

**REVIEWED**

By Mike Buchanan at 3:59 pm, May 30, 2024

**E N S O L U M**

March 26, 2024

**New Mexico Oil Conservation Division**

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

**Re:** **2023 Annual Groundwater Monitoring Report**  
 Bruington Gas Com #1  
 San Juan County, New Mexico  
 Hilcorp Energy Company  
 NMOCD Incident Number: nJK1201238485

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *2023 Annual Groundwater Monitoring Report* to the New Mexico Oil Conservation Division (NMOCD) to document groundwater monitoring activities conducted at the Bruington Gas Com #1 natural gas production well (Site) during 2023. The Site is located within Unit Letter E, Section 14, Township 29 North, and Range 11 West, San Juan County, New Mexico (Figure 1).

There are currently nine monitoring wells onsite, which are monitored semi-annually for groundwater elevations. All monitoring wells are sampled annually. This report presents the results of the 2023 monitoring events.

**SITE BACKGROUND**

Comprehensive Site background history has been detailed by previous consultants' annual groundwater monitoring reports, which are available on the NMOCD database.

In December of 2017, Hilcorp acquired the Site from XTO Energy Inc. and has continued to perform semi-annual monitoring of groundwater elevations and annual or semi-annual sampling of all monitoring wells. Summaries of groundwater elevation data and laboratory analytical results from historical and current groundwater monitoring events are presented in Table 1 and Table 2, respectively.

**SITE GROUNDWATER CLEANUP STANDARDS**

The NMOCD requires groundwater-quality standards be met as presented by the 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 micrograms per liter ( $\mu\text{g}/\text{L}$ ):

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

Review of the 2023 Annual Groundwater Monitoring Report for Bruington Gas Com#1: Content Satisfactory  
 1. Review of the 2021 Annual Groundwater Monitoring Report for Bruington Gas Com #1: Content Satisfactory 1. Implement more active groundwater remediation by installing activated ORC socks as planned (if they haven't been installed already) in monitoring wells: MW-2R, MW-5, MW-6, MW-7 and MW-8 and collect ORP and DO values for effectiveness. 2. Please upload SDS for the ORC socks being utilized.3. Continue to collect groundwater elevations semi-annually. Increase groundwater monitoring events to a semi-annual basis for all wells as planned until COCs are reaching the human health limits in the WQCC standards. 4. Submit the 2024 Annual Report by April 1, 2025.

## GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Groundwater level measurements were collected in June and December 2023 from all wells. Static groundwater level monitoring included recording depth-to-groundwater using an oil/water interface probe. The interface probe was decontaminated with Alconox™ soap and rinsed with distilled water prior to each measurement to prevent cross-contamination. Measured depths-to-groundwater and calculated groundwater elevations are presented in Table 1. The inferred groundwater flow direction is generally to the south in the northern portion of the Site. Flow direction in the southern portion of the Site varies throughout the year, generally flowing to the east or to the southwest as indicated on the groundwater potentiometric surface maps presented in Figures 2 and 3. The groundwater flow direction in the southern portion of the Site is likely dependent on the seasonal fluctuations of irrigation water running through the Citizen's Irrigation Ditch situated to the west of the Site.

A petroleum sheen was present in wells MW-2R and MW-8 and 0.01 feet of product was present in well MW-6 during the December 2023 sampling event. Phase-separated hydrocarbons (PSH) was not present in any other Site wells during the 2023 monitoring events.

## GROUNDWATER SAMPLING

Groundwater samples were collected during the June and December 2023 sampling events in all Site wells that did not contain PSH. 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.

