



March 26, 2025

New Mexico Oil Conservation Division

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

Re: 2024 Annual Groundwater Monitoring Report

Bruington Gas Com #1
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: nJK1201238485

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *2024 Annual Groundwater Monitoring Report* to the New Mexico Oil Conservation Division (NMOCD) to document groundwater monitoring activities conducted at the Bruington Gas Com #1 natural gas production well (Site) during 2024. The Site is located within Unit Letter E, Section 14, Township 29 North, and Range 11 West, San Juan County, New Mexico (Figure 1).

There are currently nine monitoring wells onsite, which are monitored semiannually for groundwater elevations and sampling. Conditions of approval reducing groundwater monitoring to an annual frequency were received after these events and will be implemented beginning in 2025.. This report presents the results of the 2024 monitoring events.

SITE BACKGROUND

A comprehensive Site history was documented in annual groundwater monitoring reports prepared by previous consultants, which are available through the NMOCD database. In December 2017, Hilcorp acquired the Site from XTO Energy Inc. and continued semiannual monitoring of groundwater elevations, along with annual or semiannual sampling of all monitoring wells. In 2024, the NMOCD approved conditions outlined in the *2021 Annual Groundwater Monitoring Report* to implement active groundwater remediation by installing activated Oxygen Release Compound (ORC®) socks in monitoring wells MW-2R, MW-5, and MW-6 during the first quarter of 2024. ORC® socks were also installed in MW-7 and MW-8. Oxidation-reduction potential (ORP) and dissolved oxygen (DO) values were measured in these wells to evaluate the effectiveness of the ORC® socks. Groundwater elevations were collected semiannually, and groundwater sampling was conducted semiannually for monitoring wells MW-1R, MW-2R, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9, in accordance with NMOCD requirements, until concentrations of contaminants of concern (COCs) reached the human health standards defined by the New Mexico Water Quality Control Commission (NMWQCC). Summaries of historical and current groundwater elevation data and laboratory analytical results are presented in Table 1 and Table 2, respectively.

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 micrograms per liter ($\mu\text{g/L}$):

- Benzene: 5 $\mu\text{g/L}$
- Toluene: 1,000 $\mu\text{g/L}$
- Ethylbenzene: 700 $\mu\text{g/L}$
- Total Xylenes: 620 $\mu\text{g/L}$

GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Groundwater level measurements were collected from all monitoring wells in June and December 2024. Static groundwater levels were recorded using an oil/water interface probe, which was decontaminated with Alconox[®] soap and rinsed with distilled water prior to each measurement to prevent cross-contamination. Measured depths-to-groundwater and calculated groundwater elevations are presented in Table 1.

The inferred groundwater flow direction in the northern portion of the Site is generally southward. In the southern portion of the Site, flow direction varies seasonally, trending southwest as shown on the potentiometric surface maps in Figures 2 and 3. These variations are likely influenced by seasonal fluctuations in irrigation water within the Citizen's Irrigation Ditch, located west of the Site.

During the December 2024 monitoring event, 0.02 feet of phase-separated hydrocarbons (PSH) were observed in well MW-2R. No PSH was detected in any other monitoring wells during the 2024 monitoring/sampling events.

GROUNDWATER SAMPLING

Groundwater samples were collected during the June and December 2024 sampling events in all Site wells that did not contain PSH. Conditions of approval reducing groundwater monitoring to an annual frequency were received after these events and will be implemented beginning in 2025. Groundwater from each monitoring well was purged and sampled using a disposable bailer. Purging involved removing stagnant groundwater from the monitoring well prior to sample collection. Field measurements of groundwater quality parameters, including temperature, pH, electrical conductivity, and total dissolved solids were recorded during the purging process.

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. Containers were immediately sealed and packed on ice to preserve samples. Samples were submitted to Hall Environmental Analysis Laboratory and/or Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B. 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

During the June and December 2024 sampling events, well MW-3R was dry and could not be sampled, while MW-7 was too close to an adjacent trailer and could not be accessed. The riser pipe on wells MW-4 and MW-6 was damaged, preventing the use of an interface probe or bailer, and neither well was sampled during either event. A hydrocarbon sheen was observed in MW-8

during the June 2024 event, and LNAPL was measured in MW-2R during December 2024. Concentrations of BTEX constituents were below NMWQCC standards in samples collected from MW-1R and MW-9 during both events. Groundwater analytical results for MW-2R, MW-5, and MW-8 exceeded one or more NMWQCC standards for BTEX constituents during both sampling rounds. Specifically, MW-2R contained PSH for the first time since monitoring began and MW-5 and MW-8 exhibited elevated BTEX concentrations. Analytical results are summarized in Table 2 and depicted on Figures 2 and 3, with complete laboratory analytical reports provided in Appendix A.

CONCLUSIONS

BTEX concentrations have not been detected above laboratory reporting limits in wells MW-1R, MW-3R, and MW-4 for more than 10 years, although MW-3R has been dry and unsampled since 2019. Wells MW-4 and MW-6 were damaged and could not be sampled during the 2024 monitoring events. BTEX concentrations in well MW-9 had not exceeded NMWQCC standards since 2018; however, benzene exceeded the applicable standard during the December 2023 sampling event. Historical data from MW-9 indicates benzene concentrations have fluctuated annually, ranging from below detection limits to a maximum of 285 µg/L. PSH and/or BTEX concentrations exceeding NMWQCC standards continued to be observed in wells MW-2R, MW-5, and MW-8 during both 2024 sampling events, with benzene concentrations generally highest in MW-2R and MW-5. Overall, BTEX concentrations at the Site remained consistent with historical trends. A general decrease in concentrations was observed in some wells where ORC[®] socks were installed, suggesting potential early effectiveness of the remediation approach.

Groundwater flow direction and elevation fluctuations appear to be influenced by the intermittent presence of water in the Citizen's Irrigation Ditch located west of the Site. Groundwater elevations in wells located in the southern portion of the Site, nearer to the irrigation ditch, are affected by these changes, whereas upgradient well MW-9 appears to be less influenced by the fluctuations.

RECOMMENDATIONS

Based on current and historical data collected at the Site, Ensolum/Hilcorp recommend the following actions:

- Continue semiannual gauging and annual sampling of all monitoring wells. Once concentrations of COCs fall below NMWQCC standards, increase sampling frequency to quarterly until eight consecutive quarters demonstrate compliance.
- Continue enhanced aerobic bioremediation by maintaining ORC[®] socks in monitoring wells MW-2R, MW-5, and MW-6, MW-7, and MW-8.
- Continue field screening of ORP and DO during semiannual gauging and annual sampling events to assess the effectiveness of ORC[®] socks in promoting aerobic conditions.
- Repair the damaged riser pipe on MW-6 to allow for future sampling and evaluation.
- Plug and abandon wells MW-1R, MW-3R, and MW-4 in accordance with NMOCD requirements, as BTEX concentrations have not exceeded laboratory reporting limits in these wells since 2011 and they no longer provide useful monitoring data.

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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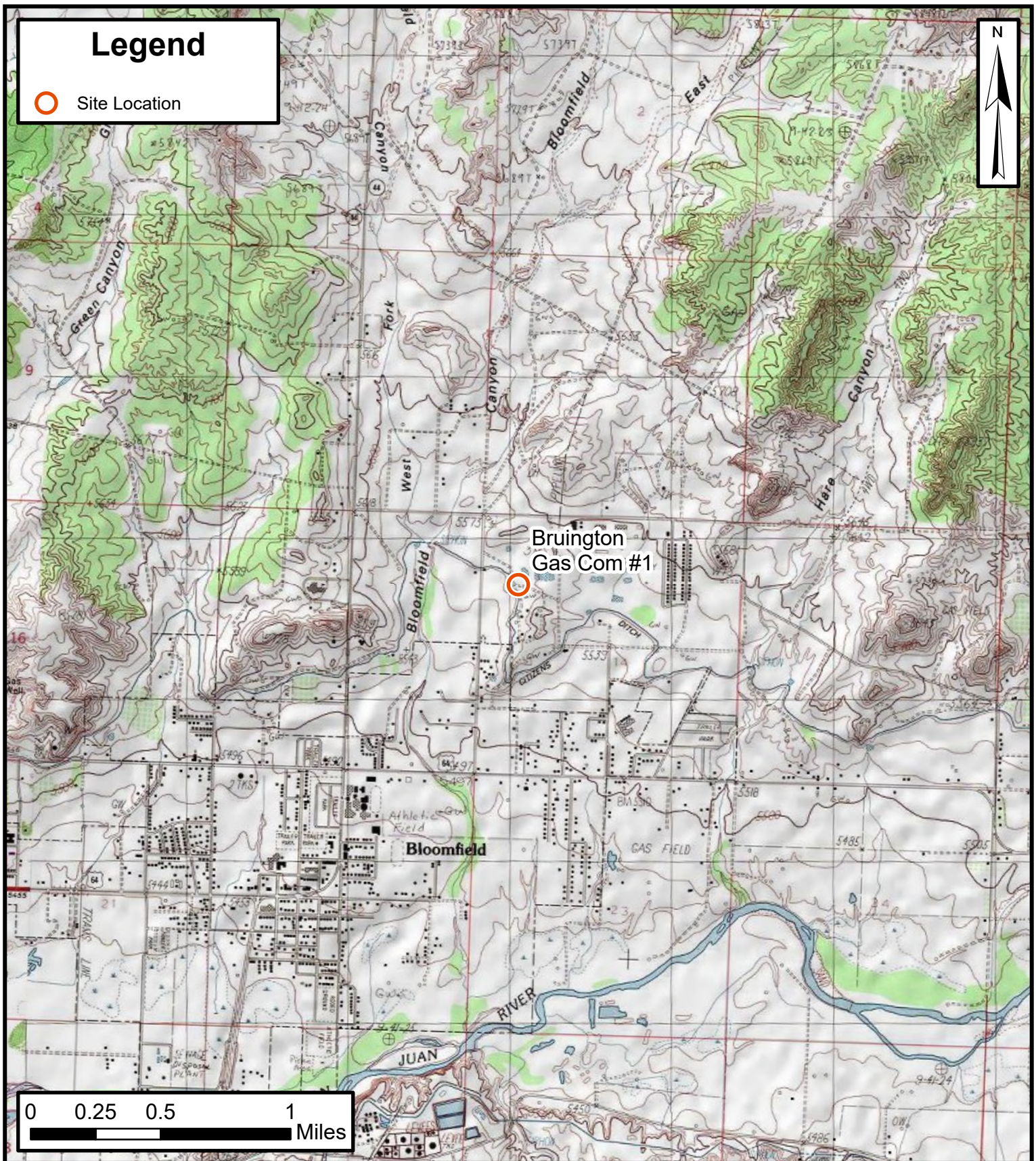
Wes Weichert, PG (Licensed in WY)
Project Geologist
(816) 266-8732
wweichert@ensolum.com

