2015	(Duplicate)	0.17	< 0.001	0.0684	0.533	--	--	
9/17/2015	(orig)	0.0673	< 0.001	0.0859	0.362	4.22	0.614	
12/3/2015	(orig)	0.0908	< 0.001	0.0612	0.138	2.69	0.63	
3/31/2016	No parameters or sample collected due to low well volume							
6/20/2016	(orig)	0.834	< 0.025	0.533	2.06	40.8	2.17	
9/7/2016	(orig)	0.525	< 0.020	0.416	1.62	17.6	1.51	
10/25/2016	ISCO Injection-15% PersulfOx solution							
3/9/2017	No parameters or sample collected due to low well volume							
6/15/2017	(orig)	0.0371	<1.0	0.0404	0.157	--	--	
9/27/2017	(orig)	0.0231	<1.0	0.0306	0.118	24.2	3.13	
12/5/2017	(orig)	0.288	<1.0	0.444	1.07	19.9	3.27	
3/15/2018	No parameters or sample collected due to low well volume							
6/27/2018	No parameters or sample collected due to low well volume							
9/6/2018	(orig)	0.0313	<1.0	0.1730	0.365	11.70	5.83	
12/20/2018	(orig)	0.0827	<0.001	0.1560	0.468	0.4870	0.0241	
3/6/2019	(orig)	0.0093	<0.005	0.0088	0.0355	0.4970	0.4940	



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 Flora Vista #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Well ID	Sample Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standards			0.005	1.00	0.70	0.62	1.0	0.20
MW-1	6/13/2019		No parameters or sample collected due to low well volume					
	9/6/2019	(orig)	0.0174	0.0014	0.0124	0.119	1.38	2.75
	12/9/2019	(orig)	0.0195	<0.001	<0.001	0.0567	4.54	1.38
	3/16/2020	(orig)	0.0196	<0.001	0.0174	0.106	--	--
	6/10/2020		No parameters or sample collected due to low well volume					
	8/28/2020		No parameters or sample collected due to low well volume					
	11/5/2020	(orig)	0.0426	<0.001	0.0505	0.345	<0.10	--
	2/8/2021	(orig)	0.0033	<0.001	0.0025	0.022	12.90	1.65
	6/28/2021	(orig)	0.0350	<0.005	0.0540	0.200	2.00	1.80
	9/20/2021		No parameters or sample collected due to low well volume					
	11/5/2021	(orig)	0.0160	0.0230	0.0260	0.130	1.20	2.20
	2/7/2022	(orig)	0.0160	<0.005	<0.005	0.046	--	--
	4/25/2022		No parameters or sample collected due to low well volume					
	7/28/2022		No parameters or sample collected due to low well volume					
	10/27/2022	(orig)	0.0260	<0.005	0.035	0.17	0.62	1.8
	1/26/2023		No parameters or sample collected due to low well volume					
	5/10/2023		No parameters or sample collected due to low well volume					
	7/21/2023		No parameters or sample collected due to low well volume					
	1/26/2024		No parameters or sample, well could not be located					
	4/29/2024		No parameters or sample, well could not be located					
8/5/2024		No parameters or sample, well could not be located						
2/1/2025		No parameters or sample, well could not be located						
MW-1R	8/1/2025	(orig)	0.002	<0.001	0.036	0.0071	0.063	4.5
MW-2	10/21/2008	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--
	1/28/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND	ND
	9/30/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0223	< 0.005
	6/11/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02	< 0.005
	9/27/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02	< 0.005
	6/24/2011	(orig)	< 0.0010	< 0.0010	< 0.0010	< 0.0030	0.191	< 0.015
	9/29/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	< 0.005
	12/14/2011	(orig)	0.00031 J	< 0.001	0.0002 J	0.0022 J	0.0133 J	0.0022 J
	3/9/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	< 0.005
	6/7/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.0822	0.0052
	9/19/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	< 0.005
	12/13/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	< 0.005
	3/20/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	< 0.005
	6/12/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.0665	< 0.005
	9/11/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	< 0.005
	12/13/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	< 0.005
	3/19/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	0.024
	6/17/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	< 0.005
	9/18/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.0656	< 0.005
	12/18/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.709	0.006
	3/19/2015	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.883	0.043
	6/18/2015	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	< 0.005
	9/17/2015	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	< 0.005
	12/3/2015	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	< 0.005
	3/31/2016	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.0585	< 0.005
	6/20/2016	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	< 0.005
	9/7/2016	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.0512	< 0.005
	11/29/2016	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.050	< 0.005
	9/27/2017	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50	0.013
	3/15/2018	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50	0.011
	6/27/2018	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.0512	0.017
	9/6/2018	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	0.104	0.270
	12/20/2018	(orig)	< 0.001	< 0.003	< 0.002	< 0.004	< 0.10	< 0.01
	3/7/2019	(orig)	--	--	--	--	--	< 0.01
	6/13/2019	(orig)	--	--	--	--	< 0.10	0.013
9/6/2019	(orig)	--	--	--	--	--	0.085	
12/10/2019	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.10	< 0.01	
3/26/2020	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	< 0.10	< 0.01	
6/10/2020	(orig)	< 0.001	< 0.001	< 0.003	< 0.003	< 0.10	--	