Following well purging, groundwater samples were placed directly into laboratory-provided containers and labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. Containers were immediately sealed and packed on ice to preserve samples. Samples were submitted to Hall Environmental Analysis Laboratory and/or Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B. Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

## GROUNDWATER ANALYTICAL RESULTS

During the June and December 2023 sampling events, well MW-3R was dry and MW-7 could not be located. Concentrations of BTEX constituents were compliant with NMWQCC standards in wells MW-1R and MW-4 during both 2023 sampling events. Concentrations of BTEX constituents were compliant with NMWQCC standards in well MW-9 during the June 2023 sampling event; however, the benzene concentration exceeded the applicable standard during the December 2023 event. PSH and/or BTEX concentrations exceeding the NMWQCC standards were present in wells MW-2R, MW-5, MW-6, and MW-8 during both 2023 sampling events.

Analytical results are summarized in Table 2 and depicted on Figures 2 and 3, with complete laboratory analytical reports attached as Appendix A.

## FINDINGS

BTEX concentrations have not been detected above laboratory reporting limits in wells MW-1R, MW-3R, and MW-4 in more than 10 years, although MW-3R has been dry and not sampled since 2019. BTEX concentrations had not exceeded the NMWQCC standards in well MW-9 since 2018; however, the benzene concentration exceeded the applicable standard during the

December 2023 sampling event. Based on historical data from well MW-9, benzene concentrations have fluctuated year to year from below laboratory detection limits up to 285 µg/L. Lastly, PSH and/or BTEX concentrations exceeding the NMWQCC standards have continued to be detected in wells MW-2R, MW-5, MW-6, and MW-8 during the 2023 sampling events. Benzene concentrations are generally highest in wells MW-5 and MW-6. Overall, concentrations of BTEX in monitoring wells at the Site remain similar to previous years.

Groundwater flow direction and elevation fluctuations appear to be controlled by the presence or absence of water in the Citizen's Irrigation Ditch to the west of the Site. Groundwater elevations in well in the southern portion of the Site and closer to the irrigation ditch are highly influenced, while upgradient well MW-9 and is less affected by the fluctuations.

## RECOMMENDATIONS

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

- Install Oxygen Release Compound (ORC®) socks in wells MW-2R, MW-5, MW-6, MW-7, and MW-8. Regenesis ORC® socks produce a controlled release of molecular oxygen to increase oxygen levels in the groundwater, thus contributing to aerobic groundwater conditions and stimulating through enhanced microbial action and biodegradation of petroleum hydrocarbon. This will be performed in the first quarter of 2024.
- Continue semi-annual gauging and increase sampling to semi-annual for all monitoring wells on Site.
- Field screen for oxidation-reduction potential (ORP) and dissolved oxygen (DO) values at all wells during semi-annual gauging and sampling events to assess if the socks are effective at contributing to an aerobic environment, which stimulates petroleum hydrocarbon biodegradation over time.

