REVIEWED By Mike Buchanan at 11:08 am, Apr 23, 2025



March 12, 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 Nell Hall #1 San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident Number: NAUTOFAB000417 NMOCD Administrative Order: 3RP-090

To Whom it May Concern:

Review of the 2024 Annual Groundwater Monitoring Report for Nell Hall #1: content satisfactory 1. Continue to collect groundwater samples at MW-6, MW-7, MW-8 on a semi-annual basis for BTEX and dissolved iron as prescribed in report. 2. As monitored natural attenuation has demonstrated to achieve remediation and only residual concentrations remain, continue as prescribed in this report. 3. Please submit the status update and 2025 Annual Groundwater Monitoring Report to

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company OCD no later than April his 2024 Annual Groundwater Monitoring Report to the New Mexico O^{1, 2026.} on (NMOCD) to document groundwater monitoring activities conducted at the Nell Hall #1 natural gas production site (Site) during 2024. The Site is located on private land, approximately 2 miles west of Aztec, New Mexico in Section 7, Township 30 North, Range 11 West, San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

Petroleum-impacted soil was first discovered at the Site during the closure of an unlined dehydrator pit in 1994 by Conoco, Inc. (operator of the Site at the time and later ConocoPhillips Company). At the time of discovery, three monitoring wells, MW-1, MW-2, and MW-3, were installed at the Site to assess groundwater conditions and determine if groundwater had been impacted by the release. Conoco, Inc. also installed eight air-sparge wells (SP-1 through SP-8, see Figure 2) to introduce air into the water-bearing zone and enhance the volatilization and biodegradation of petroleum hydrocarbons in groundwater; however, no information or data in the historical Site reports indicated whether the air sparge wells were ever operated as intended.

Drought conditions in the 1990s and early 2000s resulted in a water table decline to an elevation below the screened intervals of the monitoring wells. As such, these wells have not been sampled since the early 2000s. In response, monitoring wells MW-4, MW-5, and MW-6 were installed in 2004 with 30 to 35 feet of slotted screen to accommodate significant water table fluctuations caused by seasonal variation and/or nearby irrigation. To further evaluate subsurface soil and groundwater quality downgradient of MW-6, two additional wells (MW-7 and MW-8) were installed in 2015.

Hilcorp acquired the Site from ConocoPhillips Company in August 2017 and continued quarterly gauging and sampling of the monitoring network. Following recommendations presented in the *2021 Annual Groundwater Monitoring Report*, the NMOCD approved reducing the sampling frequency to semiannual for wells MW-6 through MW-8, effective in 2024, until all constituents of concern meet applicable standards. Additionally, based on recommendations presented in the *2022 Annual Groundwater Monitoring Report*, on May 21, 2024, the NMOCD further approved

SITE GROUNDWATER CLEANUP STANDARDS

The NMOCD requires groundwater quality standards be met as presented by the New Mexico Water Quality Control Commission (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 constituents of concern (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

GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Groundwater level measurements and samples were collected in January 2024 from wells MW-4 through MW-8. In October 2024, groundwater measurements and samples were collected from MW-6 through MW-8, in accordance with NMOCD approvals received on May 21, 2024. Static groundwater levels were recorded using a Keck oil/water interface probe. The probe was decontaminated with Alconox[®] soap and rinsed with distilled water prior to each measurement to prevent cross-contamination.

Based on semiannual measurements, groundwater elevations fluctuate seasonally and generally increase during the summer and fall months, likely due to nearby field irrigation. This pattern is evident in the October 2024 groundwater elevations, which are approximately 10 feet higher than those recorded in January 2024. Measured depths-to-groundwater and calculated groundwater elevations are presented in Table 1. The inferred groundwater flow direction has historically varied throughout the year. In January 2024 (Figure 3), groundwater flowed predominantly toward the southeast, while in October 2024 (Figure 4), the flow shifted slightly to the southwest. These seasonal variations in both elevation and flow direction are consistent with irrigation-related recharge and localized hydrologic influences.

GROUNDWATER SAMPLING

Groundwater from each monitoring well was purged and sampled using a disposable bailer. Purging was accomplished by removing stagnant groundwater from the monitoring well prior to collecting a sample. Field measurements of groundwater quality parameters, including temperature, pH, electrical conductivity, and total dissolved solids 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. Containers were immediately sealed and packed on ice to preserve samples. Samples were submitted to Eurofins Environmental Testing Laboratory (Eurofins) in Albuquerque, New Mexico, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United State Environmental Protection Agency (EPA) Method 8260B, 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

E N S O L U M

sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

GROUNDWATER ANALYTICAL RESULTS

During the January 2024 semiannual groundwater monitoring event, well MW-4 was dry and could not be sampled. Well MW-6 purged dry during sampling and did not recharge sufficiently for sample collection. Groundwater samples were successfully collected from wells MW-5, MW-7, and MW-8. In October 2024, samples were collected from wells MW-6, MW-7, and MW-8.

Benzene was detected in MW-6 during the October 2024 sampling event at a concentration of 0.019 mg/L, exceeding the NMWQCC groundwater standard of 0.005 mg/L. Ethylbenzene was also detected in MW-6 at a concentration of 0.0094 mg/L, but remained below the 0.70 mg/L standard. Toluene and total xylenes were not detected above method reporting limits in any sampled wells during 2024.

Dissolved iron exceeded the NMWQCC secondary standard of 1.0 mg/L in MW-6, with a concentration of 3.8 mg/L in October 2024. Dissolved iron was not detected above the standard in MW-7 or MW-8 during either sampling event.

These results indicate a localized exceedance of benzene and secondary parameters in MW-6, while all other samples remained below the NMWQCC groundwater standards. Analytical results are summarized in Table 3 and depicted on Figure 5. Complete laboratory reports are provided in Appendix A.

CONCLUSIONS

Overall, BTEX concentrations in groundwater have decreased over time at the Site. BTEX compounds have not been detected above laboratory reporting limits in wells MW-7 and MW-8 in more than seven years. In 2024, no BTEX constituents were detected above reporting limits in these wells. Well MW-6 continues to exhibit benzene concentrations exceeding NMWQCC standards; however, concentrations have steadily declined in this well since 2013. In October 2024, benzene was detected in MW-6 at 0.019 mg/L, above the 0.005 mg/L NMWQCC standard, but remains significantly lower than historical peak concentrations.

Dissolved iron concentrations have consistently exceeded the NMWQCC standard in groundwater from well MW-6 since it was first analyzed in 2009. Similar to benzene, dissolved iron concentrations in MW-6 have steadily declined since 2013. The elevated concentrations are likely a result of low-oxygen, reducing groundwater conditions in this area, which are commonly associated with petroleum hydrocarbon degradation. This is further evidenced by the absence of elevated iron concentrations in wells outside the source area and plume extent. As groundwater conditions at the Site gradually return to natural aerobic conditions, dissolved iron is expected to precipitate and decrease in concentration over time.

Lastly, groundwater downgradient of MW-6 continues to exhibit BTEX and dissolved iron concentrations below NMWQCC standards, indicating the groundwater plume remains stable, localized to the vicinity of MW-6, and has not migrated downgradient. Overall, Site conditions demonstrate a continued decrease in the magnitude of the petroleum-hydrocarbon plume, supporting natural attenuation as an effective and appropriate long-term remedial strategy.

RECOMMENDATIONS

Based on historical data, dissolved phase petroleum hydrocarbon constituents have been reduced at the Site and are currently only present in well MW-6 at concentrations exceeding NMWQCC standards. Based on Site data, it is believed monitored natural attenuation remains an

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appropriate remedial action to manage the residual benzene and iron concentrations present in well MW-6.

Based on current and historical data gathered at the Site, Ensolum proposes the following actions:

 Collect groundwater sample from wells MW-6, MW-7, and MW-8 on a semiannual basis for BTEX and dissolved iron constituents. Wells MW-7 and MW-8 will serve as points of compliance at the Site to ensure benzene and dissolved iron concentrations are not migrating off-Site. Once concentrations are compliant with NMWQCC standards, sampling frequency will be increased to quarterly until eight consecutive quarters are below applicable standards.

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

Stuart Hyde, PG ^(licensed in TX & WA) Senior Geologist (970) 903-1607 shyde@ensolum.com

L E N S O L U M

Attachments:

- Figure 2 Site Map
- Figure 3 January 2024 Groundwater Elevation Map
- Figure 4 October 2024 Groundwater Elevation Map
- Figure 5 2024 Groundwater Analytical Results
- Table 1
 Groundwater Elevation Summary
- Table 2
 Groundwater Quality Measurement
- Table 3Groundwater Analytical Results
- Appendix A Laboratory Analytical Reports



FIGURES

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Sources: Google Earth



TABLES

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TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		5/10/2005	DRY		
		10/20/2005	19.25	78.70	
		11/22/2005	24.15	73.80	
		5/17/2006			
		11/15/2006	21.40	76.55	
		2/19/2007	DRY		
		5/14/2007	24.85	73.10	
		8/22/2007	24.61	73.34	
		11/6/2007	20.87	77.08	
		3/17/2008	DRY		
		10/22/2008	19.38	78.57	
		3/30/2009	28.25	69.70	
		9/30/2009	16.56	81.39	
		3/31/2010	DRY		
		6/9/2010	24.16	73.79	
		9/27/2010	20.00	77.95	
		3/16/2011	DRY		
MW-1	97.95	6/21/2011	26.80	71.15	
		9/27/2011	17.85	80.10	
		12/13/2011	25.39	72.56	
		3/7/2012	DRY		
		6/4/2012	26.40	71.55	
		9/20/2012	17.57	80.38	
		12/28/2012	DRY		
		3/28/2013	DRY		
		6/12/2013	24.33	73.62	
		9/11/2013	17.59	80.36	
		12/13/2013	27.45	70.50	
		3/20/2014	DRY		
		6/18/2014	25.18	72.77	
		9/15/2014	18.68	79.27	
		12/15/2014	DRY		
		3/16/2015	DRY		
		6/15/2015	27.85	70.10	
		9/16/2015	21.71	76.24	

TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		11/30/2015	26.14	71.81	
		3/30/2016	DRY		
		9/8/2016	18.46	79.49	
		11/29/2016	25.21	72.74	
		6/14/2017	25.05	72.90	
		9/25/2017	19.44	78.51	
		12/5/2017	27.29	70.66	
		3/15/2018	28.36	69.59	
		6/27/2018	24.84	73.11	
		3/14/2019	28.24	69.71	
		5/24/2019	28.24	69.71	
		8/27/2019	DRY		
MW-1	97.95	12/17/2019	27.80	70.15	
		2/19/2020	28.25	69.70	
		4/28/2020	28.26	69.69	
		8/25/2020	25.17	72.78	
		10/28/2020	22.34	75.61	
		3/24/2021	28.24	69.71	
		6/28/2021	DRY		
		9/22/2021	DRY		
		11/15/2021	26.79	71.16	
		2/9/2022	NM		
		4/12/2022	NM		
		7/27/2022	NM		
		10/13/2022	NM		
		5/10/2005	DRY		
		10/20/2005	18.81	78.35	
		11/22/2005	23.74	73.42	
		5/17/2006	22.06	75.10	
MW-2	97.16	11/15/2006	21.01	76.15	
		2/19/2007	DRY		
		5/14/2007	DRY		
		8/22/2007	18.03	79.13	
		11/6/2007	20.43	76.73	
		3/17/2008	DRY		