Attachments:

Figure 1	Site Location Map
Figure 2	Groundwater Elevation and Analytical Results (June 2024)
Figure 3	Groundwater Elevation and Analytical Results (December 2024)
Table 1	Groundwater Elevation Summary
Table 2	Groundwater Analytical Results
Appendix A	Laboratory Analytical Reports



FIGURES



Site Location Map

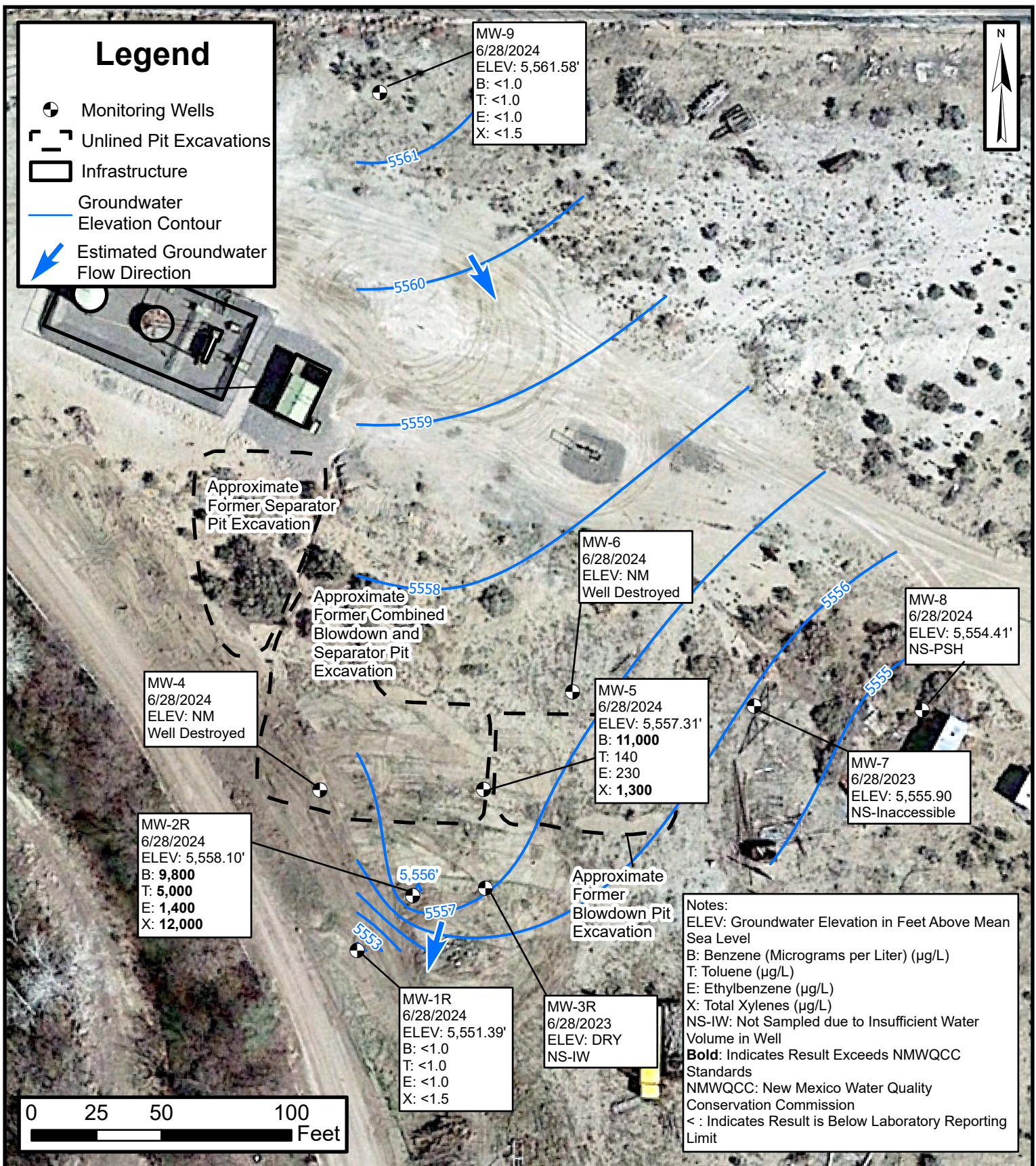
Bruington Gas Com #1
Hilcorp Energy Company

36.728985, -107.967408
San Juan County, New Mexico

FIGURE

1



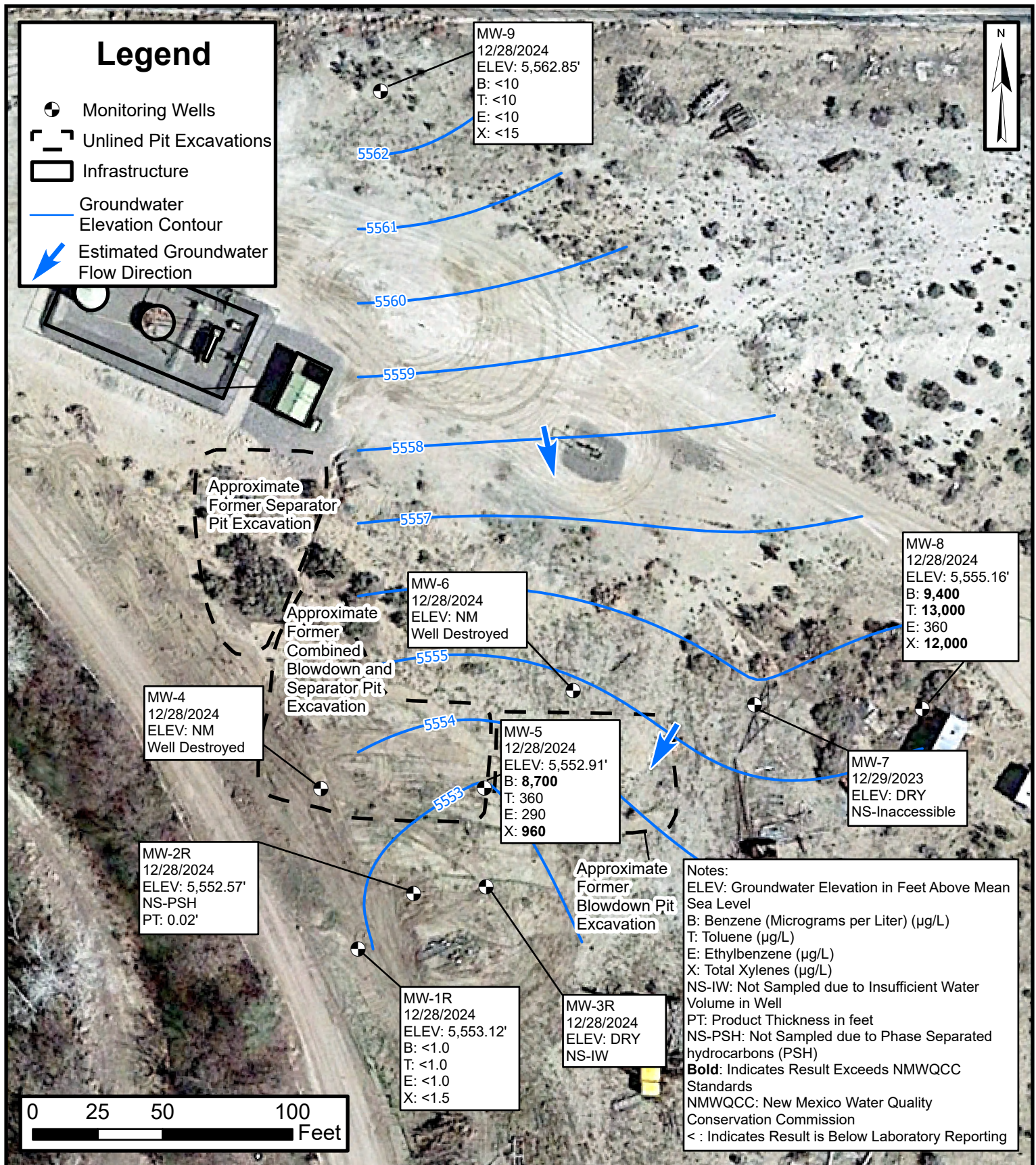


Groundwater Elevation and Analytical Results (June 2024)

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Hilcorp Energy Company
36.728985, -107.967408
San Juan County, New Mexico

FIGURE
2

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



Groundwater Elevation and Analytical Results (December 2024)

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FIGURE
3

ENSOLUM
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 Hydrogeologic Consultants



TABLES



TABLE 1
GROUNDWATER ELEVATION SUMMARY

Bruington Gas Com #1
Hilcorp Energy Company
San Juan, New Mexico

Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-1	Not Measured	7/6/1996	--	7.00	--	-
MW-1R	5,566.63	5/5/1999	--	10.55	--	5,556.08
		6/29/2000	--	11.14	--	5,555.49
		5/17/2001	--	11.33	--	5,555.30
		9/24/2001	--	9.84	--	5,556.79
		7/27/2002	--	9.93	--	5,556.70
		6/25/2003	--	11.45	--	5,555.18
		8/25/2003	--	12.14	--	5,554.49
		4/25/2006	--	11.55	--	5,555.08
		11/10/2006	--	--	--	--
		11/27/2006	--	13.17	--	5,553.46
		2/23/2007	--	14.24	--	5,552.39
		3/28/2007	--	16.78	--	5,549.85
		4/11/2007	--	13.51	--	5,553.12
		6/13/2007	--	7.51	--	5,559.12
		8/21/2007	--	7.20	--	5,559.43
		9/25/2007	--	7.07	--	5,559.56
		10/30/2007	--	7.66	--	5,558.97
		11/27/2007	--	11.50	--	5,555.13
		12/20/2007	--	12.97	--	5,553.66
		2/26/2008	--	--	--	--
		3/12/2008	--	13.18	--	5,553.45
		4/7/2008	--	--	--	--
		6/2/2008	--	7.53	--	5,559.10
		8/12/2008	--	6.77	--	5,559.86
		9/22/2008	--	7.76	--	5,558.87
		10/22/2008	--	6.39	--	5,560.24
		12/5/2008	--	11.26	--	5,555.37
		2/6/2009	--	12.55	--	5,554.08
		3/3/2009	--	15.24	--	5,551.39
		6/24/2009	--	6.52	--	5,560.11
		9/15/2009	--	6.98	--	5,559.65
		12/7/2009	--	11.22	--	5,555.41
		3/3/2010	--	15.17	--	5,551.46
		6/21/2010	--	6.74	--	5,559.89
		9/9/2010	--	7.70	--	5,558.93
		1/13/2011	--	13.70	--	5,552.93
		3/2/2011	--	13.69	--	5,552.94
		6/15/2011	--	7.04	--	5,559.59
		12/15/2011	--	12.24	--	5,554.39
		6/14/2012	--	7.41	--	5,559.22
		12/4/2012	--	11.45	--	5,555.18
		6/18/2013	--	7.15	--	5,559.48
		12/17/2013	--	12.13	--	5,554.50
		6/18/2014	--	7.00	--	5,559.63
		12/10/2014	--	11.88	--	5,554.75