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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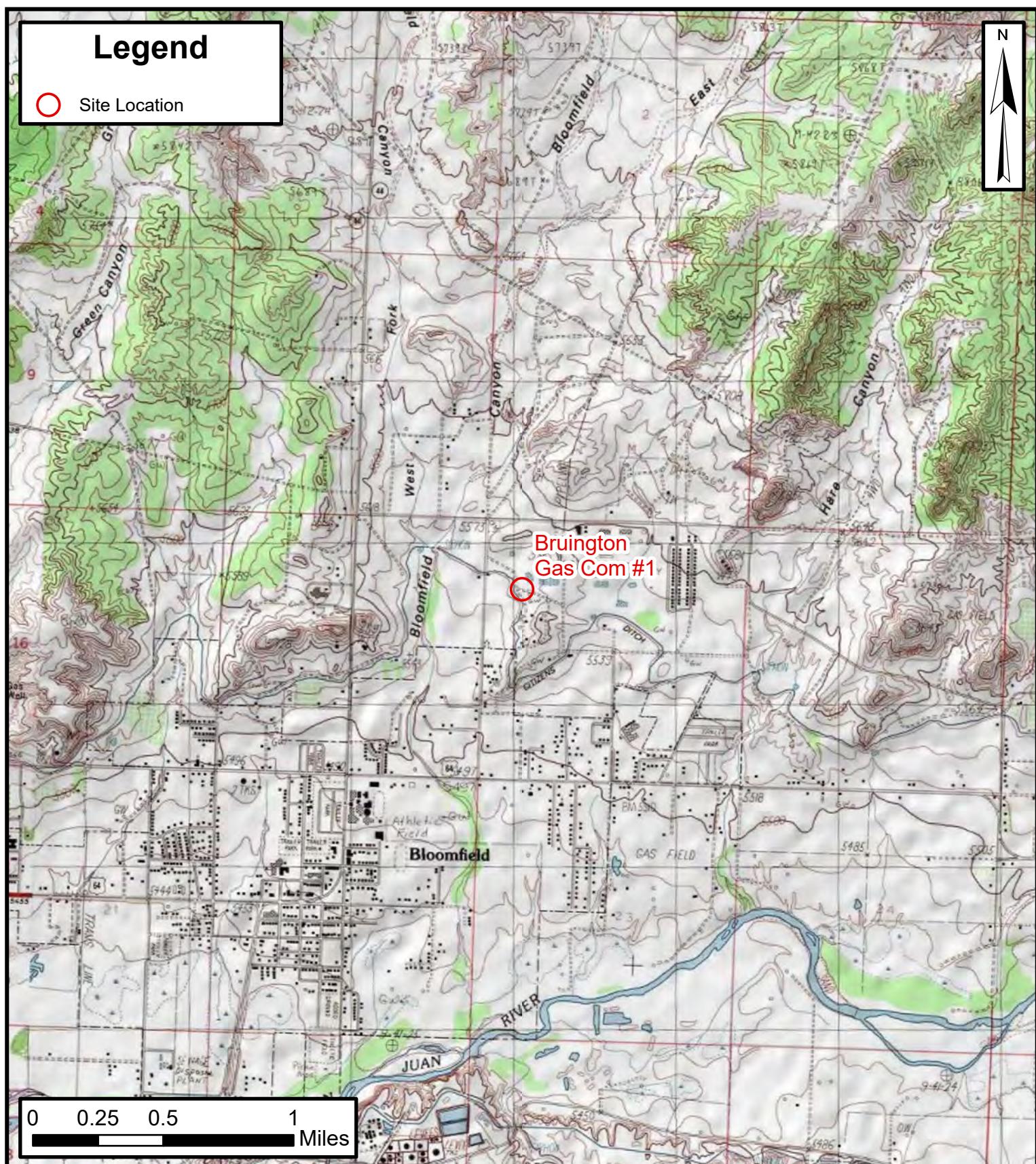
## Attachments:

- |  |  |
|--|--|
| Figure 1                                 | Site Location Map  |
| Figure 2                                 | Groundwater Elevation and Analytical Results (June 2023)     |
| Figure 3                                 | Groundwater Elevation and Analytical Results (December 2023) |
| Table 1                                  | Groundwater Elevation Summary                                |
| Table 2                                  | Groundwater Analytical Results                               |
| Appendix A Laboratory Analytical Reports |  |