TABLE 1GROUNDWATER ELEVATIONSNell Hall #1Hilcorp Energy CompanySan Juan County, New Mexico					
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		10/22/2008	18.83	78.33	
		3/30/2009	27.15	70.01	
		9/30/2009	16.01	81.15	
		3/31/2010	DRY		
		6/9/2010	23.36	73.80	
		9/27/2010	19.42	77.74	
		3/16/2011	DRY		
		6/21/2011	26.43	70.73	
		9/27/2011	17.28	79.88	
		12/13/2011	25.10	72.06	
		3/7/2012	DRY		
		6/4/2012	25.17	71.99	
		9/20/2012	17.30	79.86	
		12/28/2012	DRY		
		3/28/2013	DRY		
		6/12/2013	23.78	73.38	
		9/11/2013	17.22	79.94	
MW-2	97.16	12/13/2013	27.00	70.16	
		3/20/2014	DRY		
		6/18/2014	24.78	72.38	
		9/15/2014	18.18	78.98	
		12/15/2014	DRY		
		3/16/2015	DRY		
		6/15/2015	26.65	70.51	
		9/16/2015	21.37	75.79	
		11/30/2015	26.04	71.12	
		3/30/2016	27.31	69.85	
		6/22/2016	25.45	71.71	
		9/8/2016	18.09	79.07	
		11/29/2016	24.94	72.22	
		6/14/2017	24.85	72.31	
		9/25/2017	18.96	78.20	
		12/5/2017	27.04	70.12	
		3/15/2018	DRY		
		6/27/2018	24.61	72.55	

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Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		3/14/2019	27.16	70.00	
		5/24/2019	27.21	69.95	
		8/27/2019	24.74	72.42	
		12/17/2019	27.05	70.11	
		2/19/2020	27.14	70.02	
		4/28/2020	27.20	69.96	
		8/24/2020	24.61	72.55	
MW-2	97.16	10/28/2020	21.89	75.27	
10100-2	07.10	3/24/2021	27.18	69.98	
		6/28/2021	DRY		
		9/22/2021	DRY		
		11/15/2021	26.86	70.30	
		2/9/2022	NM		
		4/12/2022	NM		
		7/27/2022	NM		
		10/13/2022	NM		
		5/10/2005	DRY		
		10/20/2005	19.36	78.41	
		11/22/2005	24.24	73.53	
		5/17/2006	22.82	74.95	
		11/15/2006	21.53	76.24	
		2/19/2007	DRY		
		5/14/2007	DRY		
		8/22/2007	18.36	79.41	
		11/6/2007	20.95	76.82	
MW-3	97.77	3/17/2008	DRY		
		10/22/2008	19.34	78.43	
		3/30/2009	DRY		
		9/30/2009	DRY		
		3/31/2010	DRY		
		6/9/2010	23.87	73.90	
		9/27/2010	19.93	77.84	
		3/16/2011	DRY		
		6/21/2011	27.06	70.71	
		9/27/2011	17.82	79.95	

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Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		12/13/2011	25.66	72.11	
		3/7/2012	DRY		
		6/4/2012	25.53	72.24	
		9/20/2012	17.97	79.80	
		12/28/2012	DRY		
		3/28/2013	DRY		
		6/12/2013	24.36	73.41	
		9/11/2013	17.84	79.93	
		12/13/2013	DRY		
		3/20/2014	DRY		
		6/18/2014	25.36	72.41	
		9/15/2014	18.79	78.98	
		12/15/2014	DRY		
		3/16/2015	DRY		
		6/15/2015	27.20	70.57	
		9/16/2015	22.05	75.72	
		11/30/2015	26.68	71.09	
MW-3	97.77	3/30/2016	DRY		
		9/8/2016	18.75	79.02	
		11/29/2016	25.53	72.24	
		6/14/2017	25.52	72.25	
		9/25/2017	19.62	78.15	
		12/5/2017	27.31	70.46	
		3/15/2018	DRY		
		6/27/2018	25.27	72.50	
		3/14/2019	27.40	70.37	
		5/24/2019	DRY		
		8/27/2019	25.42	72.35	
		12/17/2019	27.30	70.47	
		2/19/2020	27.37	70.40	
		4/28/2020	DRY		
		8/24/2020	25.20	72.57	
		10/28/2020	22.49	75.28	
		3/24/2021	DRY		
		6/28/2021	DRY		

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Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		9/22/2021	DRY		
		11/15/2021	27.24	70.53	
MW-3	97.77	2/9/2022	NM		
14144-2	97.77	4/12/2022	NM		
		7/27/2022	NM		
		10/13/2022	NM		
		3/8/2004	36.04	61.71	
		7/19/2004	8.44	89.31	
		10/27/2004	19.69	78.06	
		12/27/2004	27.58	70.17	
		5/10/2005	DRY		
		10/20/2005	18.87	78.88	
		11/22/2005	23.93	73.82	
		5/17/2006			
		11/15/2006	21.02	76.73	
		2/19/2007	34.40	63.35	
		5/14/2007	27.56	70.19	
		8/22/2007	18.18	79.57	
		11/6/2007	20.48	77.27	
		3/17/2008	36.08	61.67	
MW-4	97.75	10/22/2008	18.96	78.79	
		3/30/2009	37.36	60.39	
		9/30/2009	16.15	81.60	
		3/31/2010	DRY		
		6/9/2010	23.61	74.14	
		9/27/2010	19.61	78.14	
		3/16/2011	DRY		
		6/21/2011	26.79	70.96	
		9/27/2011	17.47	80.28	
		12/13/2011	25.35	72.40	
		3/7/2012	35.73	62.02	
		6/4/2012	25.39	72.36	
		9/20/2012	17.43	80.32	
		12/28/2012	28.02	69.73	
		3/28/2013	DRY		

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Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		6/12/2013	24.06	73.69	
		9/11/2013	17.40	80.35	
		12/13/2013	27.90	69.85	
		3/20/2014	DRY		
		6/18/2014	25.10	72.65	
		9/15/2014	18.43	79.32	
		12/15/2014	28.01	69.74	
		3/16/2015	DRY		
		6/15/2015	26.91	70.84	
		9/16/2015	21.62	76.13	
		11/30/2015	26.28	71.47	
		3/30/2016	37.54	60.21	
		6/22/2016	25.59	72.16	
		9/8/2016	18.29	79.46	
		11/29/2016	25.31	72.44	
		6/14/2017	25.17	72.58	
		9/25/2017	19.24	78.51	
MW-4	97.75	12/5/2017	27.64	70.11	
		3/15/2018	37.54	60.21	
		6/27/2018	24.84	72.91	
		10/10/2018	22.70	75.05	
		12/12/2018	29.98	67.77	
		3/14/2019	37.43	60.32	
		5/23/2019	33.96	63.79	
		8/27/2019	25.17	72.58	
		12/16/2019	29.15	68.60	
		2/20/2020	36.64	61.11	
		4/29/2020	DRY		
		8/25/2020	24.74	73.01	
		10/29/2020	22.13	75.62	
		3/24/2021	37.40	60.35	
		6/28/2021	26.33	71.42	
		9/22/2021	23.45	74.30	
		11/15/2021	26.77	70.98	
		2/9/2022	37.37	60.38	

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Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		4/12/2022	DRY		
		7/27/2022	24.58	73.17	
		10/13/2022	25.15	72.60	
MW-4	97.75	1/31/2023	37.35	60.40	
IAI AA - 11	91.15	5/11/2023	37.39	60.36	
		7/18/2023	33.74	64.01	
		10/19/2023	28.46	69.29	
		1/17/2024	37.32	60.43	
		3/8/2004	37.19	61.62	
		7/19/2004	9.38	89.43	
		10/27/2004	21.07	77.74	
		12/27/2004	28.99	69.82	
		5/10/2005	39.79	59.02	
		10/20/2005	20.34	78.47	
		11/22/2005	25.23	73.58	
		5/17/2006	23.80	75.01	
		11/15/2006	22.51	76.30	
		2/19/2007	35.31	63.50	
		5/14/2007	27.59	71.22	
		8/22/2007	19.45	79.36	
MW-5	98.81	11/6/2007	21.94	76.87	
0-99191	90.01	3/17/2008	37.33	61.48	
		10/22/2008	19.30	79.51	
		3/30/2009	38.68	60.13	
		9/30/2009	17.54	81.27	
		3/31/2010	39.05	59.76	
		6/9/2010	24.91	73.90	
		9/27/2010	20.92	77.89	
		3/16/2011	39.25	59.56	
		6/21/2011	28.02	70.79	
		9/27/2011	18.79	80.02	
		12/13/2011	26.62	72.19	
		3/7/2012	37.00	61.81	
		6/4/2012	26.57	72.24	

TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		9/20/2012	18.92	79.89	
		12/28/2012	29.37	69.44	
		3/28/2013	DRY		
		6/12/2013	25.39	73.42	
		9/11/2013	18.84	79.97	
		12/13/2013	29.20	69.61	
		3/20/2014	39.83	58.98	
		6/18/2014	26.35	72.46	
		9/15/2014	19.76	79.05	
		12/15/2014	29.37	69.44	
		3/16/2015	39.55	59.26	
		6/15/2015	28.22	70.59	
		9/16/2015	23.02	75.79	
		11/30/2015	27.61	71.20	
		3/30/2016	41.26	57.55	
		6/22/2016	26.91	71.90	
		9/8/2016	19.72	79.09	
MW-5	98.81	11/29/2016	26.48	72.33	
		6/14/2017	26.48	72.33	
		9/25/2017	20.58	78.23	
		12/5/2017	29.09	69.72	
		3/15/2018	40.67	58.14	
		6/27/2018	26.24	72.57	
		10/10/2018	23.44	75.37	
		12/12/2018	31.25	67.56	
		3/14/2019	41.70	57.11	
		5/24/2019	34.36	64.45	
		8/28/2019	26.41	72.40	
		12/17/2019	30.58	68.23	
		2/21/2020	38.03	60.78	
		4/29/2020	39.43	59.38	
		8/25/2020	26.17	72.64	
		10/29/2020	23.49	75.32	
		3/24/2021	41.78	57.03	
		6/28/2021	27.68	71.13	

TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		9/22/2021	24.80	74.01	
		11/15/2021	28.50	70.31	
		2/9/2022	38.95	59.86	
		4/12/2022	42.47	56.34	
		7/27/2022	25.56	73.25	
MW-5	98.81	10/13/2022	26.63	72.18	
		1/31/2023	38.87	59.94	
		5/11/2023	42.47	56.34	
		7/18/2023	33.23	65.58	
		10/19/2023	29.80	69.01	
		1/17/2024	38.86	59.95	
		3/8/2004	36.27	62.14	
		7/19/2004	9.43	88.98	
		10/27/2004	19.33	79.08	
		12/27/2004	28.62	69.79	
		5/10/2005	DRY		
		10/20/2005	19.94	78.47	
		11/22/2005	25.02	73.39	
		5/17/2006			
		11/15/2006	21.12	77.29	
		2/19/2007	34.82	63.59	
		5/14/2007	26.12	72.29	
MW-6	98.41	8/22/2007	19.41	79.00	
		11/6/2007	21.51	76.90	
		3/17/2008	36.34	62.07	
		10/22/2008	19.99	78.42	
		3/30/2009	37.04	61.37	
		9/30/2009	17.26	81.15	
		3/31/2010	37.24	61.17	
		6/9/2010	24.43	73.98	
		9/27/2010	20.79	77.62	
		3/16/2011	DRY		
		6/21/2011	27.56	70.85	
		9/27/2011	18.58	79.83	

TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)	
		12/13/2011	26.32	72.09	
		3/7/2012	36.01	62.40	
		6/4/2012	26.55	71.86	
		9/20/2012	18.25	80.16	
		12/28/2012	29.11	69.30	
		3/28/2013	DRY		
		6/12/2013	24.78	73.63	
		9/11/2013	18.26	80.15	
		12/13/2013	28.84	69.57	
		3/20/2014	37.47	60.94	
		6/18/2014	25.93	72.48	
		9/15/2014	19.35	79.06	
		12/15/2014	29.02	69.39	
		3/16/2015	37.37	61.04	
		6/15/2015	27.92	70.49	
		9/16/2015	22.40	76.01	
		11/30/2015	27.22	71.19	
MW-6	98.41	3/30/2016	37.81	60.60	
		6/22/2016	26.75	71.66	
		9/8/2016	19.27	79.14	
		11/29/2016	26.20	72.21	
		6/14/2017	25.97	72.44	
		9/25/2017	20.04	78.37	
		12/5/2017	28.63	69.78	
		3/15/2018	37.76	60.65	
		6/27/2018	25.67	72.74	
		10/10/2018	22.97	75.44	
		12/12/2018	31.12	67.29	
		3/14/2019	37.84	60.57	
		5/23/2019	35.26	63.15	
		8/27/2019	25.83	72.58	
		12/16/2019	29.41	69.00	
		2/20/2020	36.41	62.00	
		4/29/2020	DRY		
		8/25/2020	25.70	72.71	

TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico									
Well Identification	Top of Casing Elevation (feet) (1)	Elevation Date Groundwater (feet) (1) (feet BTOC)							
		10/28/2020	22.85	75.56					
		3/24/2021	34.74	63.67					
		6/28/2021	27.08	71.33					
		9/22/2021	24.30	74.11					
		11/15/2021	27.63	70.78					
		2/9/2022	36.93	61.48					
		4/12/2022	37.86	60.55					
MW-6	98.41	7/27/2022	25.38	73.03					
		10/13/2022	26.03	72.38					
		1/31/2023	36.78	61.63					
		5/11/2023	37.88	60.53					
		7/18/2023	35.26	63.15					
		10/19/2023	29.43	68.98					
		1/17/2024	36.65	61.76					
		10/17/2024	26.32	72.09					
		9/16/2015	21.70	75.90					
		11/30/2015	26.78	70.82					
		3/30/2016	40.46	57.14					
		6/22/2016	25.98	71.62					
		9/8/2016	18.55	79.05					
		11/29/2016	25.73	71.87					
		6/14/2017	25.35	72.25					
		9/25/2017	19.44	78.16					
		12/5/2017	28.21	69.39					
MW-7	97.60	3/15/2018	39.85	57.75					
		6/27/2018	25.06	72.54					
		10/10/2018	22.26	75.34					
		12/12/2018	30.25	67.35					
		3/14/2019	40.81	56.79					
		5/23/2019	33.75	63.85					
		8/28/2019	25.00	72.60					
		12/16/2019	29.41	68.19					
		2/19/2020	37.10	60.50					
		4/29/2020	37.87	59.73					

TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico									
Well Identification	Top of Casing Elevation (feet) (1)	Elevation Date Groundwa		Groundwater Elevation (1)					
		8/24/2020	25.17	72.43					
		10/28/2020	22.25	75.35					
		3/24/2021	40.91	56.69					
		6/28/2021	26.38	71.22					
		9/22/2021	23.60	74.00					
		11/15/2021	27.09	70.51					
		2/8/2022	38.32	59.28					
MW-7	97.60	4/12/2022	42.56	55.04					
IVI VV - 7	97.00	7/27/2022	24.51	73.09					
		10/13/2022	25.34	72.26					
		1/31/2023	37.99	59.61					
		5/11/2023	42.55	55.05					
		7/18/2023	33.59	64.01					
		10/19/2023	28.88	68.72					
		1/17/2024	38.02	59.58					
		10/17/2024	25.52	72.08					
		9/16/2015	22.74	76.13					
		11/30/2015	27.97	70.90					
		3/30/2016	41.65	57.22					
		6/22/2016	27.11	71.76					
		9/8/2016	19.52	79.35					
		11/29/2016	26.82	72.05					
		6/14/2017	26.30	72.57					
		9/25/2017	20.52	78.35					
MW-8	98.87	12/5/2017	29.30	69.57					
	55.07	3/15/2018	41.03	57.84					
		6/27/2018	26.00	72.87					
		10/10/2018	23.27	75.60					
		12/12/2018	31.34	67.53					
		3/14/2019	42.00	56.87					
		5/23/2019	35.12	63.75					
		8/28/2019	26.03	72.84					
		12/17/2019	30.42	68.45					
		2/19/2020	38.11	60.76					

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TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico									
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)					
		4/29/2020	38.32	60.55					
		8/25/2020	26.32	72.55					
		10/28/2020	23.41	75.46					
		3/24/2021	42.00	56.87					
		6/28/2021	27.30	71.57					
		9/22/2021	24.60	74.27					
		11/15/2021	28.58	70.29					
		2/8/2022	39.11	59.76					
MW-8	98.87	4/12/2022	42.05	56.82					
		7/27/2022	25.67	73.20					
		10/13/2022	26.28	72.59					
		1/31/2023	39.08	59.79					
		5/11/2023	42.42	56.45					
		7/18/2023	34.88	63.99					
		10/19/2023	29.93	68.94					
		1/17/2024	39.02	59.85					
		10/17/2024	26.70	72.17					

Notes:

(1): surface elevation based on an arbitrary datum of 100 feet

bgs: below ground surface

BTOC: below top of casing

NM: not measured

--: indicates no GWEL or PSH measured

	TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico									
			Ensolum Project	No. 07A1988012						
Well Identification	Date	Temperature (°C)	рН	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)			
	3/17/2015			Not sa	ampled					
	6/15/2015	16.01	6.78	0.635	977	2.74	-113.9			
	9/16/2015	16.48	7.00	0.619	953	4.24	-83.1			
	11/30/2015	15.59	7.01	0.680	1,046	2.60	-54.0			
	3/30/2016			Not sa	ampled					
	6/22/2016	16.00	6.65		1,090	1.10	-109.0			
	9/8/2016	16.55	7.35	0.627	965	5.03	66.3			
	11/29/2016	14.79	7.34		935	3.87	46.0			
	6/14/2017	14.81	7.02	0.688	1,043	2.14	-135.6			
	9/25/2017	16.08	6.90		800					
	12/5/2017	14.31	6.84	0.658	1,013	1.32	-153.5			
	3/15/2018		No paramete	er or samples col	lected due to low	well volume	•			
	6/27/2018	16.51	6.77		1,060		-102.5			
	3/14/2019		No paramete	er or samples col	lected due to low	well volume				
	5/23/2019	14.40	7.10	0.510	980		-4.6			
	8/27/2019	19.60	7.16	0.620	1,230		-3.2			
MW-4	12/16/2019	8.40	6.40	0.590	1,200	2.68	13.5			
	2/20/2020	15.80	6.36	0.650	1,300	8.19	-2.6			
	4/29/2020	No parameter or samples collected due to low well volume								
	8/25/2020	22.40	6.18	0.640	1,290	1.04	16.2			
	10/29/2020	17.20	6.59	0.570	1,140	4.63	-13.1			
	3/24/2021	No parameter or samples collected due to low well volume								
	6/28/2021		No para	meters collected	due to equipmen	nt failure				
	9/22/2021	17.90	6.96		2,950					
	11/15/2021	16.90	6.35		1,090					
	2/9/2022		No paramete	er or samples col	lected due to low	well volume				
	4/28/2022		No paramete	•	lected due to low	well volume				
[7/27/2022	19.30	6.18	0.550	1,090					
	10/13/2022	18.10	6.63	0.470	1,020					
[1/31/2023		•	•	lected due to low					
[5/11/2023		No paramete	er or samples col	lected due to low	well volume				
	7/18/2023	36.12	7.10	0.900	1,385	1.61	-94.80			
	10/19/2023	25.66	7.25	1.030	1,580.8	1.73	-67.60			
	3/17/2015		•	•	lected due to low					
	6/15/2015	15.28	7.08	0.576	886	6.83	10.2			
	9/16/2015	15.99	6.72	0.598	920	7.33	34.9			
	11/30/2015	16.24	6.84	1.118	1,721	5.52	-50.5			
MW-5	3/30/2016		-	er or samples col	lected due to low					
	6/22/2016	15.70	7.02		1,120	5.87	2.0			
	9/8/2016	15.78	7.82	0.550	846	7.91	54.3			
	11/29/2016	15.47	7.17		1,198	8.96	74.8			
	6/14/2017	14.22	7.05	0.914	1,406	6.88	-80.1			
	9/25/2017	15.60	6.83		947					

TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico										
			Ensolum Project	No. 07A1988012						
Well Identification	Date	Temperature (°C)	рН	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)			
	12/5/2017	15.16	7.05	0.888	1,367	4.66	-82.9			
	3/15/2018	15.53	7.13		1,301	1.23	78.4			
	6/27/2018	15.84	7.11		1,098	6.80	65.6			
	3/14/2019	14.40	7.20	0.670	1,340		-15.6			
	5/24/2019	14.40	7.17	0.560	1,130		-22.6			
	8/28/2019	19.10	7.02	0.680	1,360		-20.2			
-	12/17/2019	10.20	6.57	0.640	1,250	7.16	-31.7			
-	2/21/2020	12.40	6.50	0.570	1,210		-30.5			
-	4/29/2020	20.70	6.71	0.530	1,060	4.04	-19.9			
-	8/25/2020	23.40	6.86	0.600	1,180	2.71	-15.6			
-	10/28/2020	17.50	6.54	0.670	1,330	4.46	-8.6			
	3/24/2021	13.00	6.68	0.580	1,190		-21.7			
MW-5	6/28/2021		13.00 6.68 0.580 1,19021.7 No parameters collected due to equipment failure							
	9/22/2021	19.70	7.07		3,820					
	11/15/2021	17.70	6.27		1,230					
	2/9/2022	13.90	6.78		1,000					
-	4/28/2022		No paramete	r or samples col	lected due to low	well volume				
	7/27/2022	18.40	6.64	0.510	1,020					
-	10/13/2022	17.90	6.79	0.470	1,090					
-	1/31/2023	12.60	7.32	0.490	960					
	5/11/2023		-		lected due to low	well volume				
	7/18/2023	38.56	7.56	0.790	1,219	6.38	-49.9			
	10/19/2023	24.92	7.68	0.860	1,318.6	6.87	-79.5			
	1/17/2024	7.74	8.07	0.630	970.62	4.94	234.6			
	3/17/2015			Not sa	mpled.					
	6/15/2015	15.34	6.50	0.730	1,124	4.15	-95.9			
	9/16/2015	15.69	6.13	0.846	1,302	2.92	-121.5			
	11/30/2015	15.36	6.57	0.793	1,221	4.82	-72.4			
	3/30/2016		-		ampled	-				
-	6/22/2016	15.30	6.50		1,220	1.42	-91.4			
ŀ	9/8/2016	15.51	7.43	0.849	1,307	1.86	-138.7			
ŀ	11/29/2016	15.29	6.86		1,132	2.57	-86.1			
	6/14/2014	14.10	6.73	0.775	1,192	2.02	-115.1			
MW-6	9/25/2017	14.86	6.30		1,342					
ł	12/5/2017	13.91	6.68	0.794	1,222	0.80	-155.0			
	3/15/2018	15.21	6.78		1,553		-139.2			
-	6/27/2018	16.31	6.91		1,195	0.52	-125			
ł	3/14/2019			r or samples col	lected due to low					
ł	5/23/2019		•	•	lected due to low					
ł	8/27/2019	20.60	6.73	0.580	1,160		13.7			
ł	12/16/2019	9.50	6.13	0.590	1,150	5.15	12.2			
ŀ	2/20/2020	9.50 15.40	6.04	0.590	1,130		12.2			
ŀ	4/29/2020	13.40			lected due to low		11.1			

TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico									
			Ensolum Project	No. 07A1988012					
Well Identification	Date	Temperature (°C)	рН	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)		
	8/25/2020	25.70	6.25	0.660	1,330	1.32	25.8		
	10/28/2020	15.50	6.22	0.790	1,590	5.49	15.3		
	3/24/2021		No paramete	r or samples col	lected due to low	well volume			
	6/28/2021		No para	meters collected	due to equipmer	nt failure			
	9/22/2021	18.10	6.98		3,980				
	11/15/2021	16.80	5.83		1,200				
	2/9/2022	9.50	6.27		1,150				
MW-6	4/28/2022		No paramete	r or samples col	lected due to low	well volume	•		
	7/27/2022	18.20	5.97	0.550	1,110				
	10/13/2022	17.30	6.18	0.620	1,250				
	1/31/2023	8.60	6.85	0.650	1,290				
	5/11/2023		No paramete	r or samples col	lected due to low	well volume			
	7/18/2023		No paramete	r or samples col	lected due to low	well volume			
	10/19/2023	24.10	7.24	0.930	1,435.8	2.37	-71.4		
	10/17/2024	23.24	7.96	0.020	26.61	1.32	-138.6		
	9/16/2015	15.07	6.52	0.581	893	7.15	72.8		
	11/30/2015	15.01	6.69	1.067	1,641	4.99	21.0		
	3/30/2016	16.77	6.91	0.800	1,250	6.03	40.0		
	6/22/2016	15.30	6.93		1,090	1.22	53.5		
	9/8/2016	16.29	7.62	0.441	679	7.49	5.6		
	11/29/2016	14.11	7.07		1,006	6.35	85.7		
	6/14/2017	13.95	6.82	0.809	1,245	4.88	-78.6		
	9/25/2017	13.87	6.91		808				
	12/5/2017	14.11	6.93	0.615	946	3.11	-82.8		
	3/15/2018	15.26	6.91		1,037	1.09	77.1		
	6/27/2018	15.07	6.95		887	5.60	42.5		
	3/14/2019	12.20	7.40	0.510			-5.3		
	5/23/2019	15.50	7.15	0.490	1,550		-8.8		
	8/28/2019	18.00	7.08	0.440	880		-17.8		
MW-7	12/16/2019	8.20	6.41	0.520	1,050	2.85	-39.1		
	2/19/2020	14.70	6.46	0.570	1,120	9.25	-10.6		
	4/29/2020	13.00	6.42	0.530	1,070	2.96	-6.5		
	8/24/2020	19.80	6.51	0.510	1,020	2.17	-6.1		
	10/28/2020	10.90	6.55	0.650	1,290	5.21	-12.4		
	3/24/2021	10.90	6.55	0.650	1,290	5.21	-12.4		
	6/28/2021		No para	meters collected	due to equipmer	nt failure			
	9/22/2021	20.30	7.13		2,590				
	11/15/2021	16.60	6.11		1,410				
	2/8/2022	14.50	6.24		1,040				
	4/28/2022			r or samples col	lected due to low	well volume			
	7/27/2022	16.70	6.47	0.390	790				
	10/13/2022	15.30	6.62	0.420	840				
	1/31/2023	10.40	6.77	0.450	900				

	TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico									
		l	Ensolum Project	t No. 07A1988012	2					
Well Identification	Date	Temperature (°C)	рН	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)			
	5/11/2023		No paramete	er or samples co	llected due to low	well volume				
	7/18/2023	35.77	7.14	0.790	1,218	2.37	54.6			
MW-7	10/19/2023	24.05	7.46	0.890	1,376.4	6.14	289.7			
	1/17/2024	8.02	7.95	0.010	11.98	2.60	212			
	10/17/2024	22.24	8.00	0.00	3.19	5.30	136.3			
	9/16/2015	14.18	6.65	0.534	821	6.37	73.2			
	11/30/2015	13.85	7.20	0.565	869	4.59	-13.8			
	3/30/2016		No paramete	er or samples co	llected due to low	well volume				
	6/22/2016	14.70	7.04		970	0.66	-22.6			
	9/8/2016	13.99	7.82	0.550	847	7.95	15.0			
	11/29/2016	13.71	7.24		883	8.81	89.1			
	6/14/2017	13.36	7.43	0.549	844	7.71	-71.9			
	9/25/2017	12.78	6.73		823					
	12/5/2017	12.36	7.09	0.509	783	2.53	-83.5			
	3/15/2018	14.52	7.12		915	0.00	-135.0			
	6/27/2018	14.48	7.14		748	5.57	62.2			
	3/14/2019	No parameter or samples collected due to low well levels								
	5/23/2019	18.40	7.47	0.470	910		-30.3			
	8/28/2019	18.40	7.07	0.480	960		-15.4			
	12/17/2019	6.60	6.80	0.400	800		-36.6			
	2/19/2020	15.30	6.21	0.440	880	9.57	-18.0			
MW-8	4/29/2020	15.30	6.46	0.420	850	2.61	-10.1			
	8/25/2020	23.00	6.62	0.480	970	2.04	-14			
	10/28/2020	13.40	6.59	0.460	910	4.72	-19.8			
	3/24/2021		No paramet	er or samples co	ellected due to low	well levels				
	6/28/2021		No para	meters collected	due to equipmen	t failure				
	9/22/2021	17.10	7.14		2,650					
	11/15/2021	13.10	6.24		890					
	2/8/2022	14.70	6.53		940					
	4/28/2022		No paramete	er or samples co	llected due to low	well volume	-			
	7/27/2022	16.70	6.47	0.390	790					
	10/13/2022	15.40	6.71	0.420	840					
	1/31/2023	6.80	7.12	0.430	830					
	5/11/2023		No paramete	er or samples co	llected due to low	well volume	-			
	7/18/2023	36.27	7.14	0.740	1,140	2.34	-63.8			
	10/19/2023	21.57	7.67	0.560	862.18	5.42	283.9			
	1/17/2024	8.04	7.91	0.080	116.87	3.44	192.2			
	10/17/2024	21.12	8.43	0.500	762.58	3.77	94.4			

TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico Ensolum Project No. 07A1988012								
Well Identification	Date	Temperature (°C)	рН	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)	

votes:

°C: degrees Celcius

DO: dissolved oxygen

g/L: grams per liter

uS/cm: microsiemens per centimeter

ORP: oxidation-reduction potential

mV: millivolts

TDS: total dissolved solids

--: data not collected

mg/L: milligrams per liter

TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company									
		San	Juan County, New M	lexico					
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)			
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0			
	3/8/2004	0.013	0.012	0.064	1.4				
l l l l l l l l l l l l l l l l l l l	7/19/2004	< 0.0005	< 0.0005	< 0.0005	< 0.0005				
	10/27/2004	0.011	0.008	0.021	0.13				
	12/27/2004	< 0.0025	< 0.0025	< 0.0025	< 0.0005				
	11/22/2005	< 0.0005	< 0.0007	< 0.0008	< 0.0008				
	11/15/2006	< 0.0005	< 0.0007	< 0.0008	< 0.0008				
	2/21/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008				
	8/22/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008				
	11/6/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008				
	3/17/2008	< 0.005	< 0.005	< 0.005	< 0.005				
[10/22/2008	< 0.005	< 0.005	< 0.005	< 0.005				
	9/30/2009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02			
	6/9/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02			
	9/27/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02			
	6/21/2011	< 0.001	< 0.001	< 0.001	< 0.003	1.21			
	9/27/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05			
	12/13/2011	< 0.001	< 0.001	< 0.001	< 0.003	0.201			
	3/7/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.25			
	6/4/2012	< 0.001	< 0.001	< 0.001	< 0.003	1.17			
	9/20/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.25			
	12/28/2012	< 0.001	< 0.001	< 0.001	< 0.003	0.748			
	6/12/2013	< 0.001	< 0.001	< 0.001	< 0.003	1.46			
	9/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	<0.050			
MW-4	12/13/2013	< 0.001	< 0.001	< 0.001	< 0.003	0.758			
101 00 -4	6/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	1.83			
	9/15/2014	< 0.001	< 0.001	< 0.001	< 0.003	0.0544			
	12/15/2014	< 0.001	< 0.001	< 0.001	< 0.003	0.456			
	6/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	1.78			
	9/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	0.225			
	11/30/2015	< 0.001	< 0.001	< 0.001	< 0.003	0.58			
	3/30/2016		No sample	es collected due to low	well levels				
1	06/22/2016	< 0.001	< 0.001	< 0.001	< 0.003	2.07			
ľ	09/08/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05			
ľ	11/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05			
ľ	06/14/2017	< 0.001	< 0.001	< 0.001	< 0.003	1.03			
ľ	9/25/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05			
ľ	12/05/2017	< 0.001	< 0.001	< 0.001	< 0.003	0.564			
ļ	3/15/2018		No sample	es collected due to low	v well levels				
1	6/27/2018	< 0.001	< 0.001	< 0.001	< 0.003	1.39			
1	10/10/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
1	12/12/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
t the second sec	3/14/2019			es collected due to low	v well levels				
f	5/23/2019					<0.10			
t t t t t t t t t t t t t t t t t t t	8/27/2019					<0.10			
- F	12/16/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
ŀ	2/19/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
+	4/29/2020	'		es collected due to low					
ŀ	8/25/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			

TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico								
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)		
MWQCC Standards		0.005	1.0	0.70	0.62	1.0		
	10/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
-	3/24/2021		No sample	es collected due to low	v well levels			
F	6/28/2021	< 0.0025	< 0.0025	< 0.0025	< 0.005	1.9		
_	9/22/2021	< 0.001	< 0.001	< 0.001	< 0.002	< 0.02		
	11/12/2021	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.02		
F	2/9/2022		No sample	es collected due to low	v well levels			
MW-4	4/12/2022		No sample	es collected due to low	v well levels			
_	7/27/2022	< 0.001	<0.001	< 0.001	< 0.0015	2.7		
F	10/13/2022	<0.001	<0.001	<0.001	< 0.0015	0.34		
F	1/31/2023		No sample	es collected due to low	well levels	•		
F	5/11/2023.		No sample	es collected due to low	v well levels			
F	7/18/2023	< 0.0010	<0.0010	< 0.0010	< 0.0015	2.7		
	10/19/2023	<0.0010	< 0.0010	<0.0010	<0.0015	1.1		
-	3/8/2004	0.0011	< 0.0005	0.001	0.017			
	7/19/2004	< 0.0005	0.00055	< 0.0005	0.00072			
	10/27/2004	< 0.0005	< 0.0005	< 0.0005	< 0.001			
	12/27/2004	< 0.0005	< 0.0005	< 0.0005	< 0.001			
	5/11/2005	< 0.0005	< 0.0007	< 0.0008	< 0.0008			
	11/22/2005	< 0.0005	< 0.0007	< 0.0008	< 0.0008			
	11/15/2006	< 0.0005	< 0.0007	< 0.0008	< 0.0008			
	2/21/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008			
	8/22/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008			
	11/6/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008			
	3/17/2008	< 0.005	< 0.005	< 0.005	< 0.005			
	10/22/2008	< 0.005	< 0.005	< 0.005	< 0.005			
	3/30/2009	< 0.005	< 0.005	< 0.005	< 0.005			
	9/30/2009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02		
	3/31/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02		
	6/9/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02		
MW-5	9/27/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02		
	3/16/2011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02		
	6/21/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.1		
	9/27/2011	< 0.001	< 0.001	< 0.001	< 0.003	0.0835		
L	12/13/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
L	3/7/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
L	6/4/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
L	9/20/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
Ļ	12/28/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
Ļ	6/12/2013	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
Ļ	9/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	0.0723		
Ļ	12/13/2013	< 0.001	< 0.001	< 0.001	< 0.003	0.076		
L	3/21/2014	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
L	6/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
L	9/15/2014	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
L	12/15/2014	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
L	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003			
	6/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		

TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico								
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)		
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0		
	9/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
	11/30/2015	< 0.001	< 0.001	< 0.001	< 0.003	0.0684		
	3/30/2016	< 0.001	< 0.001	< 0.001	< 0.003			
	6/22/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
Γ	09/08/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
	11/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
	06/14/2017	< 0.001	< 0.001	< 0.001	< 0.003	0.133		
	9/25/2017	0.147	< 0.001	0.0264	0.0135	0.0568		
	12/05/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
	3/15/2018	< 0.001	< 0.001	< 0.001	< 0.003	0.0795		
	6/27/2018	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
	10/10/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	12/12/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	3/14/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	5/24/2019					<0.10		
	8/28/2019					<0.10		
MW-5	12/17/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	2/21/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	4/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	8/25/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	10/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	3/24/2021	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
	6/28/2021	< 0.0025	< 0.0025	< 0.0025	< 0.005	< 0.02		
_	9/22/2021	< 0.001	< 0.001	< 0.001	< 0.002	< 0.02		
	11/15/2021	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.02		
_	2/9/2022	<0.001	<0.001	<0.001	<0.0015	0.032		
_	4/12/2022		No samples	s collected due to low	v well levels	1		
	7/27/2022	<0.001	<0.001	<0.001	<0.0015	<0.020		
	10/13/2022	<0.001	<0.001	<0.001	<0.0015	<0.020		
	1/31/2023	<0.0010	<0.0010	<0.0010	<0.0015	<0.020		
	5/11/2023		-	s collected due to low				
Ļ	7/18/2023	<0.0010	<0.0010	<0.0010	< 0.0015	0.069		
Ļ	10/19/2023	<0.0010	<0.0010	<0.0010	<0.0015	<0.10		
	1/17/2024	<0.0010	<0.0010	<0.0010	<0.0015	<0.020		
Ļ	3/8/2004	2.5	0.014	1.6	21.031			
Ļ	7/19/2004	< 0.0005	< 0.0005	0.00098	0.0026			
Ļ	10/27/2004	0.0004	0.0003	0.0005	0.0021			
	12/27/2004	0.045	0.0068	0.014	0.0717			
F	11/22/2005	0.01	0.0007	0.016	0.15			
-	11/15/2006	< 0.0005	< 0.0007	< 0.0008	< 0.0008			
MW-6	2/21/2007	0.54	< 0.001	0.076	0.81			
Ļ	8/22/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008			
F	11/6/2007	0.015	< 0.0007	0.047	0.39			
Ļ	3/18/2008	0.16	< 0.005	< 0.005	0.033			
Ļ	10/22/2008	< 0.005	< 0.005	< 0.005	< 0.005			
Ļ	3/30/2009	0.042	< 0.005	< 0.005	0.01			
	9/30/2009	0.096	0.0047	0.062	0.12	1.06		

TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico								
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)		
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0		
	4/1/2010	0.48	< 0.001	0.078	0.2			
	6/9/2010	0.71	< 0.001	0.42	0.52	11.4		
	9/27/2010	0.30	< 0.001	0.25	0.41	0.676		
	3/16/2011	0.18	< 0.001	0.044	0.072	8.66		
	6/21/2011	0.461	0.00048	0.454	0.677	9.45		
	9/27/2011	0.237	< 0.005	0.197	0.225	19.6		
	12/13/2011	0.298	0.0083	0.154	0.141	11.6		
	3/7/2012	0.0477	< 0.001	0.0073	0.0192	22.5		
	6/4/2012	0.649	< 0.01	0.309	0.314	19.2		
	9/20/2012	0.266	< 0.005	0.065	0.0355	9.53		
	12/28/2012	0.319	< 0.005	0.0764	0.0452	8.06		
	6/12/2013	0.442	< 0.005	0.159	0.209	16.6		
	9/11/2013	0.109	< 0.001	0.0208	0.0123	2.26		
	12/13/2013	0.467	< 0.001	0.101	0.0537	5.9		
	6/18/2014	0.384	< 0.005	0.152	0.177	15.5		
	9/15/2014	0.502	< 0.001	0.101	0.064	7.75		
	12/15/2014	0.333	< 0.001	0.0758	0.0249	5.45		
	6/15/2015	0.354	< 0.005	0.167	0.222	13.1		
	9/16/2015	0.294	< 0.005	0.134	0.0615	11		
	11/30/2015	0.413	< 0.01	0.0642	< 0.03	7.35		
	3/30/2016		No sample	es collected due to low	v well levels			
	6/22/2016	0.419	< 0.010	0.0718	0.0435	16.2		
	09/08/2016	0.209	< 0.005	0.0339	< 0.015	6.07		
MW-6	11/29/2016	0.257	< 0.005	0.0649	0.0203	6.32		
_	06/14/2017	0.309	< 0.005	0.103	0.0916	10.6		
	9/25/2017	0.157	< 0.001	0.0286	0.0145	5.73		
_	12/05/2017	0.236	< 0.001	0.0243	0.007	7.58		
_	3/15/2018	0.389	< 0.001	0.0544	0.0376			
_	6/27/2018	0.389	< 0.001	0.0683	0.0427	10.00		
_	10/10/2018	0.0125	< 0.001	0.0038	< 0.003	1.68		
_	12/12/2018	0.146	< 0.001	0.00285	< 0.003	1.66		
	3/14/2019			es collected due to low				
	5/23/2019	0.164	< 0.001	0.0926	0.0377	3.05		
	8/27/2019	0.187	< 0.001	0.0479	0.00321	3.54		
	12/16/2019	0.222	< 0.001	0.0149	< 0.003	0.344		
	2/20/2020	0.121	< 0.001	0.0046	< 0.003	1.65		
	4/29/2020			es collected due to low				
	8/25/2020	0.295	< 0.001	0.0123	< 0.003	2.8		
	10/28/2020	0.112	< 0.001	< 0.001	< 0.003	1.55		
	3/24/2021	0.070	•	es collected due to low		42		
	6/28/2021	0.073	< 0.0025	0.065	< 0.005	12		
	9/22/2021	0.0033	< 0.001	0.0054	< 0.002	2.5		
	11/12/2021	0.140	< 0.001	0.0047	< 0.0015	0.99		
	2/9/2022	0.180	<0.001	0.0081	<0.0015			
	4/12/2022	0.0055		es collected due to low		40		
	7/27/2022	0.0052	< 0.001	0.011	0.0016	13		
	10/13/2022	0.020	<0.001	0.0044	<0.0015	4.0		

TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico									
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)			
MWQCC Standards		0.005	1.0	0.70	0.62	1.0			
MW-6 -	1/31/2023	0.029	<0.0020	<0.0020	<0.0030	0.36			
	5/11/2023	No samples collected due to low well levels							
	7/18/2023	<0.0010	< 0.0010	<0.0010	<0.0015	0.54			
	10/19/2023	0.017	<0.0020	0.0074	0.0034	2.8			
	1/17/2024		No sample	es collected due to low	v well levels				
	10/17/2024	0.019	<0.0020	0.0094	<0.0030	3.8			
	9/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05			
	11/30/2015	< 0.001	< 0.001	< 0.001	< 0.003	0.0637			
	3/30/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50			
-	6/22/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50			
	09/08/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05			
	11/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	<0.05			
	06/14/2017	< 0.001	< 0.001	< 0.001	< 0.003	<0.05			
	9/25/2017	< 0.001	< 0.001	< 0.001	< 0.003	<0.05			
	12/05/2017	< 0.001	< 0.001	< 0.001	< 0.003	<0.05			
	3/15/2018	< 0.001	< 0.001	< 0.001	< 0.003	0.0936			
	6/27/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.05			
	10/10/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
	12/11/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
	3/14/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
	5/23/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
	8/28/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
	12/16/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
MW-7	2/19/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
	4/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
	8/24/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
-	10/28/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
	3/24/2021	< 0.001	< 0.001	< 0.001	< 0.003	<0.10			
Ļ	6/28/2021	< 0.0025	< 0.0025	< 0.0025	< 0.005	< 0.020			
	9/22/2021	< 0.001	< 0.001	< 0.001	< 0.002	< 0.020			
	11/12/2021	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.020			
	2/9/2022	<0.001	< 0.001	< 0.001	<0.0015	<0.020			
	4/12/2022			es collected due to low		1			
	7/27/2022	<0.001	< 0.001	<0.001	<0.0015	<0.020			
	10/13/2022	<0.001	<0.001	<0.001	<0.0015	<0.020			
	1/31/2023	<0.0010	<0.0010	<0.0010	<0.0015	<0.020			
	5/11/2023	No samples collected due to low well levels							
	7/18/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0015	0.54			
	10/19/2023	< 0.0010	< 0.0010	< 0.0010	< 0.0015	< 0.020			
	1/17/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0015	< 0.020			
	10/17/2024	< 0.0010	< 0.0010	<0.0010	< 0.0015	<0.020			
	9/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05			
	11/30/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05			
	3/30/2016	< 0.001	< 0.001	< 0.001	< 0.003	0.412			
	6/22/2016	< 0.001	< 0.001	< 0.001	< 0.003	0.0753			
	09/08/2016 11/29/2016	< 0.001 < 0.001	< 0.001 < 0.001	< 0.001	< 0.003 < 0.003	< 0.05 < 0.05			

TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico										
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)				
NMWQCC Standards	i	0.005	1.0	0.70	0.62	1.0				
	06/14/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05				
	9/25/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05				
	12/5/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05				
	3/15/2018	< 0.001	< 0.001	< 0.001	< 0.003	0.237				
	6/27/2018	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05				
	10/10/2018	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05				
	12/11/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10				
	3/14/2019	No samples collected due to low well levels								
	5/23/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10				
	8/28/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10				
	12/17/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10				
	2/19/2020	< 0.001	< 0.001	< 0.001	< 0.003	0.126				
	4/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10				
	8/24/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10				
MW-8	10/28/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10				
	3/24/2021	No samples collected due to low well levels								
	6/28/2021	< 0.0025	< 0.0025	< 0.0025	< 0.005	<0.020				
	9/22/2021	< 0.001	< 0.001	< 0.001	< 0.002	<0.020				
	11/15/2021	< 0.001	< 0.001	< 0.001	< 0.0015	<0.020				
	2/9/2022	<0.001	< 0.001	<0.001	<0.0015	<0.020				
	4/12/2022	No samples collected due to low well levels								
	7/27/2022	<0.001	<0.001	< 0.001	<0.0015	<0.020				
	10/13/2022	<0.001	<0.001	<0.001	<0.0015	<0.020				
	1/31/2023	<0.0010	<0.0010	< 0.0010	<0.0015	<0.020				
	5/11/2023	No samples collected due to low well levels								
	7/18/2023	<0.0010	<0.0010	< 0.0010	<0.0015	<0.020				
	10/19/2023	<0.0010	<0.0010	< 0.0010	<0.0015	<0.020				
	1/17/2024	<0.0010	<0.0010	<0.0010	<0.0015	<0.020				
	10/17/2024	<0.0010	<0.0010	< 0.0010	<0.0015	<0.020				

Notes:

mg/L: milligrams per liter

ND: not detected, practical quantitation limit unknown

NMWQCC: New Mexico Water Quality Control Commission

--: not analyzed

<0.037: indicates result less than the stated laboratory reporting limit (PQL)

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

Received by OCD: 3/13/2025 8:12:45 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 10/22/2024 2:53:15 PM

JOB DESCRIPTION

Nell Hall #1

JOB NUMBER

885-13935-1

EOL

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

Juhelle Garcia

Generated 10/22/2024 2:53:15 PM

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

Laboratory Job ID: 885-13935-1

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Client Sample Results	6
QC Sample Results	9
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Lab Chronicle	12
Certification Summary	13
Chain of Custody	14
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Client: Hilcorp Energy Project/Site: Nell Hall #1 Page 41 of 63

Definitions/Glossary	1
Job ID: 885-13935-1	2
	3
	4
In or equal to the MDL and the concentration is an approximate value.	5

Qualifiers

Metals Qualifier

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

Job ID: 885-13935-1

Client: Hilcorp Energy Project: Nell Hall #1

Job ID: 885-13935-1

Eurofins Albuquerque

Job Narrative 885-13935-1

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 10/18/2024 7:00 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.

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.

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Client Sample Results

Job ID: 885-13935-1

Matrix: Water

Lab Sample ID: 885-13935-1

Client: Hilcorp Energy Project/Site: Nell Hall #1

Client Sample ID: MW-6 Date Collected: 10/17/24 14:00

Date Received: 10/18/24 07:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	19		2.0	ug/L			10/21/24 21:59	2
Ethylbenzene	9.4		2.0	ug/L			10/21/24 21:59	2
Toluene	ND		2.0	ug/L			10/21/24 21:59	2
Xylenes, Total	ND		3.0	ug/L			10/21/24 21:59	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		-		10/21/24 21:59	2
4-Bromofluorobenzene (Surr)	103		70 - 130				10/21/24 21:59	2
Dibromofluoromethane (Surr)	106		70 - 130				10/21/24 21:59	2
Toluene-d8 (Surr)	97		70 - 130				10/21/24 21:59	2
Method: EPA 200.7 Rev 4.4 - N	letals (ICP) - Diss	olved						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.8		0.20	mg/L			10/21/24 14:45	10

Client Sample Results

Job ID: 885-13935-1

Lab Sample ID: 885-13935-2

Client: Hilcorp Energy Project/Site: Nell Hall #1

Client Sample ID: MW-7 Date Collected: 10/17/24 12:55

Date Collected: 10/17/24 12:55Matrix: WaterDate Received: 10/18/24 07:00										
Method: SW846 8260B - Volatile	Organic Compo	unds (GC/MS)							4	
Analyte	Result (RL	Unit	D	Prepared	Analyzed	Dil Fac	5	
Benzene	ND		1.0	ug/L			10/18/24 21:02	1		
Ethylbenzene	ND		1.0	ug/L			10/18/24 21:02	1		
Toluene	ND		1.0	ug/L			10/18/24 21:02	1		
Xylenes, Total	ND		1.5	ug/L			10/18/24 21:02	1		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	0
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		10/18/24 21:02	1	Ο
4-Bromofluorobenzene (Surr)	102		70 - 130		10/18/24 21:02	1	
Dibromofluoromethane (Surr)	100		70 - 130		10/18/24 21:02	1	9
Toluene-d8 (Surr)	99		70 - 130		10/18/24 21:02	1	
Method: EPA 200.7 Rev 4.4 - Metal	s (ICP) - Diss	olved					

method. El A 200.7 Nev 4.4 - metals (101) - Dissolved										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Iron	ND		0.020	mg/L			10/21/24 14:48	1	

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Released to Imaging: 4/23/2025 11:15:55 AM

Client Sample Results

Job ID: 885-13935-1

Client: Hilcorp Energy Project/Site: Nell Hall #1

Client Sample ID: MW-8 Date Collected: 10/17/24 12:00

Date Received: 10/18/24 07:00

Lab Sample ID:	885-13935-3
	Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			10/18/24 21:29	1
Ethylbenzene	ND		1.0	ug/L			10/18/24 21:29	1
Toluene	ND		1.0	ug/L			10/18/24 21:29	1
Xylenes, Total	ND		1.5	ug/L			10/18/24 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		-		10/18/24 21:29	1
4-Bromofluorobenzene (Surr)	102		70 - 130				10/18/24 21:29	1
Dibromofluoromethane (Surr)	100		70 - 130				10/18/24 21:29	1
Toluene-d8 (Surr)	97		70 - 130				10/18/24 21:29	1
Method: EPA 200.7 Rev 4.4 - N	letals (ICP) - Diss	olved						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.020	mg/L			10/21/24 14:52	1

Eurofins Albuquerque

QC Sample Results

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

Lab Sample ID: MB 885-14528/5	5							Chefft 3	ample ID: Metho	
Matrix: Water									Prep Type:	Iotal/NA
Analysis Batch: 14528	ME	MB								
Analyte	Resul		RL		Unit		D	Prepared	Analyzed	Dil Fa
Benzene			1.0		ug/L			Tropurcu	10/18/24 11:28	
Ethylbenzene	NE		1.0		ug/L				10/18/24 11:28	
Toluene	NE		1.0		ug/L				10/18/24 11:28	
Xylenes, Total	NE		1.0		ug/L				10/18/24 11:28	
			1.0		ug/L				10/10/24 11:20	
	ME	MB								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	99)	70 - 130						10/18/24 11:28	
4-Bromofluorobenzene (Surr)	101		70 - 130						10/18/24 11:28	
Dibromofluoromethane (Surr)	98	}	70 - 130						10/18/24 11:28	
Toluene-d8 (Surr)	97	,	70 - 130						10/18/24 11:28	
Lab Sample ID: LCS 885-14528	/4						Clie	ent Sample	ID: Lab Control	Sample
Matrix: Water									Prep Type:	Total/N/
Analysis Batch: 14528										
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits	
Benzene			20.1	20.3		ug/L		101	70 - 130	
Toluene			20.2	20.5		ug/L		102	70 - 130	
	LCS LC	s								
Surrogate	%Recovery Qu	alifier	Limits							
1,2-Dichloroethane-d4 (Surr)	98		70 - 130							
4-Bromofluorobenzene (Surr)	104		70 - 130							
Dibromotiuoromethane (Surr)	97		70 - 130							
Dibromofluoromethane (Surr) Toluene-d8 (Surr)	97 98		70 ₋ 130 70 ₋ 130							
Toluene-d8 (Surr)	98							Client S	ample ID: Metho	od Blani
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5	98							Client S	ample ID: Metho Prep Type: ⁻	
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water	98							Client S		
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water	98	: MB						Client S		
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587	98 5 ME	6 MB t Qualifier			Unit		D	Client S Prepared		Total/N/
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte	98 5 ME	Qualifier	70 - 130		unit		<u> </u>		Prep Type:	Total/N/ Dil Fa
<i>Toluene-d8 (Surr)</i> Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene	98 5 	Qualifier	70 - 130 				<u>D</u>		Prep Type:	Total/N/
<i>Toluene-d8 (Surr)</i> Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene	98 5 	Qualifier	70 - 130 		ug/L		_ <u>D</u>		Analyzed 10/21/24 11:58	Dil Fa
<i>Toluene-d8 (Surr)</i> Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene	98 5 	Qualifier	70 - 130 		ug/L ug/L		<u> </u>		Analyzed 10/21/24 11:58 10/21/24 11:58	Dil Fa
<i>Toluene-d8 (Surr)</i> Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene	98 5 	Qualifier	70 - 130 		ug/L ug/L ug/L		_ D		Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Dil Fa
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene Xylenes, Total	98 5 	Qualifier	70 - 130 		ug/L ug/L ug/L		_ <u>D</u>		Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Dil Fa
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate	98 5 	Qualifier MB Qualifier	70 - 130 		ug/L ug/L ug/L		<u> </u>	Prepared	Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Total/N/ Dil Fa
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr)	98 5 ME Result NC NC NC NC NC NC NC NC NC NC NC	A Qualifier	70 - 130 		ug/L ug/L ug/L		_ <u>D</u>	Prepared	Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Total/N/ Dil Fa Dil Fa
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	98 5 ME Result NE NE NE NE NE SRecovery 98	A Qualifier	70 - 130 <u>RL</u> 1.0 1.0 1.0 1.5 <u>Limits</u> 70 - 130		ug/L ug/L ug/L		_ <u>D</u>	Prepared	Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Dil Fa
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr)	98 5 ME Result NE NE NE NE NE NE NE 2%Recovery 98 102	MB Qualifier	70 - 130 RL 1.0 1.0 1.0 1.5 Limits 70 - 130 70 - 130 70 - 130		ug/L ug/L ug/L		_ <u>D</u>	Prepared	Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Total/N/ Dil Fa
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) A-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr)	98 5 	MB Qualifier	70 - 130 RL 1.0 1.0 1.0 1.5 Limits 70 - 130 70 - 130 70 - 130		ug/L ug/L ug/L			Prepared Prepared	Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Dil Fa
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) A+Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Lab Sample ID: LCS 885-14587/	98 5 	MB Qualifier	70 - 130 RL 1.0 1.0 1.0 1.5 Limits 70 - 130 70 - 130 70 - 130		ug/L ug/L ug/L			Prepared Prepared	Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Total/N/ Dil Fa Dil Fa
Toluene-d8 (Surr) Lab Sample ID: MB 885-14587/5 Matrix: Water Analysis Batch: 14587 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) A+Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Lab Sample ID: LCS 885-14587/ Matrix: Water	98 5 	MB Qualifier	70 - 130 RL 1.0 1.0 1.0 1.5 Limits 70 - 130 70 - 130 70 - 130		ug/L ug/L ug/L			Prepared Prepared	Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Dil Fa
	98 5 	MB Qualifier	70 - 130 RL 1.0 1.0 1.0 1.5 Limits 70 - 130 70 - 130 70 - 130	LCS	ug/L ug/L ug/L			Prepared Prepared	Analyzed 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58 10/21/24 11:58	Dil Fa