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Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-1R	5,566.63	6/8/2015	--	6.39	--	5,560.24
		12/14/2015	--	12.45	--	5,554.18
		2/19/2016	--	16.04	--	5,550.59
		6/13/2016	--	8.90	--	5,557.73
		12/13/2016	--	11.85	--	5,554.78
		6/28/2017	--	8.07	--	5,558.56
		12/5/2017	--	11.61	--	5,555.02
		6/27/2018	--	7.27	--	5,559.36
		12/11/2018	--	12.75	--	5,553.88
		6/18/2019	--	8.52	--	5,558.11
		12/9/2019	--	13.85	--	5,552.78
		6/11/2020	--	7.25	--	5,559.38
		12/16/2020	--	13.47	--	5,553.16
		6/21/2021	--	7.49	--	5,559.14
		12/16/2021	--	12.84	--	5,553.79
		7/6/2022	--	7.51	--	5,559.12
		12/30/2022	--	16.25	--	5,550.38
		6/28/2023	--	8.85	--	5,557.78
		12/29/2023	--	13.67	--	5,552.96
		6/28/2024	--	15.24	--	5,551.39
		12/28/2024	--	13.51	--	5,553.12
MW-2	5,567.99	6/7/1996	--	10.12	--	5,557.87
		6/27/1997	--	12.65	--	5,555.34
MW-2R	5,567.99	6/12/1998	--	11.00	--	5,556.99
		5/5/1999	--	10.78	--	5,557.21
		6/29/2000	--	11.50	--	5,556.49
		5/17/2001	--	12.12	--	5,555.87
		9/24/2001	--	10.08	--	5,557.91
		6/27/2002	--	9.77	--	5,558.22
		6/25/2003	--	11.53	--	5,556.46
		6/18/2004	--	12.07	--	5,555.92
		6/27/2005	--	10.14	--	5,557.85
		4/25/2006	--	11.64	--	5,556.35
		11/10/2006	--	--	--	--
		11/27/2006	--	11.32	--	5,556.67
		2/23/2007	--	12.55	--	5,555.44
		3/28/2007	--	14.72	--	5,553.27
		4/11/2007	--	12.79	--	5,555.20
		6/13/2007	--	9.94	--	5,558.05
		8/21/2007	--	9.36	--	5,558.63
		9/25/2007	--	9.33	--	5,558.66
		10/30/2007	--	9.45	--	5,558.54
		11/27/2007	--	12.02	--	5,555.97
		12/20/2007	--	13.13	--	5,554.86
		2/26/2008	--	--	--	--



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Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-2R	5,567.99	3/12/2008	--	13.51	--	5,554.48
		4/7/2008	--	--	--	--
		6/2/2008	--	10.07	--	5,557.92
		8/12/2008	--	9.38	--	5,558.61
		9/22/2008	--	10.29	--	5,557.70
		10/22/2008	--	9.10	--	5,558.89
		12/5/2008	--	12.05	--	5,555.94
		2/6/2009	--	13.40	--	5,554.59
		3/3/2009	--	15.64	--	5,552.35
		6/24/2009	--	9.16	--	5,558.83
		9/15/2009	--	8.37	--	5,559.62
		12/7/2009	--	11.81	--	5,556.18
		3/3/2010	--	15.41	--	5,552.58
		6/21/2010	--	9.46	--	5,558.53
		9/9/2010	--	9.24	--	5,558.75
		1/13/2011	--	14.42	--	5,553.57
		3/2/2011	--	14.76	--	5,553.23
		6/15/2011	--	9.42	--	5,558.57
		12/15/2011	--	12.99	--	5,555.00
		6/14/2012	--	9.94	--	5,558.05
		12/4/2012	--	12.03	--	5,555.96
		6/18/2013	--	9.80	--	5,558.19
		12/17/2013	--	12.69	--	5,555.30
		6/18/2014	--	9.64	--	5,558.35
		12/10/2014	--	12.61	--	5,555.38
		6/8/2015	--	9.26	--	5,558.73
		12/14/2015	--	12.91	--	5,555.08
		2/19/2016	--	16.56	--	5,551.43
		6/13/2016	--	10.29	--	5,557.70
		12/13/2016	--	12.55	--	5,555.44
		6/28/2017	--	10.53	--	5,557.46
		12/5/2017	--	12.64	--	5,555.35
		6/27/2018	--	10.19	--	5,557.80
		12/11/2018	--	13.63	--	5,554.36
		6/18/2019	--	11.13	--	5,556.86
		12/9/2019	--	14.52	--	5,553.47
		6/11/2020	--	10.21	--	5,557.78
		12/16/2020	--	14.09	--	5,553.90
		6/21/2021	--	9.98	--	5,558.01
		12/16/2021	--	13.47	--	5,554.52
		7/6/2022	--	10.12	--	5,557.87
		12/30/2022	--	17.05	--	5,550.94
		6/28/2023	--	12.05	--	5,555.94
		12/29/2023	--	14.99	--	5,553.00



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Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-2R	5,567.99	6/28/2024	--	9.89	--	5,558.10
		12/28/2024	15.4	15.42	0.02	5,552.57
MW-3	Not Measured	6/7/1996	--	13.05	--	--
		5/5/1999	--	13.64	--	--
		6/29/2000	--	13.52	--	--
		5/17/2001	--	14.51	--	--
		9/24/2001	--	12.15	--	--
MW-3R	5,569.90	8/25/2003	--	11.81	--	5,558.09
		11/19/2003	--	12.28	--	5,557.62
		4/25/2006	--	12.56	--	5,557.34
		11/10/2006	--	--	--	--
		11/27/2006	--	12.60	--	5,557.30
		2/23/2007	--	14.33	--	5,555.57
		3/28/2007	--	15.83	--	5,554.07
		4/11/2007	--	14.99	--	5,554.91
		6/13/2007	--	--	--	--
		10/30/2007	--	--	--	--
		11/27/2007	--	13.14	--	5,556.76
		12/20/2007	--	14.25	--	5,555.65
		2/26/2008	--	--	--	--
		3/12/2008	--	15.23	--	5,554.67
		4/7/2008	--	--	--	--
		6/2/2008	--	12.07	--	5,557.83
		8/12/2008	--	11.15	--	5,558.75
		9/22/2008	--	11.86	--	5,558.04
		10/22/2008	--	11.80	--	5,558.10
		12/5/2008	--	13.23	--	5,556.67
		2/6/2009	--	14.82	--	5,555.08
		3/3/2009	--	16.37	--	5,553.53
		6/24/2009	--	11.52	--	5,558.38
		9/15/2009	--	10.66	--	5,559.24
		12/7/2009	--	12.63	--	5,557.27
		3/3/2010	--	16.09	--	5,553.81
		6/21/2010	--	11.59	--	5,558.31
		9/9/2010	--	11.18	--	5,558.72
		1/13/2011	--	16.77	--	5,553.13
	5,571.40*	3/2/2011	--	17.21	--	5,554.19
		6/15/2011	--	13.42	--	5,557.98
		12/15/2011	--	15.22	--	5,556.18
		6/14/2012	--	13.80	--	5,557.60
		12/4/2012	--	14.82	--	5,556.58
		6/18/2013	--	13.63	--	5,557.77
		12/17/2013	--	15.36	--	5,556.04
		6/18/2014	--	13.37	--	5,558.03
		12/10/2014	--	15.71	--	5,555.69



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Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-3R	5,571.40*	6/8/2015	--	13.22	--	5,558.18
		12/14/2015	--	14.94	--	5,556.46
		2/19/2016	--	18.38	--	5,553.02
		6/13/2016	--	14.38	--	5,557.02
		12/13/2016	--	15.25	--	5,556.15
		6/28/2017	--	14.07	--	5,557.33
		12/5/2017	--	15.34	--	5,556.06
		6/27/2018	--	14.06	--	5,557.34
		12/11/2018	--	16.14	--	5,555.26
		6/18/2019	--	15.23	--	5,556.17
		12/9/2019	--	--	--	--
		6/11/2020	--	15.03	--	5,556.37
		12/16/2020	--	--	--	--
		6/21/2021	--	--	--	--
		12/16/2021	--	--	--	--
		7/6/2022	Dry			
		12/30/2022	Dry			
		6/28/2023	Dry			
		12/29/2023	Dry			
		6/28/2024				
		12/28/2024				
MW-4	5,568.45	5/17/2001	--	10.88	--	5,557.57
		4/25/2006	--	11.11	--	5,557.34
		11/10/2006	--	--	--	--
		11/27/2006	--	12.41	--	5,556.04
		2/23/2007	--	13.62	--	5,554.83
		3/28/2007	--	16.17	--	5,552.28
		4/11/2007	--	13.34	--	5,555.11
		6/13/2007	--	9.87	--	5,558.58
		8/21/2007	--	9.35	--	5,559.10
		9/25/2007	--	9.24	--	5,559.21
		10/30/2007	--	9.75	--	5,558.70
		11/27/2007	--	13.43	--	5,555.02
		12/20/2007	--	14.91	--	5,553.54
		2/26/2008	--	--	--	--
		3/12/2008	--	15.09	--	5,553.36
		4/7/2008	--	--	--	--
		6/2/2008	--	9.59	--	5,558.86
		8/12/2008	--	8.97	--	5,559.48
		9/22/2008	--	9.96	--	5,558.49
		10/22/2008	--	8.53	--	5,559.92
		12/5/2008	--	13.21	--	5,555.24
		2/6/2009	--	14.35	--	5,554.10
		3/3/2009	--	17.06	--	5,551.39
		6/24/2009	--	8.10	--	5,560.35