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## FIGURES

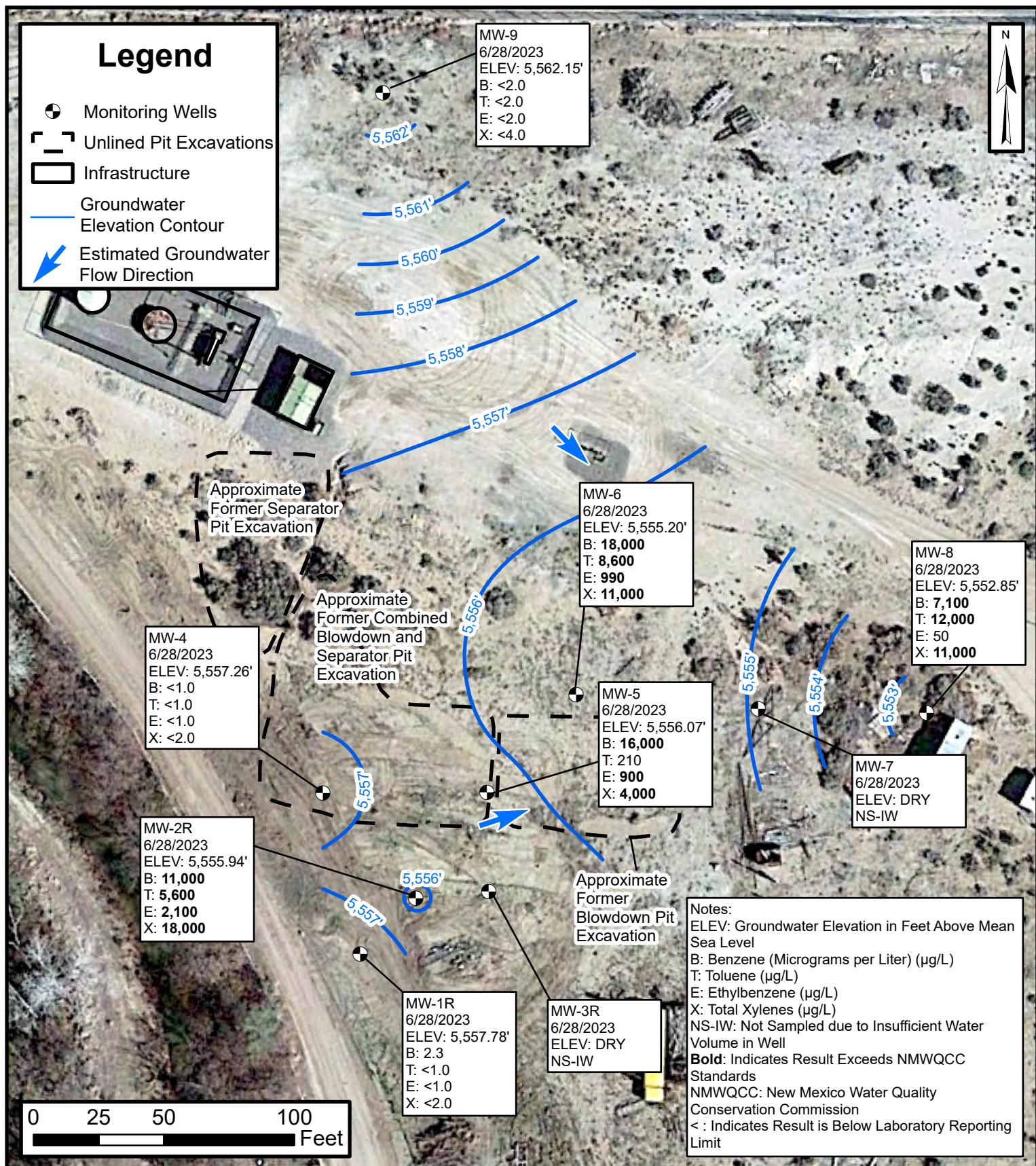


## Site Location Map

Bruington Gas Com #1  
Hilcorp Energy Company  
36.728985, -107.967408  
San Juan County, New Mexico