100

100

70 - 130

70 - 130

Job ID: 885-13935-1

Benzene

Toluene

20.1

20.2

ug/L

ug/L

20.1

20.2

10/22/2024

5 6

Client: Hilcorp Energy

Job ID: 885-13935-1

Project/Site: Nell Hall #1 Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MRL 885-14659/16 Matrix: Water		Client	Sample	ID: Lab Control Sample Prep Type: Total/NA				
Analysis Batch: 14659								
	Spike	MRL	MRL				%Rec	1
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	0.0200	0.0169	J	mg/L		84	50 - 150	

Eurofins Albuquerque

Client Sample ID

Method Blank

Lab Control Sample

Client Sample ID

Lab Control Sample

Method Blank

MW-7

MW-8

MW-6

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Matrix

Water

Water

Water

Water

Matrix

Water

Water

Water

Client: Hilcorp Energy Project/Site: Nell Hall #1

Analysis Batch: 14528

Analysis Batch: 14587

GC/MS VOA

Lab Sample ID

885-13935-2

885-13935-3

MB 885-14528/5

LCS 885-14528/4

Lab Sample ID

MB 885-14587/5

LCS 885-14587/4

885-13935-1

Job ID: 885-13935-1

Prep Batch

Prep Batch

Method

8260B

8260B

8260B

8260B

Method

8260B

8260B

8260B

7

Metals

Filtration Batch: 14530

Lab Sample ID 885-13935-1	Client Sample ID MW-6	Prep Type Dissolved	Matrix Water	Method Filtration	Prep Batch
885-13935-2	MW-7	Dissolved	Water	Filtration	
885-13935-3	MW-8	Dissolved	Water	Filtration	
Analysis Batch: 146	59				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-13935-1	MW-6	Dissolved	Water	200.7 Rev 4.4	14530
885-13935-2	MW-7	Dissolved	Water	200.7 Rev 4.4	14530
885-13935-3	MW-8	Dissolved	Water	200.7 Rev 4.4	14530
MRL 885-14659/16	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Lab Chronicle

Client: Hilcorp Energy Project/Site: Nell Hall #1

Client Sample ID: MW-6 Date Collected: 10/17/24 14:00

Date Received: 10/18/24 07:00

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		2	14587	JR	EET ALB	10/21/24 21:59
Dissolved	Filtration	Filtration			14530	тс	EET ALB	10/18/24 09:17
Dissolved	Analysis	200.7 Rev 4.4		10	14659	VP	EET ALB	10/21/24 14:45

Client Sample ID: MW-7 Date Collected: 10/17/24 12:55 Date Received: 10/18/24 07:00

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		1	14528	JR	EET ALB	10/18/24 21:02
Dissolved	Filtration	Filtration			14530	тс	EET ALB	10/18/24 09:17
Dissolved	Analysis	200.7 Rev 4.4		1	14659	VP	EET ALB	10/21/24 14:48

Client Sample ID: MW-8

Date Collected: 10/17/24 12:00 Date Received: 10/18/24 07:00

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		1	14528	JR	EET ALB	10/18/24 21:29
Dissolved	Filtration	Filtration			14530	тс	EET ALB	10/18/24 09:17
Dissolved	Analysis	200.7 Rev 4.4		1	14659	VP	EET ALB	10/21/24 14:52

Laboratory References:

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

Job ID: 885-13935-1

Lab Sample ID: 885-13935-1

Lab Sample ID: 885-13935-2

Matrix: Water

Matrix: Water

5
8
g

Eurofins Albuquerque

Lab Sample ID: 885-13935-3

Matrix: Water

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Nell Hall #1

Laboratory: Eurofins Albuquerque

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

Authority	Progra	am	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901	02-26-25
• ,		t the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
for which the agency do	bes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
200.7 Rev 4.4		Water	Iron	
8260B		Water	Benzene	
8260B		Water	Ethylbenzene	
8260B		Water	Toluene	
8260B		Water	Xylenes, Total	
			NM100001	02-26-25

Job ID: 885-13935-1

Eurofins Albuquerque

	ain-of-	Chain-of-Custody Record	Turn-Around Time:	me:							Receiv
Client: Hilcor	Hilcorp Farmington NM	ton NM	X Standard	C Rush				ANALYSIS	ANALYSTS LABOR		ved b
			Project Name:					www.hallenvironmental.com	pental com		y O
Mailing Addre	ss: 382 Rc	Mailing Address: 382 Road 3100 Aztec, NM 87410		Nell Hall #1		4	4901 Hawkins NE		371	885-13935 COC	
Billing Addres	s: PO Box	Billing Address: PO Box 61529 Houston, TX 77208	Project #:				Tel. 505-345-3975		505-345-4107		3/13
Phone #:	505-486-9543	3-9543						Analysis	Request		/202
email or Fax#:		Brandon.Sinclair@hilcorp.com	Project Manager:	L.							258
QA/QC Package:		Level 4 (Full Validation)	Kato	Kautman	c						:12:45
Accreditation:		5	Sampler:	Brandon Sinclair	air		1041				AM
D FUD (TVMA)	Other		On Ice: # of Coolers:	d Yes [a No maya	_					
			Cooler Temp(ind	P(including CF): 2.0 + (1.2.2.2.0+		10+0				
Date Time	Matrix	Sample Name	Container Type and #	Preservativ Type	HEAL No.	bevlossiQ	BTEX 826				
0041 21-01	Ø Water	9-MM	Various	Various							—
	1255 Water	7-WM	Various	Various		××					
1 1200	o Water	MW-8	Various	Various		××					
		6									
Date: Time: 16/n/24 //6/3 Date: Time:	Relinqui	shed by: Lund	Received by:	Via: Walt	Date Time 10/17/24 10/3 Date Time		Remarks: * _{Dissolved F} pricing, see Andy.	e is to be filterd a	Remarks: *Dissolved Fe is to be filterd and preserved in the lab. pricing, see Andy.	lab. Special	ial
hell/01		Mondassay samples submitted to Hall Environmental meru ha subcontracted for the			210/19	is Mesibility	A DV at h-Contracts	nd doto trial the released	interest on the constant	trona loni	Pa
2/2024											ge 51 of
						11	8 9 10 11	6 7 8	3 4 5	2	63

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 13935

List Number: 1 Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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.	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	

Job Number: 885-13935-1

List Source: Eurofins Albuquerque



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 03, 2024 Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

FAX:

RE: Nell Hall 1

OrderNo.: 2401846

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 1/20/2024 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2401846

Hall Environmental Analysis Laborat	ory, Inc.
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Date Reported: 2/3/2024 **Client Sample ID: MW-5**

CLIENT: HILCORP ENERGY		Client S	Sample ID:	MW-5	i
Project: Nell Hall 1		Collec	ction Date:	1/17/2	024 11:45:00 AM
Lab ID: 2401846-001	Matrix: AQUEOUS	Rece	vived Date:	1/20/2	024 8:05:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 200.7: DISSOLVED META	LS				Analyst: VP
Iron	ND	0.020	mg/L	1	1/25/2024 5:43:06 PM
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: CCM
Benzene	ND	1.0	µg/L	1	1/23/2024 2:09:00 PM
Toluene	ND	1.0	µg/L	1	1/23/2024 2:09:00 PM
Ethylbenzene	ND	1.0	µg/L	1	1/23/2024 2:09:00 PM
Xylenes, Total	ND	1.5	µg/L	1	1/23/2024 2:09:00 PM
Surr: 4-Bromofluorobenzene	130	70-130	%Rec	1	1/23/2024 2:09:00 PM
Surr: Toluene-d8	102	70-130	%Rec	1	1/23/2024 2:09:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Analytical Report Lab Order 2401846

Date Reported: 2/3/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY		Client Sample	D: MW-	7
Project: Nell Hall 1		Collection Da	te: 1/17/2	2024 11:25:00 AM
Lab ID: 2401846-002	Matrix: AQUEOUS	Received Da	te: 1/20/2	2024 8:05:00 AM
Analyses	Result	RL Qual Unit	s DF	Date Analyzed
EPA METHOD 200.7: DISSOLVED N	IETALS			Analyst: VP
Iron	ND	0.020 mg/l	_ 1	1/25/2024 5:50:04 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST			Analyst: CCM
Benzene	ND	1.0 µg/L	1	1/23/2024 3:23:00 PM
Toluene	ND	1.0 µg/L	1	1/23/2024 3:23:00 PM
Ethylbenzene	ND	1.0 µg/L	1	1/23/2024 3:23:00 PM
Xylenes, Total	ND	1.5 μg/L	1	1/23/2024 3:23:00 PM
Surr: 4-Bromofluorobenzene	122	70-130 %Re	ec 1	1/23/2024 3:23:00 PM
Surr: Toluene-d8	100	70-130 %Re	ec 1	1/23/2024 3:23:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Analytical Report Lab Order 2401846