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 Flora Vista #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Well ID	Sample Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)	
NMWQCC Standards			0.005	1.00	0.70	0.62	1.0	0.20	
MW-2	8/28/2020	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	--	
	11/5/2020	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	--	
	2/8/2021	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	<0.01	
	6/28/2021	(orig)	<0.001	<0.001	<0.001	<0.0015	0.75	0.51	
	9/20/2021	(orig)	<0.001	<0.001	<0.001	<0.002	0.88	0.72	
	11/5/2021	(orig)	<0.001	<0.001	<0.001	<0.0015	0.06	0.080	
	2/7/2022	(orig)	<0.001	<0.001	<0.001	<0.0015	<0.020	0.046	
	4/25/2022	(orig)	<0.001	<0.001	<0.001	<0.0015	<0.020	0.030	
	7/28/2022	(orig)	<0.001	<0.001	<0.001	<0.0015	<0.020	<0.0020	
	10/27/2022	(orig)	<0.001	<0.001	<0.001	<0.0015	<0.020	0.026	
	1/26/2023	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	0.067	0.0084	
	5/10/2023	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	<0.020	<0.0020	
	7/21/2023	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	<0.020	0.0023	
	10/20/2023	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	<0.020	0.71	
	1/26/2024	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	<0.020	0.0049	
	4/29/2024	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	<0.020	0.007	
8/5/2024	(orig)	--	--	--	--	--	2.000		
2/1/2025	(orig)	--	--	--	--	--	0.010		
8/1/2025	(orig)	--	--	--	--	--	0.160		
MW-3	10/21/2008	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	
	1/28/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND	ND	
	9/30/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0543	< 0.005	
	6/10/2010	(orig)	< 0.0005	< 0.001	< 0.001	< 0.001	0.0425	< 0.005	
	9/27/2010	(orig)	<0.001	<0.001	<0.001	< 0.001	< 0.02	< 0.005	
	12/14/2010	(orig)	<0.001	<0.001	<0.001	< 0.001	< 0.02	< 0.005	
	3/17/2011	(orig)	<0.001	<0.001	<0.001	< 0.001	< 0.02	< 0.005	
	6/24/2011	(orig)	<0.001	<0.001	<0.001	< 0.0030	0.189	< 0.015	
	9/29/2011	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.05	0.0063	
	12/14/2011	(orig)	<0.001	<0.001	<0.001	< 0.003	0.0288 J	0.0207	
	6/7/2012	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.05	< 0.005	
	9/19/2012	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.05	< 0.005	
	12/13/2012	(orig)	<0.001	<0.001	<0.001	< 0.003	0.0605	0.026	
	3/20/2013	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.05	0.0149	
	6/12/2013	(orig)	<0.001	<0.001	<0.001	< 0.003	0.189	0.0094	
	9/11/2013	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	12/13/2013	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	0.013	
	3/19/2014	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	6/17/2014	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	9/18/2014	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	12/18/2014	Wellhead inaccessible due to standing water.							
	3/19/2015	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	6/18/2015	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	9/17/2015	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	12/3/2015	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	0.0258	
	3/31/2016	(orig)	<0.001	<0.001	<0.001	< 0.003	0.138	0.368	
	6/20/2016	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	0.0078	
	9/7/2016	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	11/29/2016	(orig)	<0.001	<0.001	<0.001	< 0.003	0.103	0.197	
	3/9/2017	(orig)	--	--	--	--	0.878	0.904	
	6/15/2017	(orig)	--	--	--	--	< 0.050	< 0.005	
	12/5/2017	(orig)	--	--	--	--	< 0.050	0.106	
	3/15/2018	(orig)	<0.001	<0.001	<0.001	< 0.003	0.0642	< 0.005	
	6/27/2018	(orig)	<0.001	<0.001	<0.001	< 0.003	< 0.050	< 0.005	
	9/6/2018	(orig)	<0.001	<0.001	<0.001	< 0.003	0.85	0.249	
	12/20/2018	(orig)	<0.001	< 0.003	< 0.002	< 0.004	<0.10	0.0153	
3/6/2019	(orig)	--	--	--	--	--	0.0412		
6/13/2019	(orig)	--	--	--	--	<0.10	<0.010		
9/6/2019	(orig)	--	--	--	--	--	0.0127		
12/10/2019	(orig)	<0.001	<0.001	<0.001	<0.003	0.707	0.682		
3/16/2020	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	<0.010		
6/9/2020	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	<0.010		



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 Flora Vista #1
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 San Juan County, New Mexico

Well ID	Sample Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)	
NMWQCC Standards			0.005	1.00	0.70	0.62	1.0	0.20	
MW-3	8/27/2020	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	<0.010	
	11/5/2020	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	<0.010	
	2/5/2021	(orig)	<0.001	<0.001	<0.001	< 0.003	<0.10	< 0.010	
	6/28/2021	(orig)	<0.001	<0.001	<0.001	< 0.0015	< 0.020	0.006	
	9/20/2021	(orig)	<0.001	<0.001	<0.001	< 0.002	7.1*	0.12	
	11/5/2021	(orig)	<0.001	<0.001	<0.001	< 0.0015	0.077	0.13	
	2/7/2022	(orig)	<0.001	<0.001	<0.001	< 0.0015	< 0.020	0.098	
	4/25/2022	(orig)	<0.001	<0.001	<0.001	< 0.0015	< 0.020	0.018	
	7/28/2022	(orig)	<0.001	<0.001	<0.001	<0.0015	0.021	0.10	
	10/27/2022	No parameters or sample collected due to low well volume.							
	1/26/2023	(orig)	<0.0020	<0.0020	<0.0020	<0.0030	0.57	0.54	
	5/10/2023	(orig)	<0.0020	<0.0020	<0.0020	<0.0030	0.13	0.43	
	7/21/2023	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	0.13	0.77	
	10/20/2023	(orig)	<0.0010	0.019	<0.0010	<0.0015	0.071	0.75	
	1/26/2024	(orig)	<0.0020	<0.0020	<0.0020	<0.0030	0.53	0.55	
	4/29/2024	(orig)	<0.0020	<0.0020	<0.0020	<0.0030	0.59	0.67	
	8/5/2024	(orig)	<0.0020	<0.0020	<0.0020	<0.0030	<0.10	0.32	
2/1/2025	(orig)	<0.0020	<0.0020	<0.0020	<0.0030	0.76	0.45		
8/1/2025	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	1.5	0.57		
MW-4	10/21/2008	(orig)	0.039	< 0.0005	0.031	0.18	--	--	
	1/28/2009	(orig)	0.66	< 0.0005	0.064	0.583	ND	ND	
	9/30/2009	(orig)	0.34	< 0.0005	0.054	0.572	0.148	4.48	
	6/10/2010	(orig)	0.14	< 0.001	0.027	0.252	0.0566	4.65	
	9/27/2010	(orig)	0.033	< 0.001	0.041	0.274	1.22	4.34	
	12/14/2010	(orig)	0.13	< 0.001	0.093	0.899	1.75	4.69	
	3/17/2011	(orig)	0.017	< 0.001	0.018	0.1966	0.0852	4.46	
	6/24/2011	(orig)	0.0296	< 0.0010	0.0371	0.472	1.5	4.9	
	9/29/2011	(orig)	0.0392	< 0.001	0.0039	0.0536	2.55	4.1	
	9/29/2011	(Duplicate)	0.043	< 0.001	0.0035	0.0483	--	--	
	12/14/2011	(orig)	0.101	< 0.001	0.0443	0.378	2.62	4.58	
	12/14/2011	(Duplicate)	0.104	< 0.005	0.0437	0.372	--	--	
	3/9/2012	(orig)	0.0264	< 0.001	0.0066	0.0651	2.46	4.73	
	3/9/2012	(Duplicate)	0.0234	< 0.001	0.0056	0.058	--	--	
	6/7/2012	(orig)	0.044	< 0.001	0.0245	0.303	2.07	4.02	
	6/7/2012	(Duplicate)	0.026	< 0.001	0.0124	0.155	--	--	
	9/19/2012	(orig)	0.0029	< 0.001	0.0048	0.0576	1.93	4.5	
	9/19/2012	(Duplicate)	0.0028	< 0.001	0.0045	0.0551	--	--	
	12/13/2012	(orig)	0.0941	< 0.002	0.0399	0.385	2.92	4.9	
	12/13/2012	(Duplicate)	0.197	< 0.001	0.0712	0.55	--	--	
	3/20/2013	(orig)	0.0035	< 0.001	0.002	0.0211	1.82	4.37	
	3/20/2013	(Duplicate)	0.0034	< 0.001	0.0022	0.0212	--	--	
	6/12/2013	(orig)	0.0588	< 0.005	0.0509	0.545	1.53	4.29	
	6/12/2013	(Duplicate)	0.0215	< 0.001	0.0213	0.218	--	--	
	9/11/2013	(orig)	0.0166	< 0.001	0.0231	0.226	3.1	4.35	
	9/11/2013	(Duplicate)	0.0156	< 0.001	0.0162	0.158	--	--	
	12/13/2013	(orig)	0.0362	< 0.001	0.0199	0.169	2.7	4.8	
	12/13/2013	(Duplicate)	0.0357	< 0.001	0.0185	0.16	--	--	
	3/19/2014	(orig)	< 0.001	< 0.001	< 0.001	0.0046	1.33	4.19	
	3/19/2014	(Duplicate)	< 0.001	< 0.001	< 0.001	0.0049	--	--	
	6/17/2014	(orig)	0.0069	< 0.001	< 0.001	< 0.003	2.68	4.01	
	6/17/2014	(Duplicate)	0.0063	< 0.001	< 0.001	< 0.003	--	--	
	9/18/2014	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	3.43	4.63	
	9/18/2014	(Duplicate)	0.0018	< 0.001	< 0.001	< 0.003	--	--	
	12/18/2014	(orig)	0.0398	< 0.001	0.0062	0.0486	4.02	4.46	
	12/18/2014	(Duplicate)	0.0296	< 0.001	0.0048	0.0354	--	--	
3/19/2015	(orig)	0.0012	< 0.001	< 0.001	< 0.003	1.57	4.02		
3/19/2015	(Duplicate)	0.0011	< 0.001	< 0.001	< 0.003	--	--		
6/18/2015	(orig)	0.067	< 0.001	0.0102	0.0563	3.02	4.35		
9/17/2015	(orig)	0.0319	< 0.001	0.0297	0.178	3.03	3.75		
11/29/2015	(Duplicate)	0.0318	< 0.001	0.027	0.162	--	--		
12/3/2015	(orig)	0.0676	< 0.01	0.0526	0.354	4.34	4.12		
12/3/2015	(Duplicate)	0.0489	< 0.01	0.0396	0.263	--	--		