TABLE 1
GROUNDWATER ELEVATION SUMMARY

Bruington Gas Com #1
Hilcorp Energy Company
San Juan, New Mexico

Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-4	5,568.45	9/15/2009	--	8.17	--	5,560.28
		12/7/2009	--	13.11	--	5,555.34
		3/3/2010	--	17.08	--	5,551.37
		6/21/2010	--	9.00	--	5,559.45
		9/9/2010	--	8.83	--	5,559.62
		1/13/2011	--	15.63	--	5,552.82
		3/2/2011	--	15.65	--	5,552.80
		6/15/2011	--	9.23	--	5,559.22
		12/15/2011	--	14.16	--	5,554.29
		6/14/2012	--	9.71	--	5,558.74
		12/4/2012	--	13.39	--	5,555.06
		6/18/2013	--	9.55	--	5,558.90
		12/17/2013	--	14.13	--	5,554.32
		6/18/2014	--	9.48	--	5,558.97
		12/10/2014	--	13.87	--	5,554.58
		6/8/2015	--	8.81	--	5,559.64
		12/14/2015	--	14.31	--	5,554.14
		2/19/2016	--	17.94	--	5,550.51
		6/13/2016	--	10.00	--	5,558.45
		12/13/2016	--	13.85	--	5,554.60
		6/28/2017	--	10.50	--	5,557.95
		12/5/2017	--	13.70	--	5,554.75
		6/27/2018	--	9.70	--	5,558.75
		12/11/2018	--	14.85	--	5,553.60
		6/18/2019	--	11.12	--	5,557.33
		12/9/2019	--	15.94	--	5,552.51
		6/11/2020	--	9.70	--	5,558.75
		12/16/2020	--	15.55	--	5,552.90
		6/21/2021	--	9.99	--	5,558.46
		12/16/2021	--	14.91	--	5,553.54
		7/6/2022	--	9.81	--	5,558.64
		12/30/2022	Dry			
		6/28/2023	--	11.19	--	5,557.26
		12/29/2023	--	15.84	--	5,552.61
MW-5	5,572.07	5/17/2001	--	16.00	--	5,556.07
		9/24/2001	--	13.70	--	5,558.37
		6/27/2002	--	13.83	--	5,558.24
		6/25/2003	--	15.73	--	5,556.34
		6/18/2004	--	15.82	--	5,556.25
		6/27/2005	--	14.21	--	5,557.86
		4/25/2006	--	16.21	--	5,555.86
		11/10/2006	--	--	--	--
		11/27/2006	--	15.24	--	5,556.83
		2/23/2007	--	18.92	--	5,553.15



TABLE 1
GROUNDWATER ELEVATION SUMMARY

Bruington Gas Com #1
Hilcorp Energy Company
San Juan, New Mexico

Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-5	5,572.07	3/28/2007	--	18.63	--	5,553.44
		4/11/2007	--	17.48	--	5,554.59
		6/13/2007	--	14.17	--	5,557.90
		8/21/2007	--	14.12	--	5,557.95
		9/25/2007	--	13.38	--	5,558.69
		10/30/2007	--	13.57	--	5,558.50
		11/27/2007	--	16.13	--	5,555.94
		12/20/2007	--	17.34	--	5,554.73
		2/26/2008	--	--	--	--
		3/12/2008	--	17.75	--	5,554.32
		4/7/2008	--	--	--	--
		6/2/2008	--	13.92	--	5,558.15
		8/12/2008	--	12.99	--	5,559.08
		9/22/2008	--	13.80	--	5,558.27
		10/22/2008	--	12.77	--	5,559.30
		12/5/2008	--	15.93	--	5,556.14
		2/6/2009	--	17.33	--	5,554.74
		3/3/2009	--	19.26	--	5,552.81
		6/24/2009	--	13.34	--	5,558.73
		9/15/2009	--	12.56	--	5,559.51
		12/7/2009	--	15.71	--	5,556.36
		3/3/2010	--	19.29	--	5,552.78
		6/21/2010	--	13.61	--	5,558.46
		9/9/2010	--	13.03	--	5,559.04
		1/13/2011	--	18.08	--	5,553.99
		3/2/2011	--	18.41	--	5,553.66
		6/15/2011	--	13.89	--	5,558.18
		12/15/2011	--	16.75	--	5,555.32
		6/14/2012	--	14.23	--	5,557.84
		12/4/2012	--	16.11	--	5,555.96
		6/18/2013	--	14.05	--	5,558.02
		12/17/2013	--	16.74	--	5,555.33
		6/18/2014	--	13.91	--	5,558.16
		12/10/2014	--	16.52	--	5,555.55
		6/8/2015	--	13.61	--	5,558.46
		12/14/2015	--	16.78	--	5,555.29
		2/19/2016	--	19.93	--	5,552.14
		6/13/2016	--	14.72	--	5,557.35
		12/13/2016	--	16.61	--	5,555.46
		6/28/2017	--	14.59	--	5,557.48
		12/5/2017	--	16.65	--	5,555.42
		6/27/2018	--	14.21	--	5,557.86
		12/11/2018	--	17.55	--	5,554.52
		6/18/2019	--	15.70	--	5,556.37
		12/9/2019	--	18.22	--	5,553.85



TABLE 1
GROUNDWATER ELEVATION SUMMARY

Bruington Gas Com #1
Hilcorp Energy Company
San Juan, New Mexico

Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-5	5,572.07	6/11/2020	--	15.12	--	5,556.95
		12/16/2020	--	17.95	--	5,554.12
		6/21/2021	--	14.65	--	5,557.42
		12/16/2021	--	17.38	--	5,554.69
		7/6/2022	--	15.33	--	5,556.74
		12/30/2022	--	19.23	--	5,552.84
		6/28/2023	--	16.00	--	5,556.07
		12/29/2023	--	18.63	--	5,553.44
		2/6/2024	--	20.73	--	5,551.34
		6/28/2024	--	14.76	--	5,557.31
		12/28/2024	--	19.16	--	5,552.91
MW-6	5,574.33	5/17/2001	--	19.47	--	5,554.86
		9/24/2001	--	14.46	--	5,559.87
		6/27/2002	--	16.68	--	5,557.65
		6/25/2003	--	18.94	--	5,555.39
		6/18/2004	--	18.71	--	5,555.62
		6/27/2005	--	17.09	--	5,557.24
		4/25/2006	--	19.28	--	5,555.05
		11/10/2006	--	--	--	--
		11/27/2006	--	17.08	--	5,557.25
		2/23/2007	--	18.92	--	5,555.41
		3/28/2007	--	20.36	--	5,553.97
		4/11/2007	--	19.69	--	5,554.64
		6/13/2007	--	16.87	--	5,557.46
		8/21/2007	--	16.04	--	5,558.29
		9/25/2007	--	15.98	--	5,558.35
		10/30/2007	--	15.91	--	5,558.42
		11/27/2007	--	17.79	--	5,556.54
		12/20/2007	--	18.83	--	5,555.50
		2/26/2008	--	--	--	--
		3/12/2008	--	19.42	--	5,554.91
		4/7/2008	--	--	--	--
		6/2/2008	--	16.61	--	5,557.72
		8/12/2008	--	15.61	--	5,558.72
		9/22/2008	--	16.15	--	5,558.18
		10/22/2008	--	15.49	--	5,558.84
		12/5/2008	--	17.70	--	5,556.63
		2/6/2009	--	19.33	--	5,555.00
		3/3/2009	--	20.67	--	5,553.66
		6/24/2009	--	16.18	--	5,558.15
		9/15/2009	--	15.25	--	5,559.08
		12/7/2009	--	17.52	--	5,556.81
		3/3/2010	--	20.69	--	5,553.64
		6/21/2010	--	16.44	--	5,557.89
		9/9/2010	--	15.60	--	5,558.73



TABLE 1
GROUNDWATER ELEVATION SUMMARY

Bruington Gas Com #1
Hilcorp Energy Company
San Juan, New Mexico

Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-6	5,574.33	1/13/2011	--	19.55	--	5,554.78
		3/2/2011	--	20.08	--	5,554.25
		6/15/2011	--	16.55	--	5,557.78
		12/15/2011	--	18.32	--	5,556.01
		6/14/2012	--	17.05	--	5,557.28
		12/4/2012	--	17.92	--	5,556.41
		6/18/2013	--	16.91	--	5,557.42
		12/17/2013	--	18.48	--	5,555.85
		6/18/2014	--	16.68	--	5,557.65
		12/10/2014	--	18.28	--	5,556.05
		6/8/2015	--	16.53	--	5,557.80
		12/14/2015	--	18.30	--	5,556.03
		2/19/2016	--	21.38	--	5,552.95
		6/13/2016	--	18.56	--	5,555.77
		12/13/2016	--	18.38	--	5,555.95
		6/28/2017	--	17.23	--	5,557.10
		12/5/2017	--	18.45	--	5,555.88
		6/27/2018	--	17.90	--	5,556.43
		12/11/2018	--	19.24	--	5,555.09
		6/18/2019	--	18.49	--	5,555.84
		12/9/2019	--	20.12	--	5,554.21
		6/11/2020	--	18.18	--	5,556.15
		12/16/2020	--	19.80	--	5,554.53
		6/21/2021	--	17.65	--	5,556.68
		12/16/2021	--	19.21	--	5,555.12
		7/6/2022	--	17.98	--	5,556.35
		12/30/2022	--	21.88	--	5,552.45
		6/28/2023	--	19.13	--	5,555.20
		12/29/2023	20.62	20.63	0.01	5,553.71
		2/6/2024	22.46	22.64	0.18	5,551.83
MW-7	5,573.88	8/25/2003	--	17.93	--	5,555.95
		6/18/2004	--	18.87	--	5,555.01
		6/27/2005	--	17.40	--	5,556.48
		4/25/2006	--	19.14	--	5,554.74
		11/10/2006	--	--	--	--
		11/27/2006	--	16.94	--	5,556.94
		2/23/2007	--	17.71	--	5,556.17
		3/28/2007	--	18.62	--	5,555.26
		4/11/2007	--	18.63	--	5,555.25
		6/13/2007	--	16.75	--	5,557.13
		8/21/2007	--	15.86	--	5,558.02
		9/25/2007	--	15.65	--	5,558.23
		10/30/2007	--	15.46	--	5,558.42
		11/27/2007	--	16.46	--	5,557.42
		12/20/2007	--	17.14	--	5,556.74