Date Reported: 2/3/2024

CLIENT: HILCORP ENERGY Project: Nell Hall 1 Lab ID: 2401846-003	Matrix: AOUEOUS		te: 1/17/2	3 2024 11:00:00 AM 2024 8:05:00 AM
Analyses	Result	RL Qual Unit		Date Analyzed
EPA METHOD 200.7: DISSOLVED ME	TALS			Analyst: VP
Iron	ND	0.020 mg/	_ 1	1/25/2024 6:01:42 PM
EPA METHOD 8260B: VOLATILES SH	IORT LIST			Analyst: CCM
Benzene	ND	1.0 µg/L	. 1	1/23/2024 3:48:00 PM
Toluene	ND	1.0 µg/L	. 1	1/23/2024 3:48:00 PM
Ethylbenzene	ND	1.0 µg/L	. 1	1/23/2024 3:48:00 PM
Xylenes, Total	ND	1.5 µg/L	. 1	1/23/2024 3:48:00 PM
Surr: 4-Bromofluorobenzene	124	70-130 %R	ec 1	1/23/2024 3:48:00 PM
Surr: Toluene-d8	102	70-130 %R	ec 1	1/23/2024 3:48:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	HILCORF	ENERG	Y								
Project:	Nell Hall	1									
Sample ID:	MB-B	SampT	ype: ME	I K	Tes	tCode: FF	PA Method	200.7: Dissolv	ed Metals		
Client ID:	PBW		n ID: B1			RunNo: 10		200.11 213301	eu metule	•	
Prep Date:		Analysis D				SeqNo: 37		Units: mg/L			
Analyte		Result	PQL		SPK Ref Val	•	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		ND	0.020	SFR value	SFK Kei vai	/0REC	LOWLINII	T light_lithit	/0I\F D	KF DLIIIII	Quai
Sample ID:		SamnT	ype: LC	SI I	Tes	tCode: EE	A Method	200.7: Dissolv	od Motals		
Client ID:	BatchQC	•	n ID: B1			RunNo: 10		200.7. DISSON		•	
Prep Date:	Datchigo	Analysis D				SeqNo: 37		Units: mg/L			
					SPK Ref Val			-	%RPD	RPDLimit	Qual
Analyte Iron		Result ND	PQL 0.020	0.02000	SPK Rer Val	%REC 98.6	LowLimit 50	HighLimit 150	%RPD	RPDLIMIT	Qual
					-						
Sample ID:		•	ype: LC					200.7: Dissolv	ed Metals	5	
Client ID:	LCSW		n ID: B1			RunNo: 1(
Prep Date:		Analysis D	ate: 1/2	25/2024	5	SeqNo: 37	793036	Units: mg/L			
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.51	0.020	0.5000	0	101	85	115			
Sample ID:	2401846-002BMS	SampT	ype: MS	;	Tes	tCode: EF	PA Method	200.7: Dissolv	ed Metals	5	
Client ID:	MW-7	Batch	n ID: B1	02671	F	RunNo: 10	02671				
Prep Date:		Analysis D	ate: 1/2	25/2024	5	SeqNo: 37	793822	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.51	0.020	0.5000	0	101	70	130			
Sample ID:	2401846-002BMSD	SampT	ype: MS	D	Tes	tCode: EF	PA Method	200.7: Dissolv	ed Metals	6	
Client ID:	MW-7	Batch	n ID: B1	02671	F	RunNo: 1(02671				
Prep Date:		Analysis D	ate: 1/2	25/2024	S	SeqNo: 37	793823	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.50	0.020	0.5000	0	100	70	130	1.12	20	
Sample ID:	2401846-003BMS	SampT	ype: MS	;	Tes	tCode: EF	PA Method	200.7: Dissolv	ed Metals	;	
Client ID:	MW-8	Batch	n ID: B1	02671	F	RunNo: 10	02671				
Prep Date:		Analysis D	ate: 1/2	25/2024	S	SeqNo: 37	793828	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.49	0.020	0.5000	0	98.1	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2401846

03-Feb-24

WO#:

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Client:	HILCORF	PENERG	Y								
Project:	Nell Hall	1									
Sample ID:	2401846-003BMSD	Samp	Гуре: МS	D	Tes	tCode: EF	PA Method	200.7: Dissolv	ved Metals	6	
Client ID:	MW-8	Batc	h ID: B1	02671	F	RunNo: 1(02671				
Prep Date:		Analysis [Date: 1/2	25/2024	S	SeqNo: 37	793829	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.49	0.020	0.5000	0	99.0	70	130	0.899	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#:

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: HILCORF Project: Nell Hall		Y								
Sample ID: 100ng Ics		ype: LC	s	Tes	tCode: FI	PA Method	8260B: Volati	les Short I	list	
Client ID: LCSW		n ID: SL			RunNo: 1		02000. 10100			
Prep Date:	Analysis D				SeqNo: 3		Units: µg/L			
	-				•					Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene Toluene	23 19	1.0 1.0	20.00 20.00	0 0	116 95.8	70 70	130 130			
Surr: 1,2-Dichloroethane-d4	19	1.0	10.00	0	95.0 131	70 70	130			S
Surr: 4-Bromofluorobenzene	13		10.00		122	70	130			3
Surr: Dibromofluoromethane	12		10.00		122	70 70	130			
Surr: Toluene-d8						70 70				
	10		10.00		100	70	130			
Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8260B: Volati	les Short I	List	
Client ID: PBW	Batch	n ID: SL	102628	F	RunNo: 10	02628				
Prep Date:	Analysis D	Date: 1/2	23/2024	Ş	SeqNo: 3	791707	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Kylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	13		10.00		131	70	130			S
Surr: 4-Bromofluorobenzene	12		10.00		120	70	130			
Surr: Dibromofluoromethane	12		10.00		116	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			
Sample ID: 2401846-001ams	SampT	уре: МS	6	Tes	tCode: E	PA Method	8260B: Volati	les Short	List	
Client ID: MW-5		n ID: SL			RunNo: 1					
Prep Date:	Analysis D	Date: 1/2	23/2024	Ş	SeqNo: 3	791781	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	115	70	130	701 CT		Quai
	-			-						
Foluene	20 12	1.0	20.00	0	98.5	70 70	130			ç
Surr: 1,2-Dichloroethane-d4	13		10.00		133	70	130			S
Surr: 4-Bromofluorobenzene	12		10.00		123	70	130			
Surr: Dibromofluoromethane	12		10.00		118	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			
Sample ID: 2401846-001amsd	SampT	уре: МS	D	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	List	
Client ID: MW-5	Batch	n ID: SL	102628	F	RunNo: 10	02628				
Prep Date:	Analysis D	Date: 1/2	23/2024	Ş	SeqNo: 3	791782	Units: µg/L			
										• •
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Result 22	PQL 1.0	SPK value 20.00	SPK Ref Val 0	%REC 109	LowLimit 70	HighLimit 130	%RPD 5.61	RPDLimit 20	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

WO#: 2401846 03-Feb-24

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

HILCORP ENERGY

Project: Nell Hall	1								
Sample ID: 2401846-001amsd	Samp ⁻	Туре: МЅ	D	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List
Client ID: MW-5	Batc	h ID: SL	102628	F	RunNo: 1(02628			
Prep Date:	Analysis [Date: 1/2	23/2024	S	SeqNo: 37	791782	Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Surr: 1,2-Dichloroethane-d4	13		10.00		130	70	130	0	0
Surr: 4-Bromofluorobenzene	13		10.00		130	70	130	0	0
Surr: Dibromofluoromethane	12		10.00		116	70	130	0	0
Surr: Toluene-d8	10		10.00		102	70	130	0	0

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#:	2401846
	03-Feb-24

Qual

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Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.ballenvironmental.com

Sample Log-In Check List

Released to Imaging: 4/23/2025 11:15:55 AM

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Client Name: HILCORP ENERGY Work Order Numb	ber: 2401846		RcptNo: 1
Received By: Cheyenne Cason 1/20/2024 8:05:00 /	AM	Chent Chent	
Completed By: Cheyenne Cason 1/20/2024 8:43:47 /	۹M	Chenel	
Reviewed By: 1/22/24			
Chain of Custody			_
1. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?	Courier		
Log In			
3. Was an attempt made to cool the samples?	Yes 🗹	No	
4. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C	Yes	No 🗹	
_	Samples no		
5. Sample(s) in proper container(s)?	Yes 🗹	No 🗌	
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?	Yes 🗹	No 🗌	NA 🗌
	-	–	
Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes 🗹	No 🗌	NA
10. Were any sample containers received broken?	Yes 🗀	No 🗹	# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH: 3 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted? Yes
13. Is it clear what analyses were requested?	Yes 🗹	No 🗌	
14. Were all holding times able to be met?	Yes 🗹	No 🗌	Checked by: CMC 1/22/M
(If no, notify customer for authorization.)			
Special Handling (if applicable)			
15. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified: Date	[
By Whom: Via:	eMail	Phone 🗌 Fax	In Person
Regarding:			
Client Instructions:			
16. Additional remarks:	10		
Poured off and Filered from unpreserved volume for all sam 7342) to all samples - Crue [[terty]	ples (Lot #	66106) and	i added ~0.4mls HNO3 (Chem #
17. <u>Cooler Information</u>			
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 -0.4 Good Yes Yogi			- the second sec

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Received by OCD: 3/13/2025 8:12:45 AM		Page 62 of 63
Chain-of-Custody Record	Turn-Around Time:	
Client: Hilcorp Farmington NM	X Standard	ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address: 382 Road 3100 Aztec, NM 87410	Nell Hall #1	4901 Hawkins NE - Albuquerque, NM 87109
Billing Address: PO Box 61529 Houston, TX 77208	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 505-486-9543		Analysis Request
email or Fax#: Brandon.Sinclair@hilcorp.com	Project Manager:	
QA/QC Package:	Mitch Killand	
creditation:	د د	
D NELAC D Other	On Ice: XYes DNO Yog /	
	# of Coolets. ・ Cooler Temp(mentation CF): ひょうりょう、 2	
	Container Type Preservative HEAL No.	1 bəvio 0 vived F
Date Time Matrix Sample Name	24	
Water MW-4	Various	
[-17 [1] 4 S Water MW-5	Various Various Col	
Water MW-6	Various	
1-17 [[2 5 Water MW-7		
MW-8 MW-8	Various 2003	
Date: Time: Relinquished by: 1-19 1710 W And	Via: Date	Remarks: *D pricing, see
Date: Time: Relinquished by:	r. Via: Date	somplus in hora
	One Course 1/2012 0803	Che Cours 1/20/2 0805
If necessary samples submitted to Hall Environmental may bi	he subcontracted to other accredited [aboratories. 1/0] Serves as nonce of t	this possibility. Any sup-contracted data will be clearly inviated on une analytical report

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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

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CONDITIONS

Action 442044

CONDITIONS			
Operator:	OGRID:		
HILCORP ENERGY COMPANY	372171		
1111 Travis Street	Action Number:		
Houston, TX 77002	442044		
	Action Type:		
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)		

CONDITIONS

CONDITIONS				
Created By	Condition	Condition Date		
michael.buchanan	Review of the 2024 Annual Groundwater Monitoring Report for Nell Hall #1: content satisfactory 1. Continue to collect groundwater samples at MW- 6, MW-7, MW-8 on a semi-annual basis for BTEX and dissolved iron as prescribed in report. 2. As monitored natural attenuation has demonstrated to achieve remediation and only residual concentrations remain, continue as prescribed in this report. 3. Please submit the status update and 2025 Annual Groundwater Monitoring Report to OCD no later than April 1, 2026.	4/23/2025		