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 Flora Vista #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Well ID	Sample Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)	
NMWQCC Standards			0.005	1.00	0.70	0.62	1.0	0.20	
MW-4	3/31/2016	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	1.44	3.9	
	6/20/2016	(orig)	0.0428	<0.001	0.0112	0.0397	4.88	3.87	
	9/7/2016	(orig)	0.0081	< 0.001	< 0.001	< 0.003	4.01	3.84	
	11/29/2016	(orig)	0.0346	< 0.001	0.0077	0.0237	4.31	3.88	
	3/9/2017	(orig)	<0.001	<0.001	<0.001	<0.003	<0.050	3.06	
	6/15/2017	(orig)	0.0224	<0.001	0.0045	0.0206	15.5	11.1	
	9/27/2017	(orig)	0.0131	<0.001	0.0043	0.0108	22.7	7.68	
	12/5/2017	(orig)	0.0247	<0.001	0.0074	0.0161	21.1	6.2	
	3/15/2018	(orig)	<0.001	<0.001	<0.001	<0.003	5.68	1.64	
	6/27/2018	(orig)	0.0114	<0.001	0.0014	0.0031	<0.050	3.83	
	9/6/2018	(orig)	0.0179	<0.001	0.0047	0.0068	10.5	4.58	
	12/20/2018	(orig)	0.0253	<0.001	0.0132	0.0236	0.146	4.82	
	3/6/2019	(orig)	0.00147	<0.001	<0.001	<0.003	<0.10	2.29	
	6/12/2019	(orig)	0.0048	<0.001	<0.001	<0.003	<0.10	3.55	
	9/6/2019	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	3.11	
	12/9/2019	(orig)	0.0318	<0.001	0.0121	0.012	0.169	4.43	
	3/16/2020	(orig)	<0.001	<0.001	<0.001	<0.003	0.222	2.39	
	6/9/2020	(orig)	0.00155	<0.001	<0.001	<0.003	<0.10	--	
	8/27/2020	(orig)	0.00311	<0.001	0.00125	<0.003	<0.10	--	
	11/5/2020	(orig)	0.00181	<0.001	--	<0.003	<0.10	--	
	2/5/2021	(orig)	<0.001	<0.001	<0.001	<0.003	<0.10	3.26	
	6/28/2021	(orig)	< 0.001	< 0.001	< 0.001	< 0.0015	6.2	2.9	
	9/20/2021	(orig)	< 0.001	< 0.001	< 0.001	< 0.002	5.2	3.3	
	11/4/2021	(orig)	0.0012	< 0.001	< 0.001	< 0.0015	0.22	4.2	
	2/7/2022	(orig)	0.0016	< 0.001	< 0.001	< 0.0015	1.6	3.4	
	4/25/2022	(orig)	0.0016	< 0.001	< 0.001	< 0.0015	1.6	4.0	
	7/28/2022	(orig)	< 0.001	< 0.001	< 0.001	< 0.0015	2.7	3.1	
	10/27/2022	(orig)	< 0.001	< 0.001	< 0.001	< 0.0015	4.0	2.9	
	1/26/2023	No parameters or sample collected due to inaccessible well							
	5/10/2023	No parameters or sample collected due to inaccessible well							
	7/21/2023	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	0.93	2.8	
	10/20/2023	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	<0.020	2.8	
1/26/2024	No parameters or sample due to insufficient well volume								
4/29/2024	No parameters or sample due to insufficient well volume								
8/5/2024	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	0.52	2.7		
2/1/2025	No parameters or sample due to insufficient well volume								
8/1/2025	(orig)	<0.0010	<0.0010	<0.0010	<0.0015	0.33	2.8		
MW-5	9/17/2015	(orig)	0.0182	< 0.001	0.571	4.95	2.72	2.94	
	12/3/2015	(orig)	0.128	< 0.001	1.15	12.4	20.9	0.366	
	3/31/2016	(orig)	< 0.010	< 0.01	0.101	0.936	2.06	2.18	
	3/31/2016	(Duplicate)	< 0.010	< 0.01	0.136	1.26	--	--	
	6/20/2016	(orig)	0.0404	< 0.025	0.16	2.48	6.48	2.68	
	9/7/2016	(orig)	0.0229	< 0.01	0.332	3.45	4.6	2.07	
	9/7/2016	(Duplicate)	0.0216	< 0.010	0.393	4.46	--	--	
	10/26/2016	ISCO Injection-15% PersulfOx solution							
	3/9/2017	(orig)	0.0865	<0.010	0.267	3.65	24.6	11.8	
	6/15/2017	(orig)	0.0369	<0.010	0.0956	0.533	7.43	6.26	
	12/5/2017	(orig)	0.0562	<0.010	0.51	5.95	10.3	3.89	
	12/5/2017	(Duplicate)	0.05	<0.010	0.444	5.97	--	--	
	3/15/2018	(orig)	< 0.020	< 0.020	0.388	1.46	--	--	
	6/27/2018	(orig)	0.0371	< 0.020	0.123	2.13	7.08	3.97	
	9/6/2018	(orig)	0.0511	<0.010	0.233	1.94	4.9	2.31	
	12/20/2018	(orig)	0.0568	0.00136	0.448	4.48	0.748	3.79	
	3/7/2019	(orig)	0.0124	<.002	0.003	0.146	3.61	1.42	
	6/13/2019	(orig)	0.009	<0.001	0.054	0.376	<0.10	3.00	
	9/6/2019	(orig)	0.032	<.001	<.001	1.67	8.29	3.43	
	12/10/2019	(orig)	0.0024	<0.001	0.0414	0.236	0.829	0.795	
	3/26/2020	(orig)	0.0171	<0.001	0.0133	0.579	9.16	0.67	
	6/10/2020	(orig)	0.00505	<0.005	<0.005	0.296	15.5	--	
8/28/2020	(orig)	0.0196	<0.005	0.0389	0.91	10.5	--		
11/5/2020	(orig)	0.0141	0.00208	0.0987	1.1	3.49	--		
2/8/2021	(orig)	0.00946	<0.001	0.0314	0.316	2.08	0.509		