TABLE 1
GROUNDWATER ELEVATION SUMMARY

Bruington Gas Com #1
Hilcorp Energy Company
San Juan, New Mexico

Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-7	5,573.88	2/26/2008	--	--	--	--
		3/12/2008	--	17.23	--	5,556.65
		4/7/2008	--	--	--	--
		6/2/2008	--	16.22	--	5,557.66
		8/12/2008	--	15.30	--	5,558.58
		9/22/2008	--	15.47	--	5,558.41
		10/22/2008	--	15.22	--	5,558.66
		12/5/2008	--	16.23	--	5,557.65
		2/6/2009	--	17.85	--	5,556.03
		3/3/2009	--	18.60	--	5,555.28
		6/24/2009	--	16.38	--	5,557.50
		9/15/2009	--	15.21	--	5,558.67
		12/7/2009	--	16.05	--	5,557.83
		3/3/2010	--	18.64	--	5,555.24
		6/21/2010	--	16.58	--	5,557.30
		9/9/2010	--	15.49	--	5,558.39
		1/13/2011	--	17.78	--	5,556.10
		3/2/2011	--	18.54	--	5,555.34
		6/15/2011	--	16.72	--	5,557.16
		12/15/2011	--	16.75	--	5,557.13
		6/14/2012	--	17.23	--	5,556.65
		12/4/2012	--	16.53	--	5,557.35
		6/18/2013	--	17.07	--	5,556.81
		12/17/2013	--	17.02	--	5,556.86
		6/18/2014	--	16.75	--	5,557.13
		12/10/2014	--	16.92	--	5,556.96
		6/8/2015	--	16.74	--	5,557.14
		12/14/2015	--	16.72	--	5,557.16
		2/19/2016	--	19.37	--	5,554.51
		6/13/2016	--	17.82	--	5,556.06
		12/13/2016	--	17.56	--	5,556.32
		6/28/2017	--	17.15	--	5,556.73
		12/5/2017	--	17.24	--	5,556.64
		6/27/2018	--	17.32	--	5,556.56
		12/11/2018	--	18.13	--	5,555.75
		6/18/2019	--	18.68	--	5,555.20
		12/9/2019	--	18.70	--	5,555.18
		6/11/2020	18.56	19.70	1.14	5,555.09
		12/16/2020	--	18.37	--	5,555.51
		6/21/2021	--	18.15	--	5,555.73
		12/16/2021	--	--	--	--
		7/6/2022	--	21.53	--	5,552.35
		12/30/2022	--	--	--	--
		6/28/2023	--	--	--	--
		12/29/2023	--	--	--	--



TABLE 1
GROUNDWATER ELEVATION SUMMARY
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan, New Mexico

Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-7	5,573.88	2/6/2024	--	20.78	--	5,553.10
		6/28/2024	--	17.98	--	5,555.90
		12/28/2024	--	17.98	--	5,555.90
MW-8	5,576.04	6/13/2007	--	19.19	--	5,556.85
		8/21/2007	--	18.30	--	5,557.74
		9/25/2007	--	18.00	--	5,558.04
		10/30/2007	--	15.46	--	5,560.58
		11/27/2007	--	18.30	--	5,557.74
		12/20/2007	--	18.81	--	5,557.23
		2/26/2008	--	--	--	--
		3/12/2008	--	18.92	--	5,557.12
		4/7/2008	--	--	--	--
		6/2/2008	--	18.23	--	5,557.81
		8/12/2008	--	17.52	--	5,558.52
		9/22/2008	--	17.56	--	5,558.48
		10/22/2008	--	17.47	--	5,558.57
		12/5/2008	--	17.99	--	5,558.05
		2/6/2009	--	19.50	--	5,556.54
		3/3/2009	--	20.03	--	5,556.01
		6/24/2009	--	19.00	--	5,557.04
		9/15/2009	--	17.74	--	5,558.30
		12/7/2009	--	17.81	--	5,558.23
		3/3/2010	--	20.11	--	5,555.93
		6/21/2010	--	19.31	--	5,556.73
		9/9/2010	--	18.02	--	5,558.02
		1/13/2011	--	19.35	--	5,556.69
		3/2/2011	--	21.09	--	5,554.95
		6/15/2011	--	19.38	--	5,556.66
		12/15/2011	--	18.53	--	5,557.51
		6/14/2012	--	19.93	--	5,556.11
		12/4/2012	--	18.34	--	5,557.70
		6/18/2013	--	19.75	--	5,556.29
		12/17/2013	--	18.72	--	5,557.32
		6/18/2014	--	19.39	--	5,556.65
		12/10/2014	--	17.01	--	5,559.03
		6/8/2015	--	19.51	--	5,556.53
		12/14/2015	--	18.37	--	5,557.67
		2/19/2016	--	20.62	--	5,555.42
		6/13/2016	--	20.41	--	5,555.63
		12/13/2016	--	18.89	--	5,557.15
		6/28/2017	--	19.78	--	5,556.26
		12/5/2017	--	19.10	--	5,556.94
		6/27/2018	--	20.22	--	5,555.82
		12/11/2018	--	18.89	--	5,557.15
		6/18/2019	--	21.75	--	5,554.29



TABLE 1
GROUNDWATER ELEVATION SUMMARY

Bruington Gas Com #1
Hilcorp Energy Company
San Juan, New Mexico

Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-8	5,576.08	12/9/2019	--	20.43	--	5,555.61
		6/11/2020	22.35	22.71	0.36	5,553.62
		12/16/2020	--	20.08	--	5,555.96
		6/21/2021	--	21.22	--	5,554.82
		12/16/2021	Trace	19.65	Trace	5,556.39
		7/6/2022	--	--	--	--
		12/30/2022	--	21.27	--	5,554.77
		6/28/2023	--	23.19	--	5,552.85
		12/29/2023	--	21.33	--	5,554.71
		2/6/2024	--	22.15	--	5,553.89
		6/28/2024	Trace	21.63	Trace	5,554.41
		12/28/2024	--	20.88	--	5,555.16
MW-9	5,576.86	1/13/2011	Dry			
		3/2/2011	--	21.06	--	5,555.80
		6/15/2011	--	18.78	--	5,558.08
		12/15/2011	--	16.97	--	5,559.89
		6/14/2012	--	18.73	--	5,558.13
		12/4/2012	--	17.09	--	5,559.77
		6/18/2013	--	19.05	--	5,557.81
		12/17/2013	--	15.44	--	5,561.42
		6/18/2014	--	18.80	--	5,558.06
		12/10/2014	--	17.09	--	5,559.77
		6/8/2015	--	18.11	--	5,558.75
		12/14/2015	--	16.35	--	5,560.51
		2/19/2016	--	17.81	--	5,559.05
		6/13/2016	--	18.00	--	5,558.86
		12/13/2016	--	16.40	--	5,560.46
		6/28/2017	--	16.75	--	5,560.11
		12/5/2017	--	15.75	--	5,561.11
		6/27/2018	--	17.39	--	5,559.47
		12/11/2018	--	14.57	--	5,562.29
		6/18/2019	--	16.00	--	5,560.86
		12/9/2019	--	14.62	--	5,562.24
		6/11/2020	--	16.55	--	5,560.31
		12/16/2020	--	13.71	--	5,563.15
		6/21/2021	--	15.06	--	5,561.80
		12/16/2021	--	12.82	--	5,564.04
		7/6/2022	--	14.66	--	5,562.20
		12/30/2022	--	13.52	--	5,563.34
		6/28/2023	--	14.71	--	5,562.15
		12/29/2023	--	13.76	--	5,563.10
		6/28/2024	--	15.28	--	5,561.58
		12/28/2024	--	14.01	--	5,562.85



TABLE 1 GROUNDWATER ELEVATION SUMMARY Bruington Gas Com #1 Hilcorp Energy Company San Juan, New Mexico						
Well Number	Top of Casing Elevation (feet AMSL)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)

Notes:

- *: Top of Casing Modified, New Elevation
- : indicates no GWEL or PSH measured
- AMSL: above mean sea level
- BTOC: below top of casing
- Trace: Trace amounts of product detected
- When product is present, the groundwater elevation is corrected using an estimated density correction factor of 0.7996



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-1	7/6/1996	ND	ND	ND	ND
MW-1R	5/5/1999	16.5	26.0	8.1	78.2
	6/29/2000	17.0	ND	130.0	455.5
	5/17/2001	29.0	19.0	33.0	127.0
	9/24/2001	5.8	0.5	15.0	36.0
	7/27/2002	ND	ND	17.0	52.1
	6/25/2003	3.1	ND	ND	ND
	8/25/2003	ND	ND	2.2	0.9
	4/25/2006	1.0	1.3	1.8	5.9
	11/27/2006	<1.0	<1.0	<1.0	<3.0
	3/28/2007	<1.0	<1.0	<1.0	<2.0
	6/13/2007	<1.0	<1.0	<1.0	<2.0
	9/25/2007	<1.0	1.2	<1.0	<2.0
	3/12/2008	<1.0	<1.0	<1.0	<2.0
	6/2/2008	<1.0	<1.0	<1.0	<2.0
	9/22/2008	<1.0	<1.0	<1.0	<2.0
	12/5/2008	<1.0	<1.0	<1.0	<2.0
	3/3/2009	<1.0	<1.0	<1.0	<2.0
	6/24/2009	<1.0	<1.0	<1.0	<3.0
	9/15/2009	<1.0	<1.0	<1.0	<2.0
	12/7/2009	<1.0	<1.0	<1.0	<2.0
	3/3/2010	<1.0	<1.0	<1.0	<2.0
	6/21/2010	<1.0	<1.0	<1.0	<2.0
	9/9/2010	<0.5	< 5.0	<0.5	<1.5
	1/13/2011	<0.5	< 5.0	<0.5	<1.5
	6/15/2011	<0.5	< 5.0	1.9	<1.5
	12/15/2011	<0.5	< 5.0	<0.5	<1.5
	12/4/2012	<0.5	< 5.0	<0.5	<1.5
	12/17/2013	<0.5	<5.0	<0.5	<1.5
	12/10/2014	<0.5	<5.0	<0.5	<1.5
	12/14/2015	<0.5	<5.0	<0.5	<1.5
	12/13/2016	<0.5	<1.0	<0.5	<1.5
	12/5/2017	<0.500	<1.00	<0.500	<1.50
	12/11/2018	<1.0	<1.0	<1.0	<2.0
	6/18/2019	<1.0	<1.0	<1.0	<1.5
	12/16/2020	<1.0	<1.0	<1.0	<2.0
	12/16/2021	<1.0	<1.0	<1.0	<2.0