TABLE 3 GROUNDWATER ANALYTICAL RESULTS Flora Vista #1 Hilcorp Energy Company San Juan County, New Mexico										
Well ID	Sample Date	Sample Type	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)		
NMWQCC Standards			0.005	1.00	0.70	0.62	1.0	0.20		
MW-5	6/28/2021	(orig)	0.013	< 0.001	0.065	0.93	30	2.9		
	9/20/2021	(orig)	0.0090	0.0053	0.033	0.43	21	8.0		
	11/5/2021	(orig)	0.0092	0.041	0.076	0.91	4.1	1.9		
	2/8/2022	(orig)	0.0063	0.0087	0.047	0.62	3.2	1.6		
	4/25/2022	No parameters or sample collected due to low well volume								
	7/28/2022	(orig)	0.0036	< 0.001	0.0067	0.172	22	5.2		
	10/27/2022	No parameters or sample collected due to low well volume								
	1/26/2023	No parameters or sample collected due to inaccessible well								
	5/10/2023	No parameters or sample collected due to low well volume								
	7/21/2023	(orig)	0.0066	0.0011	0.110	1.100	2.4	3.9		
	10/20/2023	(orig)	0.014	<0.002	0.250	2.200	1.1	3.8		
	1/26/2024	(orig)	<0.002	<0.002	<0.002	<0.003	0.2	0.25		
	4/29/2024	No parameters or sample collected								
	8/5/2025	(orig)	0.0085	<0.002	0.130	1.600	1.5	2.0		
2/1/2025	No parameters or sample due to insufficient well volume									
8/1/2025	(orig)	0.0078	<0.002	0.180	1.500	7.8	2.7			
DW-1	12/16/2009	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	--	--		
	6/24/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	7/27/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	6/12/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	12/18/2014	Attempt to contact landowner regarding well sampling. No response.								
	6/18/2015	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	6/20/2016	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	9/27/2017	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	6/27/2018	Unable to sample, homeowner away								
	5/29/2019	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	<0.010		
	6/9/2020	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	--		
	6/28/2021	(orig)	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.020	0.12		
	7/28/2022	Attempt to contact landowner regarding well sampling. No response.								
7/21/2023	Attempt to contact landowner regarding well sampling. No response.									
DW-2	6/10/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	--	--		
	3/17/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	--	--		
	6/7/2012	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	6/12/2013	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	12/18/2014	Attempt to sample well but landowner had shut well in for the winter months								
	6/18/2015	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	6/20/2016	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	9/27/2017	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	6/27/2018	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	--	--		
	8/2/2019	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	<0.010		
	6/9/2020	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	--		
	6/28/2021	Attempt to sample well but well not functional								
	7/28/2022	Attempt to contact landowner regarding well sampling. No response.								
	7/21/2023	Attempt to contact landowner regarding well sampling. No response.								

Notes:

- mg/L: milligrams per liter
 - J: The target analyte was positively identified below the quantitation limit and above the detection limit.
 - ND: not detected, practical quantitation limit unknown
 - NMWQCC: New Mexico Water Quality Control Commission
 - : not analyzed
 - *: anomalous result
 - <0.037: indicates result less than the stated laboratory reporting limit (RL)
- Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code



APPENDIX A

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
 Hilcorp Energy
 PO BOX 4700
 Farmington, New Mexico 87499

Generated 2/11/2025 1:31:12 PM

JOB DESCRIPTION

Flora Vista

JOB NUMBER

885-19252-1

Eurofins Albuquerque
 4901 Hawkins NE
 Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Michelle Garcia, Project Manager
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(505)345-3975

Client: Hilcorp Energy
Project/Site: Flora Vista

Laboratory Job ID: 885-19252-1



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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Flora Vista

Job ID: 885-19252-1

Qualifiers

Metals

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Case Narrative

Client: Hilcorp Energy
Project: Flora Vista

Job ID: 885-19252-1

Job ID: 885-19252-1

Eurofins Albuquerque

Job Narrative 885-19252-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/4/2025 7:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

Receipt Exceptions

Samples require in-lab filtration method.

MW-2 (885-19252-1) and MW-3 (885-19252-2)

GC/MS VOA

Method 8260B: The following sample was diluted due to the nature of the sample matrix: MW-3 (885-19252-2).

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

Metals

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

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Client Sample Results

Client: Hilcorp Energy
Project/Site: Flora Vista

Job ID: 885-19252-1

Client Sample ID: MW-2

Lab Sample ID: 885-19252-1

Date Collected: 02/01/25 12:40

Matrix: Water

Date Received: 02/04/25 07:25

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.010		0.0020	mg/L			02/06/25 11:03	1

- 1
- 2
- 3
- 4
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- 10
- 11

Client Sample Results

Client: Hilcorp Energy
Project/Site: Flora Vista

Job ID: 885-19252-1

Client Sample ID: MW-3

Lab Sample ID: 885-19252-2

Date Collected: 02/01/25 12:00

Matrix: Water

Date Received: 02/04/25 07:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L			02/06/25 20:38	2
1,1,1-Trichloroethane	ND		2.0	ug/L			02/06/25 20:38	2
1,1,2,2-Tetrachloroethane	ND		4.0	ug/L			02/06/25 20:38	2
1,1,2-Trichloroethane	ND		2.0	ug/L			02/06/25 20:38	2
1,1-Dichloroethane	ND		2.0	ug/L			02/06/25 20:38	2
1,1-Dichloroethene	ND		2.0	ug/L			02/06/25 20:38	2
1,1-Dichloropropene	ND		2.0	ug/L			02/06/25 20:38	2
1,2,3-Trichlorobenzene	ND		2.0	ug/L			02/06/25 20:38	2
1,2,3-Trichloropropane	ND		4.0	ug/L			02/06/25 20:38	2
1,2,4-Trichlorobenzene	ND		2.0	ug/L			02/06/25 20:38	2
1,2,4-Trimethylbenzene	ND		2.0	ug/L			02/06/25 20:38	2
1,2-Dibromo-3-Chloropropane	ND		4.0	ug/L			02/06/25 20:38	2
1,2-Dibromoethane (EDB)	ND		2.0	ug/L			02/06/25 20:38	2
1,2-Dichlorobenzene	ND		2.0	ug/L			02/06/25 20:38	2
1,2-Dichloroethane (EDC)	ND		2.0	ug/L			02/06/25 20:38	2
1,2-Dichloropropane	ND		2.0	ug/L			02/06/25 20:38	2
1,3,5-Trimethylbenzene	ND		2.0	ug/L			02/06/25 20:38	2
1,3-Dichlorobenzene	ND		2.0	ug/L			02/06/25 20:38	2
1,3-Dichloropropane	ND		2.0	ug/L			02/06/25 20:38	2
1,4-Dichlorobenzene	ND		2.0	ug/L			02/06/25 20:38	2
1-Methylnaphthalene	ND		8.0	ug/L			02/06/25 20:38	2
2,2-Dichloropropane	ND		4.0	ug/L			02/06/25 20:38	2
2-Butanone	ND		20	ug/L			02/06/25 20:38	2
2-Chlorotoluene	ND		2.0	ug/L			02/06/25 20:38	2
2-Hexanone	ND		20	ug/L			02/06/25 20:38	2
2-Methylnaphthalene	ND		8.0	ug/L			02/06/25 20:38	2
4-Chlorotoluene	ND		2.0	ug/L			02/06/25 20:38	2
4-Isopropyltoluene	ND		2.0	ug/L			02/06/25 20:38	2
4-Methyl-2-pentanone	ND		20	ug/L			02/06/25 20:38	2
Acetone	ND		20	ug/L			02/06/25 20:38	2
Benzene	ND		2.0	ug/L			02/06/25 20:38	2
Bromobenzene	ND		2.0	ug/L			02/06/25 20:38	2
Bromodichloromethane	ND		2.0	ug/L			02/06/25 20:38	2
Dibromochloromethane	ND		2.0	ug/L			02/06/25 20:38	2
Bromoform	ND		2.0	ug/L			02/06/25 20:38	2
Bromomethane	ND		6.0	ug/L			02/06/25 20:38	2
Carbon disulfide	ND		20	ug/L			02/06/25 20:38	2
Carbon tetrachloride	ND		2.0	ug/L			02/06/25 20:38	2
Chlorobenzene	ND		2.0	ug/L			02/06/25 20:38	2
Chloroethane	ND		4.0	ug/L			02/06/25 20:38	2
Chloroform	ND		2.0	ug/L			02/06/25 20:38	2
Chloromethane	ND		6.0	ug/L			02/06/25 20:38	2
cis-1,2-Dichloroethene	ND		2.0	ug/L			02/06/25 20:38	2
cis-1,3-Dichloropropene	ND		2.0	ug/L			02/06/25 20:38	2
Dibromomethane	ND		2.0	ug/L			02/06/25 20:38	2
Dichlorodifluoromethane	ND		2.0	ug/L			02/06/25 20:38	2
Ethylbenzene	ND		2.0	ug/L			02/06/25 20:38	2
Hexachlorobutadiene	ND		2.0	ug/L			02/06/25 20:38	2
Isopropylbenzene	ND		2.0	ug/L			02/06/25 20:38	2

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Flora Vista

Job ID: 885-19252-1

Client Sample ID: MW-3

Lab Sample ID: 885-19252-2

Date Collected: 02/01/25 12:00

Matrix: Water

Date Received: 02/04/25 07:25

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	ug/L			02/06/25 20:38	2
Methylene Chloride	ND		5.0	ug/L			02/06/25 20:38	2
n-Butylbenzene	ND		6.0	ug/L			02/06/25 20:38	2
N-Propylbenzene	ND		2.0	ug/L			02/06/25 20:38	2
Naphthalene	ND		4.0	ug/L			02/06/25 20:38	2
sec-Butylbenzene	ND		2.0	ug/L			02/06/25 20:38	2
Styrene	ND		2.0	ug/L			02/06/25 20:38	2
tert-Butylbenzene	ND		2.0	ug/L			02/06/25 20:38	2
Tetrachloroethene (PCE)	ND		2.0	ug/L			02/06/25 20:38	2
Toluene	ND		2.0	ug/L			02/06/25 20:38	2
trans-1,2-Dichloroethene	ND		2.0	ug/L			02/06/25 20:38	2
trans-1,3-Dichloropropene	ND		2.0	ug/L			02/06/25 20:38	2
Trichloroethene (TCE)	ND		2.0	ug/L			02/06/25 20:38	2
Trichlorofluoromethane	ND		2.0	ug/L			02/06/25 20:38	2
Vinyl chloride	ND		2.0	ug/L			02/06/25 20:38	2
Xylenes, Total	ND		3.0	ug/L			02/06/25 20:38	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		02/06/25 20:38	2
Toluene-d8 (Surr)	99		70 - 130		02/06/25 20:38	2
4-Bromofluorobenzene (Surr)	95		70 - 130		02/06/25 20:38	2
Dibromofluoromethane (Surr)	91		70 - 130		02/06/25 20:38	2

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.76		0.10	mg/L			02/06/25 11:29	5
Manganese	0.45		0.0020	mg/L			02/06/25 11:24	1

QC Sample Results

Client: Hilcorp Energy
 Project/Site: Flora Vista

Job ID: 885-19252-1

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

Lab Sample ID: MB 885-20438/4
 Matrix: Water
 Analysis Batch: 20438

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			02/06/25 15:12	1
1,1,1-Trichloroethane	ND		1.0	ug/L			02/06/25 15:12	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			02/06/25 15:12	1
1,1,2-Trichloroethane	ND		1.0	ug/L			02/06/25 15:12	1
1,1-Dichloroethane	ND		1.0	ug/L			02/06/25 15:12	1
1,1-Dichloroethene	ND		1.0	ug/L			02/06/25 15:12	1
1,1-Dichloropropene	ND		1.0	ug/L			02/06/25 15:12	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			02/06/25 15:12	1
1,2,3-Trichloropropane	ND		2.0	ug/L			02/06/25 15:12	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			02/06/25 15:12	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			02/06/25 15:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			02/06/25 15:12	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			02/06/25 15:12	1
1,2-Dichlorobenzene	ND		1.0	ug/L			02/06/25 15:12	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			02/06/25 15:12	1
1,2-Dichloropropane	ND		1.0	ug/L			02/06/25 15:12	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			02/06/25 15:12	1
1,3-Dichlorobenzene	ND		1.0	ug/L			02/06/25 15:12	1
1,3-Dichloropropane	ND		1.0	ug/L			02/06/25 15:12	1
1,4-Dichlorobenzene	ND		1.0	ug/L			02/06/25 15:12	1
1-Methylnaphthalene	ND		4.0	ug/L			02/06/25 15:12	1
2,2-Dichloropropane	ND		2.0	ug/L			02/06/25 15:12	1
2-Butanone	ND		10	ug/L			02/06/25 15:12	1
2-Chlorotoluene	ND		1.0	ug/L			02/06/25 15:12	1
2-Hexanone	ND		10	ug/L			02/06/25 15:12	1
2-Methylnaphthalene	ND		4.0	ug/L			02/06/25 15:12	1
4-Chlorotoluene	ND		1.0	ug/L			02/06/25 15:12	1
4-Isopropyltoluene	ND		1.0	ug/L			02/06/25 15:12	1
4-Methyl-2-pentanone	ND		10	ug/L			02/06/25 15:12	1
Acetone	ND		10	ug/L			02/06/25 15:12	1
Benzene	ND		1.0	ug/L			02/06/25 15:12	1
Bromobenzene	ND		1.0	ug/L			02/06/25 15:12	1
Bromodichloromethane	ND		1.0	ug/L			02/06/25 15:12	1
Dibromochloromethane	ND		1.0	ug/L			02/06/25 15:12	1
Bromoform	ND		1.0	ug/L			02/06/25 15:12	1
Bromomethane	ND		3.0	ug/L			02/06/25 15:12	1
Carbon disulfide	ND		10	ug/L			02/06/25 15:12	1
Carbon tetrachloride	ND		1.0	ug/L			02/06/25 15:12	1
Chlorobenzene	ND		1.0	ug/L			02/06/25 15:12	1
Chloroethane	ND		2.0	ug/L			02/06/25 15:12	1
Chloroform	ND		1.0	ug/L			02/06/25 15:12	1
Chloromethane	ND		3.0	ug/L			02/06/25 15:12	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			02/06/25 15:12	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			02/06/25 15:12	1
Dibromomethane	ND		1.0	ug/L			02/06/25 15:12	1
Dichlorodifluoromethane	ND		1.0	ug/L			02/06/25 15:12	1
Ethylbenzene	ND		1.0	ug/L			02/06/25 15:12	1
Hexachlorobutadiene	ND		1.0	ug/L			02/06/25 15:12	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Flora Vista