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-1R	12/30/2022	<1.0	<1.0	<1.0	<2.0
	6/28/2023	2.3	<1.0	<1.0	<2.0
	12/29/2023	<1.0	<1.0	<1.0	<2.0
	6/28/2024	<1.0	<1.0	<1.0	<1.5
	12/28/2024	<1.0	<1.0	<1.0	<1.5
MW-2	6/7/1996	347	29	156	1,580
	6/27/1997	429	68	46	402
MW-2R	6/12/1998	13,440	13,330	1,030	6,040
	5/5/1999	1,020	554	175	679
	6/29/2000	7,600	2,600	630	4,210
	5/17/2001	1,700	320	390	1,620
	9/24/2001	15,000	1,200	880	5,900
	6/27/2002	13,000	1,100	680	4,120
	6/25/2003	3,700	1,000	380	2,500
	6/18/2004	5,500	1,400	710	3,500
	6/27/2005	16,000	1,900	900	5,400
	4/25/2006	5,000	1,100	700	3,800
	11/27/2006	12,000	1,600	690	3,900
	3/28/2007	4,300	1,000	810	6,000
	6/13/2007	13,000	1,100	720	4,000
	9/25/2007	18,000	1,900	990	5,500
	3/12/2008	2,800	890	750	5,300
	6/2/2008	5,900	430	510	2,200
	9/22/2008	18,000	920	950	4,900
	12/5/2008	20,000	1,700	1,100	5,300
	3/3/2009	5,500	1,400	470	2,900
	6/24/2009	18,000	2,200	970	6,500
	9/15/2009	18,000	760	850	4,400
	12/7/2009	11,000	1,000	720	3,600
	3/3/2010	2,100	460	410	2,400
	6/21/2010	9,500	960	630	3,100
	9/9/2010	19,000	530	940	3,200
	1/13/2011	16,000	2,500	940	4,900
	6/15/2011	20,000	<2,500	870	4,200
	12/15/2011	11,000	<2,500	710	3,000
	12/4/2012	11,000	1,400	590	2,700
	12/17/2013	13,000	2,300	620	4,400



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-2R	12/10/2014	18,000	1,800	860	3,300
	12/14/2015	13,400	2,570	908	6,270
	12/13/2016	14,000	2,190	926	5,600
	12/5/2017	14,200	1,380	837	4,200
	12/11/2018	15,000	1,800	740	4,200
	6/18/2019	14,000	1,800	700	4,300
	12/16/2020	12,000	5,300	1,100	11,000
	12/16/2021	9,100	2,500	920	7,300
	12/30/2022	7,300	1,700	580	5,100
	6/28/2023	11,000	5,600	2,100	18,000
	12/29/2023	Not sampled, sheen present			
	6/28/2024	9,800 P2	5,000 P2	1,400 P2	12,000 P2
	12/28/2024	Not sampled, PSH			
MW-3	6/7/1996	ND	1.8	ND	ND
	5/5/1999	73.2	38.3	31.2	200.1
	6/29/2000	87.0	ND	3.4	8.3
	5/17/2001	ND	0.6	0.7	ND
	9/24/2001	ND	ND	ND	ND
MW-3R	8/25/2003	ND	ND	1.3	ND
	11/19/2003	ND	ND	1.4	ND
	4/25/2006	<1.0	<1.0	<1.0	<3.0
	11/27/2006	<1.0	<1.0	<1.0	<2.0
	3/28/2007	<1.0	<1.0	<1.0	<2.0
	3/12/2008	<1.0	<1.0	<1.0	<2.0
	6/2/2008	<1.0	<1.0	<1.0	<2.0
	9/22/2008	<1.0	<1.0	<1.0	<2.0
	12/5/2008	<1.0	<1.0	<1.0	<2.0
	3/3/2009	<1.0	<1.0	<1.0	<2.0
	6/24/2009	7.2	<1.0	<1.0	<3.0
	9/15/2009	<1.0	<1.0	<1.0	<2.0
	12/7/2009	<1.0	<1.0	<1.0	<2.0
	3/3/2010	<1.0	<1.0	<1.0	<2.0
	6/21/2010	75	<1.0	<1.0	<2.0
	9/9/2010	94	50	4.4	30
	1/13/2011	<0.5	<5.0	<0.5	<1.5
	6/15/2011	<0.5	<5.0	<0.5	<1.5
	12/15/2011	<0.5	<5.0	<0.5	<1.5
	12/4/2012	<0.5	<5.0	<0.5	<1.5



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-3R	12/17/2013	<0.5	<5.0	<0.5	<1.5
	12/10/2014	<0.5	<5.0	<0.5	<1.5
	12/14/2015	<0.5	<5.0	<0.5	<1.5
	12/13/2016	<0.5	<1.0	<0.5	<1.5
	12/5/2017	<0.500	<1.00	<0.500	<1.50
	12/11/2018	<1.0	<1.0	<1.0	<2.0
	6/18/2019	<1.0	<1.0	<1.0	<1.5
	12/16/2020	NS	NS	NS	NS
	12/16/2021	NS	NS	NS	NS
	12/30/2022	NS	NS	NS	NS
	6/28/2023	NS	NS	NS	NS
	12/29/2023	NS	NS	NS	NS
	6/28/2024	NS	NS	NS	NS
MW-4	5/17/2001	ND	ND	ND	ND
	4/25/2006	ND	ND	ND	ND
	11/27/2006	<1.0	<1.0	<1.0	<3.0
	3/28/2007	1.8	<1.0	<1.0	<2.0
	6/13/2007	<1.0	<1.0	<1.0	<2.0
	9/25/2007	<1.0	<1.0	<1.0	<2.0
	3/12/2008	<1.0	<1.0	<1.0	<2.0
	6/2/2008	<1.0	<1.0	<1.0	<2.0
	9/22/2008	<1.0	<1.0	<1.0	<2.0
	12/5/2008	<1.0	<1.0	<1.0	<2.0
	3/3/2009	<1.0	<1.0	<1.0	<2.0
	6/24/2009	<1.0	<1.0	<1.0	<2.0
	9/15/2009	<1.0	<1.0	<1.0	<2.0
	12/7/2009	<1.0	<1.0	<1.0	<2.0
	3/3/2010	<1.0	<1.0	<1.0	<2.0
	6/21/2010	<1.0	<1.0	<1.0	<2.0
	9/9/2010	<0.50	< 5.0	<0.50	<1.5
	1/13/2011	<0.5	<5.0	<0.5	<1.5
	6/15/2011	<0.5	<5.0	<0.5	<1.5
	12/15/2011	<0.5	<5.0	<0.5	<1.5
	12/4/2012	<0.5	<5.0	<0.5	<1.5
	12/17/2013	<0.5	<5.0	<0.5	<1.5
	12/10/2014	<0.5	<5.0	<0.5	<1.5
	12/14/2015	<0.5	<5.0	<0.5	<1.5



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-4	12/13/2016	<0.5	<1.0	<0.5	<1.5
	12/5/2017	<0.500	<1.00	<0.500	<1.50
	12/11/2018	<1.0	<1.0	<1.0	<2.0
	6/18/2019	<1.0	<1.0	<1.0	<1.5
	12/16/2020	<1.0	<1.0	<1.0	<2.0
	12/16/2021	<1.0	<1.0	<1.0	<2.0
	12/30/2022	NS	NS	NS	NS
	6/28/2023	<1.0	<1.0	<1.0	<2.0
	12/29/2023	<1.0	<1.0	<1.0	<2.0
	6/28/2024	NS	NS	NS	NS
	12/28/2024	NS	NS	NS	NS
MW-5	5/17/2001	25,000	620	870	6,610
	9/24/2001	26,000	110	470	6,900
	6/27/2002	26,000	280	900	6,670
	6/25/2003	26,000	ND	ND	4,400
	6/18/2004	26,000	ND	1,100	3,400
	6/27/2005	29,000	ND	920	3,400
	4/25/2006	28,000	ND	1,600	2,700
	11/27/2006	22,000	<250	630	1,700
	3/28/2007	30,000	590	1,700	4,600
	6/13/2007	32,000	91	940	2,000
	9/25/2007	25,000	170	620	1,700
	3/12/2008	28,000	110	1,200	2,300
	6/2/2008	25,000	<100	1,100	1,300
	9/22/2008	20,000	<200	760	1,100
	12/5/2008	24,000	<100	580	1,400
	3/3/2009	9,800	<100	450	920
	6/24/2009	25,000	46	40	1,400
	9/15/2009	27,000	<400	770	2,000
	12/7/2009	23,000	<400	690	1,400
	3/3/2010	16,000	<100	350	710
	6/21/2010	18,000	<100	430	890
	9/9/2010	25,000	130	510	1,600
	1/13/2011	17,000	<500	360	900
	6/15/2011	27,000	<500	<50	1,400
	12/15/2011	15,000	<500	310	810
	12/4/2012	32,000	<120	250	1,500
	12/17/2013	21,000	110	290	1,100



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-5	12/10/2014	24,000	<250	610	1,400
	12/14/2015	26,700	161	538	1,050
	12/13/2016	19,200	112	60.1	1,340
	12/5/2017	13,800	128	92.4	571
	12/11/2018	21,000	550	630	2,000
	6/18/2019	27,000	320	510	1,300
	12/16/2020	14,000	350	670	2,500
	12/16/2021	18,000	350	850	2,500
	12/30/2022	21,000	450	730	2,100
	6/28/2023	16,000	210	900	4,000
	12/29/2023	27,000	440	970	3,400
	6/28/2024	11000 P2	140 P2	230 P2	1,300 P2
	12/28/2024	8,700 P2	360 P2	290 P2	960 P2
MW-6	5/17/2001	28,000	15,000	1,000	9,400
	9/24/2001	22,000	6,000	1,100	6,900
	6/27/2002	28,000	16,000	990	9,800
	6/25/2003	22,000	16,000	ND	6,300
	6/18/2004	23,000	19,000	1,000	8,800
	6/27/2005	28,000	20,000	1,200	9,600
	4/25/2006	26,000	25,000	1,700	8,900
	11/27/2006	22,000	23,000	990	9,700
	3/28/2007	25,000	27,000	1,900	19,000
	6/13/2007	21,000	19,000	780	7,900
	9/25/2007	27,000	21,000	1,200	11,000
	3/12/2008	21,000	21,000	1,200	11,000
	6/2/2008	19,000	16,000	870	9,000
	9/22/2008	15,000	14,000	770	8,500
	12/5/2008	28,000	27,000	1,100	12,000
	3/3/2009	19,000	20,000	880	9,300
	6/24/2009	23,000	18,000	900	9,200
	9/15/2009	18,000	14,000	740	7,700
	12/7/2009	19,000	19,000	1,000	10,000
	3/3/2010	15,000	16,000	860	9,300
	6/21/2010	18,000	15,000	680	7,000
	9/9/2010	21,000	16,000	880	8,300
	1/13/2011	19,000	18,000	1,000	10,000
	6/15/2011	21,000	17,000	730	7,500