Job ID: 885-19252-1

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

Lab Sample ID: MB 885-20438/4
Matrix: Water
Analysis Batch: 20438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Isopropylbenzene	ND		1.0	ug/L			02/06/25 15:12	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			02/06/25 15:12	1
Methylene Chloride	ND		2.5	ug/L			02/06/25 15:12	1
n-Butylbenzene	ND		3.0	ug/L			02/06/25 15:12	1
N-Propylbenzene	ND		1.0	ug/L			02/06/25 15:12	1
Naphthalene	ND		2.0	ug/L			02/06/25 15:12	1
sec-Butylbenzene	ND		1.0	ug/L			02/06/25 15:12	1
Styrene	ND		1.0	ug/L			02/06/25 15:12	1
tert-Butylbenzene	ND		1.0	ug/L			02/06/25 15:12	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			02/06/25 15:12	1
Toluene	ND		1.0	ug/L			02/06/25 15:12	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			02/06/25 15:12	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			02/06/25 15:12	1
Trichloroethene (TCE)	ND		1.0	ug/L			02/06/25 15:12	1
Trichlorofluoromethane	ND		1.0	ug/L			02/06/25 15:12	1
Vinyl chloride	ND		1.0	ug/L			02/06/25 15:12	1
Xylenes, Total	ND		1.5	ug/L			02/06/25 15:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		02/06/25 15:12	1
Toluene-d8 (Surr)	100		70 - 130		02/06/25 15:12	1
4-Bromofluorobenzene (Surr)	96		70 - 130		02/06/25 15:12	1
Dibromofluoromethane (Surr)	95		70 - 130		02/06/25 15:12	1

Lab Sample ID: LCS 885-20438/3
Matrix: Water
Analysis Batch: 20438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.1	19.0		ug/L		95	70 - 130
Chlorobenzene	20.1	19.9		ug/L		99	70 - 130
Toluene	20.2	19.7		ug/L		97	70 - 130
Trichloroethene (TCE)	20.2	17.5		ug/L		87	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
 Project/Site: Flora Vista

Job ID: 885-19252-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MRL 885-20408/28
 Matrix: Water
 Analysis Batch: 20408

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0200	0.0238	J	mg/L		119	50 - 150
Manganese	0.00200	0.00196	J	mg/L		98	50 - 150

Lab Sample ID: 885-19252-1 MS
 Matrix: Water
 Analysis Batch: 20408

Client Sample ID: MW-2
 Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.010		0.500	0.477		mg/L		93	70 - 130

Lab Sample ID: 885-19252-1 MSD
 Matrix: Water
 Analysis Batch: 20408

Client Sample ID: MW-2
 Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.010		0.500	0.477		mg/L		93	70 - 130	0	20

Lab Sample ID: 885-19252-2 MS
 Matrix: Water
 Analysis Batch: 20408

Client Sample ID: MW-3
 Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.76		2.50	3.08		mg/L		93	70 - 130

Lab Sample ID: 885-19252-2 MSD
 Matrix: Water
 Analysis Batch: 20408

Client Sample ID: MW-3
 Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.45		0.500	0.918		mg/L		95	70 - 130	3	20

Lab Sample ID: 885-19252-2 MSD
 Matrix: Water
 Analysis Batch: 20408

Client Sample ID: MW-3
 Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.76		2.50	3.16		mg/L		96	70 - 130	2	20

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
 Project/Site: Flora Vista

Job ID: 885-19252-1

GC/MS VOA

Analysis Batch: 20438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19252-2	MW-3	Total/NA	Water	8260B	
MB 885-20438/4	Method Blank	Total/NA	Water	8260B	
LCS 885-20438/3	Lab Control Sample	Total/NA	Water	8260B	

Metals

Filtration Batch: 20269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19252-1	MW-2	Dissolved	Water	Filtration	
885-19252-2	MW-3	Dissolved	Water	Filtration	
885-19252-1 MS	MW-2	Dissolved	Water	Filtration	
885-19252-1 MSD	MW-2	Dissolved	Water	Filtration	
885-19252-2 MS	MW-3	Dissolved	Water	Filtration	
885-19252-2 MSD	MW-3	Dissolved	Water	Filtration	

Analysis Batch: 20408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19252-1	MW-2	Dissolved	Water	200.7 Rev 4.4	20269
885-19252-2	MW-3	Dissolved	Water	200.7 Rev 4.4	20269
885-19252-2	MW-3	Dissolved	Water	200.7 Rev 4.4	20269
MRL 885-20408/28	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
885-19252-1 MS	MW-2	Dissolved	Water	200.7 Rev 4.4	20269
885-19252-1 MSD	MW-2	Dissolved	Water	200.7 Rev 4.4	20269
885-19252-2 MS	MW-3	Dissolved	Water	200.7 Rev 4.4	20269
885-19252-2 MSD	MW-3	Dissolved	Water	200.7 Rev 4.4	20269
885-19252-2 MSD	MW-3	Dissolved	Water	200.7 Rev 4.4	20269

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: Flora Vista

Job ID: 885-19252-1

Client Sample ID: MW-2
 Date Collected: 02/01/25 12:40
 Date Received: 02/04/25 07:25

Lab Sample ID: 885-19252-1
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Filtration	Filtration			20269	SM	EET ALB	02/04/25 10:43
Dissolved	Analysis	200.7 Rev 4.4		1	20408	VP	EET ALB	02/06/25 11:03

Client Sample ID: MW-3
 Date Collected: 02/01/25 12:00
 Date Received: 02/04/25 07:25

Lab Sample ID: 885-19252-2
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	20438	JR	EET ALB	02/06/25 20:38
Dissolved	Filtration	Filtration			20269	SM	EET ALB	02/04/25 10:43
Dissolved	Analysis	200.7 Rev 4.4		1	20408	VP	EET ALB	02/06/25 11:24
Dissolved	Filtration	Filtration			20269	SM	EET ALB	02/04/25 10:43
Dissolved	Analysis	200.7 Rev 4.4		5	20408	VP	EET ALB	02/06/25 11:29

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: Flora Vista

Job ID: 885-19252-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4		Water	Iron
200.7 Rev 4.4		Water	Manganese
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: Flora Vista

Job ID: 885-19252-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total
Oregon	NELAP	NM100001	02-25-25

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-19252-1

Login Number: 19252

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
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.	False	Refer to Job Narrative for details.
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
 Hilcorp Energy
 PO BOX 4700
 Farmington, New Mexico 87499

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JOB DESCRIPTION

Flora Vista 1

JOB NUMBER

885-30127-1

Eurofins Albuquerque
 4901 Hawkins NE
 Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
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(505)345-3975

Client: Hilcorp Energy
Project/Site: Flora Vista 1

Laboratory Job ID: 885-30127-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Flora Vista 1

Job ID: 885-30127-1

Qualifiers

Metals

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Case Narrative

Client: Hilcorp Energy
Project: Flora Vista 1

Job ID: 885-30127-1

Job ID: 885-30127-1

Eurofins Albuquerque

Job Narrative 885-30127-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/2/2025 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

GC/MS VOA

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

Metals

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

Eurofins Albuquerque



Client Sample Results

Client: Hilcorp Energy
 Project/Site: Flora Vista 1

Job ID: 885-30127-1

Client Sample ID: MW-1

Lab Sample ID: 885-30127-1

Date Collected: 08/01/25 14:10

Matrix: Water

Date Received: 08/02/25 08:15

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0		1.0	ug/L			08/08/25 23:15	1
Ethylbenzene	36		1.0	ug/L			08/08/25 23:15	1
Toluene	ND		1.0	ug/L			08/08/25 23:15	1
Xylenes, Total	7.1		1.5	ug/L			08/08/25 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		08/08/25 23:15	1
4-Bromofluorobenzene (Surr)	96		70 - 130		08/08/25 23:15	1
Dibromofluoromethane (Surr)	77		70 - 130		08/08/25 23:15	1
Toluene-d8 (Surr)	115		70 - 130		08/08/25 23:15	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.063		0.020	mg/L			08/05/25 09:47	1
Manganese	4.5		0.020	mg/L			08/05/25 10:05	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: Flora Vista 1

Job ID: 885-30127-1

Client Sample ID: MW-2

Lab Sample ID: 885-30127-2

Date Collected: 08/01/25 10:00

Matrix: Water

Date Received: 08/02/25 08:15

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.0020	mg/L			08/05/25 09:49	1

- 1
- 2
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- 10
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Client Sample Results

Client: Hilcorp Energy
 Project/Site: Flora Vista 1

Job ID: 885-30127-1

Client Sample ID: MW-3

Lab Sample ID: 885-30127-3

Date Collected: 08/01/25 10:50

Matrix: Water

Date Received: 08/02/25 08:15

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/08/25 23:40	1
Ethylbenzene	ND		1.0	ug/L			08/08/25 23:40	1
Toluene	ND		1.0	ug/L			08/08/25 23:40	1
Xylenes, Total	ND		1.5	ug/L			08/08/25 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		08/08/25 23:40	1
4-Bromofluorobenzene (Surr)	92		70 - 130		08/08/25 23:40	1
Dibromofluoromethane (Surr)	100		70 - 130		08/08/25 23:40	1
Toluene-d8 (Surr)	98		70 - 130		08/08/25 23:40	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.5		0.20	mg/L			08/05/25 10:14	10
Manganese	0.57		0.0020	mg/L			08/05/25 09:51	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Flora Vista 1

Job ID: 885-30127-1

Client Sample ID: MW-4

Lab Sample ID: 885-30127-4

Date Collected: 08/01/25 11:30

Matrix: Water

Date Received: 08/02/25 08:15

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/09/25 00:04	1
Ethylbenzene	ND		1.0	ug/L			08/09/25 00:04	1
Toluene	ND		1.0	ug/L			08/09/25 00:04	1
Xylenes, Total	ND		1.5	ug/L			08/09/25 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		08/09/25 00:04	1
4-Bromofluorobenzene (Surr)	91		70 - 130		08/09/25 00:04	1
Dibromofluoromethane (Surr)	92		70 - 130		08/09/25 00:04	1
Toluene-d8 (Surr)	96		70 - 130		08/09/25 00:04	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.33		0.020	mg/L			08/05/25 09:53	1
Manganese	2.8		0.020	mg/L			08/05/25 10:15	10

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Flora Vista 1

Job ID: 885-30127-1

Client Sample ID: MW-5

Lab Sample ID: 885-30127-5

Date Collected: 08/01/25 12:30

Matrix: Water

Date Received: 08/02/25 08:15

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.8		2.0	ug/L			08/11/25 18:36	2
Ethylbenzene	180		2.0	ug/L			08/11/25 18:36	2
Toluene	ND		2.0	ug/L			08/11/25 18:36	2
Xylenes, Total	1500		30	ug/L			08/11/25 18:08	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		08/11/25 18:08	20
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		08/11/25 18:36	2
4-Bromofluorobenzene (Surr)	85		70 - 130		08/11/25 18:08	20
4-Bromofluorobenzene (Surr)	87		70 - 130		08/11/25 18:36	2
Dibromofluoromethane (Surr)	128		70 - 130		08/11/25 18:08	20
Dibromofluoromethane (Surr)	111		70 - 130		08/11/25 18:36	2
Toluene-d8 (Surr)	104		70 - 130		08/11/25 18:08	20
Toluene-d8 (Surr)	104		70 - 130		08/11/25 18:36	2

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.8		0.20	mg/L			08/05/25 10:17	10
Manganese	2.7		0.020	mg/L			08/05/25 10:17	10

QC Sample Results

Client: Hilcorp Energy
Project/Site: Flora Vista 1

Job ID: 885-30127-1

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

Lab Sample ID: MB 885-31924/5
Matrix: Water
Analysis Batch: 31924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/08/25 15:24	1
Ethylbenzene	ND		1.0	ug/L			08/08/25 15:24	1
Toluene	ND		1.0	ug/L			08/08/25 15:24	1
Xylenes, Total	ND		1.5	ug/L			08/08/25 15:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		08/08/25 15:24	1
4-Bromofluorobenzene (Surr)	92		70 - 130		08/08/25 15:24	1
Dibromofluoromethane (Surr)	100		70 - 130		08/08/25 15:24	1
Toluene-d8 (Surr)	98		70 - 130		08/08/25 15:24	1

Lab Sample ID: LCS 885-31924/4
Matrix: Water
Analysis Batch: 31924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	19.4		ug/L		97	70 - 130
Toluene	20.0	19.7		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 885-32010/5
Matrix: Water
Analysis Batch: 32010

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 13:32	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 13:32	1
Toluene	ND		1.0	ug/L			08/11/25 13:32	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 13:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		08/11/25 13:32	1
4-Bromofluorobenzene (Surr)	86		70 - 130		08/11/25 13:32	1
Dibromofluoromethane (Surr)	101		70 - 130		08/11/25 13:32	1
Toluene-d8 (Surr)	107		70 - 130		08/11/25 13:32	1

Lab Sample ID: LCS 885-32010/4
Matrix: Water
Analysis Batch: 32010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	19.5		ug/L		98	70 - 130
Toluene	20.0	22.4		ug/L		112	70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
 Project/Site: Flora Vista 1

Job ID: 885-30127-1

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-31600/67
 Matrix: Water
 Analysis Batch: 31600