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-6	12/15/2011	25,000	22,000	960	9,700
	12/4/2012	24,000	20,000	950	9,400
	12/17/2013	21,000	20,000	920	10,000
	12/10/2014	18,000	19,000	1,100	12,000
	12/14/2015	20,000	18,200	969	9,650
	12/13/2016	21,300	21,000	1,110	11,700
	12/5/2017	15,900	15,900	898	9,370
	12/11/2018	16,000	14,000	340	3,800
	6/18/2019	14,000	13,000	430	4,700
	12/16/2020	21,000	18,000	1,300	13,000
	12/16/2021	19,000	18,000	2,100	23,000
	12/30/2022	19,000	21,000	980	11,000
	6/28/2023	18,000	8,600	990	11,000
	12/29/2023	Not sampled, PSH present			
MW-7	8/25/2003	18,000	11,000	930	8,200
	6/18/2004	11,000	7,800	670	5,000
	6/27/2005	14,000	8,700	880	5,000
	4/25/2006	19,000	6,600	1,200	5,100
	11/27/2006	6,100	4,400	420	2,500
	3/28/2007	11,000	9,500	100	7,500
	6/13/2007	3,800	2,000	320	1,700
	9/25/2007	2,900	2,400	210	1,400
	3/12/2008	14,000	9,200	830	4,800
	6/2/2008	8,800	5,300	560	3,100
	9/22/2008	7,100	4,600	450	2,800
	12/5/2008	11,000	9,300	680	5,200
	3/3/2009	11,000	7,800	660	4,500
	6/24/2009	21,000	14,000	640	6,400
	9/15/2009	15,000	4,900	640	3,600
	12/7/2009	9,600	7,700	530	4,200
	3/3/2010	10,000	7,000	560	4,000
	6/21/2010	4,100	2,900	280	1,500
	9/9/2010	3,000	2,300	280	1,400
	1/13/2011	8,500	5,600	500	2,500
	6/15/2011	16,000	8,500	760	4,700
	12/15/2011	8,900	4,300	510	2,700
	12/4/2012	16,000	8,900	810	4,600



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-7	12/17/2013	6,200	3,400	390	1,900
	12/10/2014	7,200	4,800	500	2,600
	12/14/2015	7,650	4,710	382	1,930
	12/13/2016	7,520	3,700	399	1,240
	12/5/2017	5,550	1,840	346	1,360
	12/11/2018	7,500	1,900	290	1,200
	6/18/2019	4,200	890	160	460
	12/16/2020	11,000	11,000	760	5,500
	12/16/2021	NS	NS	NS	NS
	12/30/2022	NS	NS	NS	NS
	6/28/2023	NS	NS	NS	NS
	12/29/2023	NS	NS	NS	NS
	6/28/2024	NS	NS	NS	NS
MW-8	6/13/2007	24,000	24,000	350	10,000
	9/25/2007	18,000	4,000	960	9,100
	3/12/2008	730	64	ND	2,000
	6/2/2008	12,000	7,100	490	5,300
	9/22/2008	15,000	13,000	520	7,200
	12/5/2008	18,000	15,000	810	7,700
	3/3/2009	16,000	12,000	660	5,700
	6/24/2009	21,000	13,000	690	5,700
	9/15/2009	15,000	7,800	590	4,900
	12/7/2009	10,000	1,300	570	2,500
	3/3/2010	14,000	7,800	610	3,900
	6/21/2010	17,000	15,000	630	6,600
	9/9/2010	17,000	7,800	760	4,600
	1/13/2011	18,000	10,000	730	4,700
	6/15/2011	12,000	5,300	460	2,300
	12/15/2011	16,000	10,000	810	6,000
	12/4/2012	13,000	6,300	630	3,300
	12/17/2013	18,000	18,000	720	7,400
	12/10/2014	18,000	15,000	870	7,100
	12/14/2015	18,300	18,900	727	7,600
	12/13/2016	15,300	12,700	448	3,970
	12/5/2017	12,100	11,600	767	6,160
	12/11/2018	12,000	14,000	510	6,300
	6/18/2019	420	780	33	280



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
 Bruington Gas Com #1
 Hilcorp Energy Company
 San Juan County, New Mexico

Groundwater Sample Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-8	12/16/2020	2,300	5,100	240	3,500
	12/16/2021	NS	NS	NS	NS
	12/30/2022	6,900	12,000	680	9,900
	6/28/2023	7,100	12,000	50	11,000
	12/29/2023	Not sampled, sheen present			
	6/28/2024	Not sampled, sheen present			
	12/28/2024	9,400 P2	13,000 P2	360 P2	12,000 P2
MW-9	3/10/2011	<0.5	<5.0	<0.5	<1.5
	6/15/2011	<0.5	<5.0	<0.5	<1.5
	12/16/2013	5.8	<5.0	<0.5	<1.5
	12/10/2014	<0.5	<5.0	<0.5	<1.5
	12/14/2015	285	<5.0	<0.5	<1.5
	2/19/2016	3.48	<5.0	<0.5	<1.5
	12/13/2016	72.7	<1.0	<0.5	<1.5
	6/28/2017	2.80	<1.00	<0.500	<1.50
	12/5/2017	75.0	1.48	<0.500	<1.50
	6/27/2018	150	<1.0	<1.0	<1.5
	12/11/2018	110	<1.0	<1.0	<2.0
	6/18/2019	1.1	<1.0	<1.0	<1.5
	12/16/2020	<1.0	<1.0	<1.0	<2.0
	12/16/2021	<5.0	<5.0	<5.0	<10
	12/30/2022	2.9	<2.0	<2.0	<4.0
	6/28/2023	<2.0	<2.0	<2.0	<4.0
	12/29/2023	180	<2.0	<2.0	<4.0
	6/28/2024	<1.0 P2	<1.0 P2	<1.0 P2	<1.5 P2
	12/28/2024	<10	<10	<10	<15

Notes:

P2: The sample was received with pH>2

µg/L: micrograms per liter

ND: not detected above laboratory reporting limit

NMWQCC: New Mexico Water Quality Control Commission

NS: not sampled

PSH: phase separated hydrocarbons

<: indicates result is less than the stated laboratory reporting limit

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



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ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499
Generated 7/15/2024 4:11:06 PM Revision 1

JOB DESCRIPTION

Bruington GC #1

JOB NUMBER

885-7332-1

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



Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Generated
7/15/2024 4:11:06 PM
Revision 1

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Laboratory Job ID: 885-7332-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-7332-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
P2	The sample was received with pH>2

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: Bruington GC #1

Job ID: 885-7332-1

Job ID: 885-7332-1Eurofins Albuquerque

Job Narrative
885-7332-1

REVISION

The report being provided is a revision of the original report sent on 7/12/2024. The report (revision 1) is being revised due to P-flag needing to be added to 7332-4.

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/2/2024 7:35 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 2.0°C.

GC/MS VOA

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: Bruington GC #1

Job ID: 885-7332-1

Client Sample ID: MW-1

Lab Sample ID: 885-7332-1

Date Collected: 06/28/24 14:30

Matrix: Water

Date Received: 07/02/24 07:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			07/12/24 02:20	1
Ethylbenzene	ND		1.0	ug/L			07/12/24 02:20	1
Toluene	ND		1.0	ug/L			07/12/24 02:20	1
Xylenes, Total	ND		1.5	ug/L			07/12/24 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				07/12/24 02:20	1
4-Bromofluorobenzene (Surr)	105		70 - 130				07/12/24 02:20	1
Dibromofluoromethane (Surr)	93		70 - 130				07/12/24 02:20	1
Toluene-d8 (Surr)	100		70 - 130				07/12/24 02:20	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-7332-1

Client Sample ID: MW-2

Lab Sample ID: 885-7332-2

Date Collected: 06/28/24 13:25

Matrix: Water

Date Received: 07/02/24 07:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	9800	P2	200	ug/L			07/12/24 02:45	200	
Ethylbenzene	1400	P2	200	ug/L			07/12/24 02:45	200	
Toluene	5000	P2	200	ug/L			07/12/24 02:45	200	
Xylenes, Total	12000	P2	300	ug/L			07/12/24 02:45	200	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1,2-Dichloroethane-d4 (Surr)	86	P2	70 - 130				07/12/24 02:45	200	
4-Bromofluorobenzene (Surr)	110	P2	70 - 130				07/12/24 02:45	200	
Dibromofluoromethane (Surr)	88	P2	70 - 130				07/12/24 02:45	200	
Toluene-d8 (Surr)	111	P2	70 - 130				07/12/24 02:45	200	

Client Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-7332-1

Client Sample ID: MW-5

Lab Sample ID: 885-7332-3

Date Collected: 06/28/24 15:25

Matrix: Water

Date Received: 07/02/24 07:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	11000	P2	500	ug/L			07/12/24 03:09	500	
Ethylbenzene	230	P2	50	ug/L			07/12/24 03:34	50	
Toluene	140	P2	50	ug/L			07/12/24 03:34	50	
Xylenes, Total	1300	P2	75	ug/L			07/12/24 03:34	50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	80	P2	70 - 130				07/12/24 03:34	50	
4-Bromofluorobenzene (Surr)	112	P2	70 - 130				07/12/24 03:34	50	
Dibromofluoromethane (Surr)	83	P2	70 - 130				07/12/24 03:34	50	
Toluene-d8 (Surr)	121	P2	70 - 130				07/12/24 03:34	50	

Client Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-7332-1

Client Sample ID: MW-9

Lab Sample ID: 885-7332-4

Date Collected: 06/28/24 17:30

Matrix: Water

Date Received: 07/02/24 07:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	ND	P2	1.0	ug/L			07/12/24 03:58	1	
Ethylbenzene	ND	P2	1.0	ug/L			07/12/24 03:58	1	
Toluene	ND	P2	1.0	ug/L			07/12/24 03:58	1	
Xylenes, Total	ND	P2	1.5	ug/L			07/12/24 03:58	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1,2-Dichloroethane-d4 (Surr)	94	P2	70 - 130				07/12/24 03:58	1	
4-Bromofluorobenzene (Surr)	104	P2	70 - 130				07/12/24 03:58	1	
Dibromofluoromethane (Surr)	90	P2	70 - 130				07/12/24 03:58	1	
Toluene-d8 (Surr)	102	P2	70 - 130				07/12/24 03:58	1	

QC Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-7332-1

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

Lab Sample ID: MB 885-8229/5

Matrix: Water

Analysis Batch: 8229

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			07/11/24 12:32	1
Ethylbenzene	ND		1.0	ug/L			07/11/24 12:32	1
Toluene	ND		1.0	ug/L			07/11/24 12:32	1
Xylenes, Total	ND		1.5	ug/L			07/11/24 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		07/11/24 12:32	1
4-Bromofluorobenzene (Surr)	104		70 - 130		07/11/24 12:32	1
Dibromofluoromethane (Surr)	92		70 - 130		07/11/24 12:32	1
Toluene-d8 (Surr)	103		70 - 130		07/11/24 12:32	1

Lab Sample ID: LCS 885-8229/4

Matrix: Water

Analysis Batch: 8229

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	19.9		ug/L		99	70 - 130
Toluene	20.2	22.6		ug/L		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-7332-1