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Iron	ND		0.020	mg/L			08/05/25 09:37	1
Manganese	ND		0.0020	mg/L			08/05/25 09:37	1

Lab Sample ID: LCS 885-31600/68
 Matrix: Water
 Analysis Batch: 31600

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Iron	0.500	0.444		mg/L		89	85 - 115
Manganese	0.500	0.431		mg/L		86	85 - 115

Lab Sample ID: MRL 885-31600/31
 Matrix: Water
 Analysis Batch: 31600

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Iron	0.0200	0.0157	J	mg/L		79	50 - 150
Manganese	0.00200	0.00202		mg/L		101	50 - 150

Lab Sample ID: MB 885-31472/6-A
 Matrix: Water
 Analysis Batch: 31600

Client Sample ID: Method Blank
 Prep Type: Dissolved

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Iron	ND		0.020	mg/L			08/05/25 09:40	1
Manganese	ND		0.0020	mg/L			08/05/25 09:40	1

QC Association Summary

Client: Hilcorp Energy
 Project/Site: Flora Vista 1

Job ID: 885-30127-1

GC/MS VOA

Analysis Batch: 31924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30127-1	MW-1	Total/NA	Water	8260B	
885-30127-3	MW-3	Total/NA	Water	8260B	
885-30127-4	MW-4	Total/NA	Water	8260B	
MB 885-31924/5	Method Blank	Total/NA	Water	8260B	
LCS 885-31924/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 32010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30127-5	MW-5	Total/NA	Water	8260B	
885-30127-5	MW-5	Total/NA	Water	8260B	
MB 885-32010/5	Method Blank	Total/NA	Water	8260B	
LCS 885-32010/4	Lab Control Sample	Total/NA	Water	8260B	

Metals

Filtration Batch: 31472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30127-1	MW-1	Dissolved	Water	Filtration	
885-30127-2	MW-2	Dissolved	Water	Filtration	
885-30127-3	MW-3	Dissolved	Water	Filtration	
885-30127-4	MW-4	Dissolved	Water	Filtration	
885-30127-5	MW-5	Dissolved	Water	Filtration	
MB 885-31472/6-A	Method Blank	Dissolved	Water	Filtration	

Analysis Batch: 31600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30127-1	MW-1	Dissolved	Water	200.7 Rev 4.4	31472
885-30127-1	MW-1	Dissolved	Water	200.7 Rev 4.4	31472
885-30127-2	MW-2	Dissolved	Water	200.7 Rev 4.4	31472
885-30127-3	MW-3	Dissolved	Water	200.7 Rev 4.4	31472
885-30127-3	MW-3	Dissolved	Water	200.7 Rev 4.4	31472
885-30127-4	MW-4	Dissolved	Water	200.7 Rev 4.4	31472
885-30127-4	MW-4	Dissolved	Water	200.7 Rev 4.4	31472
885-30127-5	MW-5	Dissolved	Water	200.7 Rev 4.4	31472
MB 885-31472/6-A	Method Blank	Dissolved	Water	200.7 Rev 4.4	31472
MB 885-31600/67	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-31600/68	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-31600/31	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Flora Vista 1

Job ID: 885-30127-1

Client Sample ID: MW-1

Lab Sample ID: 885-30127-1

Date Collected: 08/01/25 14:10

Matrix: Water

Date Received: 08/02/25 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	31924	CM	EET ALB	08/08/25 23:15
Dissolved	Filtration	Filtration			31472	TC	EET ALB	08/02/25 13:31
Dissolved	Analysis	200.7 Rev 4.4		1	31600	VP	EET ALB	08/05/25 09:47
Dissolved	Filtration	Filtration			31472	TC	EET ALB	08/02/25 13:31
Dissolved	Analysis	200.7 Rev 4.4		10	31600	VP	EET ALB	08/05/25 10:05

Client Sample ID: MW-2

Lab Sample ID: 885-30127-2

Date Collected: 08/01/25 10:00

Matrix: Water

Date Received: 08/02/25 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Dissolved	Filtration	Filtration			31472	TC	EET ALB	08/02/25 13:31
Dissolved	Analysis	200.7 Rev 4.4		1	31600	VP	EET ALB	08/05/25 09:49

Client Sample ID: MW-3

Lab Sample ID: 885-30127-3

Date Collected: 08/01/25 10:50

Matrix: Water

Date Received: 08/02/25 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	31924	CM	EET ALB	08/08/25 23:40
Dissolved	Filtration	Filtration			31472	TC	EET ALB	08/02/25 13:31
Dissolved	Analysis	200.7 Rev 4.4		1	31600	VP	EET ALB	08/05/25 09:51
Dissolved	Filtration	Filtration			31472	TC	EET ALB	08/02/25 13:31
Dissolved	Analysis	200.7 Rev 4.4		10	31600	VP	EET ALB	08/05/25 10:14

Client Sample ID: MW-4

Lab Sample ID: 885-30127-4

Date Collected: 08/01/25 11:30

Matrix: Water

Date Received: 08/02/25 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	31924	CM	EET ALB	08/09/25 00:04
Dissolved	Filtration	Filtration			31472	TC	EET ALB	08/02/25 13:31
Dissolved	Analysis	200.7 Rev 4.4		1	31600	VP	EET ALB	08/05/25 09:53
Dissolved	Filtration	Filtration			31472	TC	EET ALB	08/02/25 13:31
Dissolved	Analysis	200.7 Rev 4.4		10	31600	VP	EET ALB	08/05/25 10:15

Client Sample ID: MW-5

Lab Sample ID: 885-30127-5

Date Collected: 08/01/25 12:30

Matrix: Water

Date Received: 08/02/25 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		20	32010	CM	EET ALB	08/11/25 18:08
Total/NA	Analysis	8260B		2	32010	CM	EET ALB	08/11/25 18:36
Dissolved	Filtration	Filtration			31472	TC	EET ALB	08/02/25 13:31
Dissolved	Analysis	200.7 Rev 4.4		10	31600	VP	EET ALB	08/05/25 10:17

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Flora Vista 1

Job ID: 885-30127-1

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Flora Vista 1

Job ID: 885-30127-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date																												
New Mexico	State	NM9425, NM0901	02-27-26																												
<p>The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>200.7 Rev 4.4</td> <td></td> <td>Water</td> <td>Iron</td> </tr> <tr> <td>200.7 Rev 4.4</td> <td></td> <td>Water</td> <td>Manganese</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Benzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Ethylbenzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Toluene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Xylenes, Total</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	200.7 Rev 4.4		Water	Iron	200.7 Rev 4.4		Water	Manganese	8260B		Water	Benzene	8260B		Water	Ethylbenzene	8260B		Water	Toluene	8260B		Water	Xylenes, Total
Analysis Method	Prep Method	Matrix	Analyte																												
200.7 Rev 4.4		Water	Iron																												
200.7 Rev 4.4		Water	Manganese																												
8260B		Water	Benzene																												
8260B		Water	Ethylbenzene																												
8260B		Water	Toluene																												
8260B		Water	Xylenes, Total																												
Oregon	NELAP	NM100001	02-26-26																												

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Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-30127-1

Login Number: 30127

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 565542

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 565542
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	4/16/2026
amaxwell	Submit annual report by April 1, 2027.	4/16/2026