GC/MS VOA

Analysis Batch: 8229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-7332-1	MW-1	Total/NA	Water	8260B	
885-7332-2	MW-2	Total/NA	Water	8260B	
885-7332-3	MW-5	Total/NA	Water	8260B	
885-7332-3	MW-5	Total/NA	Water	8260B	
885-7332-4	MW-9	Total/NA	Water	8260B	
MB 885-8229/5	Method Blank	Total/NA	Water	8260B	
LCS 885-8229/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-7332-1

Client Sample ID: MW-1
Date Collected: 06/28/24 14:30
Date Received: 07/02/24 07:35

Lab Sample ID: 885-7332-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	8229	RA	EET ALB	07/12/24 02:20

Client Sample ID: MW-2
Date Collected: 06/28/24 13:25
Date Received: 07/02/24 07:35

Lab Sample ID: 885-7332-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		200	8229	RA	EET ALB	07/12/24 02:45

Client Sample ID: MW-5
Date Collected: 06/28/24 15:25
Date Received: 07/02/24 07:35

Lab Sample ID: 885-7332-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		500	8229	RA	EET ALB	07/12/24 03:09
Total/NA	Analysis	8260B		50	8229	RA	EET ALB	07/12/24 03:34

Client Sample ID: MW-9
Date Collected: 06/28/24 17:30
Date Received: 07/02/24 07:35

Lab Sample ID: 885-7332-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	8229	RA	EET ALB	07/12/24 03:58

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-7332-1

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
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Toluene
8260B		Water	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-7332 COC

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-481-2543

email or Fax#: Branden@hilcorp.com

QA/QC Package

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ AZ Compliance

☐ NELAC ☐ Other☐ EDD (Type)

Date	Time	Matrix	Sample Name
------	------	--------	-------------

Water	MW-1
-------	------

1-28-1325	Water	MW-2
-----------	-------	------

Water	MW-3
-------	------

Water	MW-4
-------	------

Water	MW-5
100	100

11/1/0	11/1/0	11/1/0
--------	--------	--------

[illegible][illegible]

Water	MMW 0
-------	-------

Date:	Time:	Relinquished by:
-------	-------	------------------

11/12/20

Date:	Time:	Relinquished by:
-------	-------	------------------

7/12 1720 25

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

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-7332-1

Login Number: 7332

List Number: 1

Creator: Dominguez, Desiree

List Source: Eurofins Albuquerque

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/8/2025 10:28:51 AM

JOB DESCRIPTION

Bruington GC #1

JOB NUMBER

885-17731-1

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



Generated
1/8/2025 10:28:51 AM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Laboratory Job ID: 885-17731-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
P2	The sample was received with pH>2

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: Bruington GC #1

Job ID: 885-17731-1

Job ID: 885-17731-1Eurofins Albuquerque

Job Narrative
885-17731-1

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 12/31/2024 7:35 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 0.0°C.

GC/MS VOA

Method 8260B: The following samples was diluted due to the nature of the sample matrix: MW-9 (885-17731-4).

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: Bruington GC #1

Job ID: 885-17731-1

Client Sample ID: MW-1
Date Collected: 12/28/24 13:00
Date Received: 12/31/24 07:35

Lab Sample ID: 885-17731-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		1.0	ug/L			01/03/25 20:47	1	
Ethylbenzene	ND		1.0	ug/L			01/03/25 20:47	1	
Toluene	ND		1.0	ug/L			01/03/25 20:47	1	
Xylenes, Total	ND		1.5	ug/L			01/03/25 20:47	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	103		70 - 130				01/03/25 20:47	1	
4-Bromofluorobenzene (Surr)	98		70 - 130				01/03/25 20:47	1	
Dibromofluoromethane (Surr)	105		70 - 130				01/03/25 20:47	1	
Toluene-d8 (Surr)	97		70 - 130				01/03/25 20:47	1	

Client Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

Client Sample ID: MW-5
Date Collected: 12/28/24 14:00
Date Received: 12/31/24 07:35

Lab Sample ID: 885-17731-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	8700	P2	200	ug/L			01/03/25 21:12	200	
Ethylbenzene	290	P2	200	ug/L			01/03/25 21:12	200	
Toluene	360	P2	200	ug/L			01/03/25 21:12	200	
Xylenes, Total	960	P2	300	ug/L			01/03/25 21:12	200	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	98	P2	70 - 130				01/03/25 21:12	200	
4-Bromofluorobenzene (Surr)	100	P2	70 - 130				01/03/25 21:12	200	
Dibromofluoromethane (Surr)	105	P2	70 - 130				01/03/25 21:12	200	
Toluene-d8 (Surr)	102	P2	70 - 130				01/03/25 21:12	200	

Client Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

Client Sample ID: MW-8
Date Collected: 12/28/24 14:45
Date Received: 12/31/24 07:35

Lab Sample ID: 885-17731-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	9400	P2	200	ug/L			01/03/25 21:37	200	
Ethylbenzene	360	P2	200	ug/L			01/03/25 21:37	200	
Toluene	13000	P2	200	ug/L			01/03/25 21:37	200	
Xylenes, Total	12000	P2	300	ug/L			01/03/25 21:37	200	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	101	P2	70 - 130				01/03/25 21:37	200	
4-Bromofluorobenzene (Surr)	99	P2	70 - 130				01/03/25 21:37	200	
Dibromofluoromethane (Surr)	105	P2	70 - 130				01/03/25 21:37	200	
Toluene-d8 (Surr)	98	P2	70 - 130				01/03/25 21:37	200	

Client Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

Client Sample ID: MW-9
Date Collected: 12/28/24 15:45
Date Received: 12/31/24 07:35

Lab Sample ID: 885-17731-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND	P2	10	ug/L			01/04/25 05:49	10	
Ethylbenzene	ND	P2	10	ug/L			01/04/25 05:49	10	
Toluene	ND	P2	10	ug/L			01/04/25 05:49	10	
Xylenes, Total	ND	P2	15	ug/L			01/04/25 05:49	10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	97	P2	70 - 130				01/04/25 05:49	10	
4-Bromofluorobenzene (Surr)	97	P2	70 - 130				01/04/25 05:49	10	
Dibromofluoromethane (Surr)	102	P2	70 - 130				01/04/25 05:49	10	
Toluene-d8 (Surr)	96	P2	70 - 130				01/04/25 05:49	10	

QC Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

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

Lab Sample ID: MB 885-18799/5

Matrix: Water

Analysis Batch: 18799

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			01/03/25 11:14	1
Ethylbenzene	ND		1.0	ug/L			01/03/25 11:14	1
Toluene	ND		1.0	ug/L			01/03/25 11:14	1
Xylenes, Total	ND		1.5	ug/L			01/03/25 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		01/03/25 11:14	1
4-Bromofluorobenzene (Surr)	99		70 - 130		01/03/25 11:14	1
Dibromofluoromethane (Surr)	108		70 - 130		01/03/25 11:14	1
Toluene-d8 (Surr)	98		70 - 130		01/03/25 11:14	1

Lab Sample ID: LCS 885-18799/4

Matrix: Water

Analysis Batch: 18799

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	21.4		ug/L		106	70 - 130
Toluene	20.2	21.4		ug/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 885-18817/34

Matrix: Water

Analysis Batch: 18817

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			01/03/25 23:40	1
Ethylbenzene	ND		1.0	ug/L			01/03/25 23:40	1
Toluene	ND		1.0	ug/L			01/03/25 23:40	1
Xylenes, Total	ND		1.5	ug/L			01/03/25 23:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		01/03/25 23:40	1
4-Bromofluorobenzene (Surr)	98		70 - 130		01/03/25 23:40	1
Dibromofluoromethane (Surr)	104		70 - 130		01/03/25 23:40	1
Toluene-d8 (Surr)	97		70 - 130		01/03/25 23:40	1

Lab Sample ID: LCS 885-18817/33

Matrix: Water

Analysis Batch: 18817

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	20.8		ug/L		104	70 - 130
Toluene	20.2	21.3		ug/L		105	70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

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

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
Toluene-d8 (Surr)	98		70 - 130

- 1
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- 9
- 10
- 11

QC Association Summary

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

GC/MS VOA

Analysis Batch: 18799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17731-1	MW-1	Total/NA	Water	8260B	
885-17731-2	MW-5	Total/NA	Water	8260B	
885-17731-3	MW-8	Total/NA	Water	8260B	
MB 885-18799/5	Method Blank	Total/NA	Water	8260B	
LCS 885-18799/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 18817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17731-4	MW-9	Total/NA	Water	8260B	
MB 885-18817/34	Method Blank	Total/NA	Water	8260B	
LCS 885-18817/33	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

Client Sample ID: MW-1**Lab Sample ID: 885-17731-1****Date Collected: 12/28/24 13:00****Matrix: Water****Date Received: 12/31/24 07:35**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18799	CM	EET ALB	01/03/25 20:47

Client Sample ID: MW-5**Lab Sample ID: 885-17731-2****Date Collected: 12/28/24 14:00****Matrix: Water****Date Received: 12/31/24 07:35**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		200	18799	CM	EET ALB	01/03/25 21:12

Client Sample ID: MW-8**Lab Sample ID: 885-17731-3****Date Collected: 12/28/24 14:45****Matrix: Water****Date Received: 12/31/24 07:35**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		200	18799	CM	EET ALB	01/03/25 21:37

Client Sample ID: MW-9**Lab Sample ID: 885-17731-4****Date Collected: 12/28/24 15:45****Matrix: Water****Date Received: 12/31/24 07:35**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	18817	CM	EET ALB	01/04/25 05:49

Laboratory References:

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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Bruington GC #1

Job ID: 885-17731-1

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
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Toluene
8260B		Water	Xylenes, Total
Oregon	NELAP	NM100001	02-25-25

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-17731-1

Login Number: 17731

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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 446001

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 446001
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2024 Annual Groundwater Monitoring Report for Bruington Gas Com#1: content satisfactory. 1. Continue enhanced aerobic bioremediation by maintaining ORC socks in monitoring wells MW-2R, MW-5, and MW-6, MW-7, and MW-8. 2. Continue field screening of ORP and DO during semiannual gauging and annual sampling events to assess the effectiveness of ORC® socks in promoting aerobic conditions. 3. Repair the damaged riser pipe on MW-6 to allow for future sampling and evaluation 4. Continue semiannual gauging and annual sampling of all monitoring wells. 5. Please upload all relevant permits obtained from OSE for the P&A of wells MW-1R, MW-3R and MW-4 6. Submit the 2025 Annual Report to OCD, no later than April 1, 2026.	4/28/2025