FIGURE  
**1**

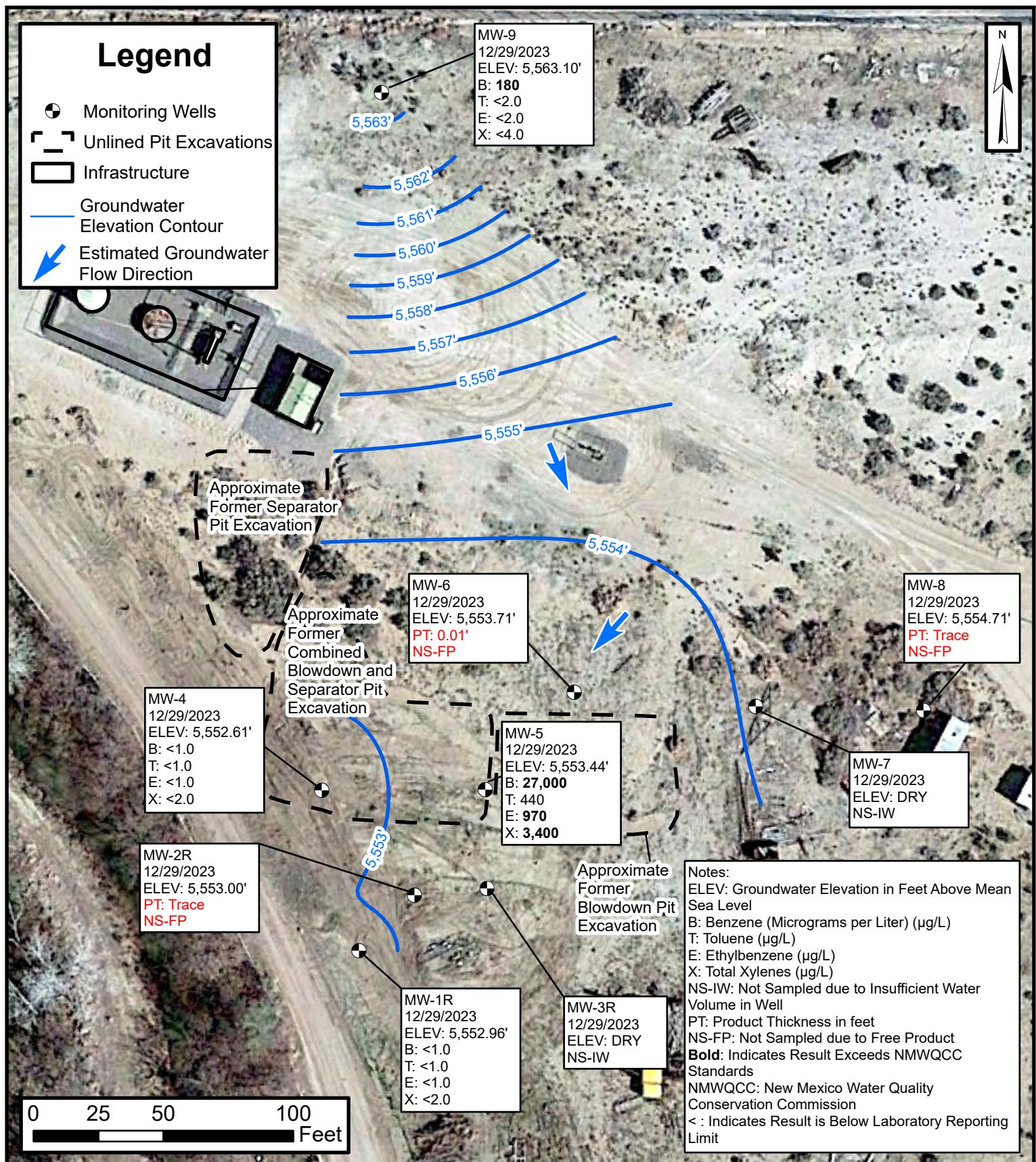


## Groundwater Elevation and Analytical Results (June 2023)

Bruington Gas Com #1  
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36.728985, -107.967408  
San Juan County, New Mexico



FIGURE  
**2**



## Groundwater Elevation and Analytical Results (December 2023)

Bruington Gas Com #1  
Hilcorp Energy Company  
36.728985, -107.967408  
San Juan County, New Mexico



FIGURE  
**3**



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## TABLES



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

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



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| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-1R       | 5,566.63                                  | 6/18/2014  | --                              | 7.00                                   | --                             | 5,559.63                                |
|             |   | 12/10/2014 | --                              | 11.88                                  | --                             | 5,554.75                                |
|             |   | 6/8/2015   | --                              | 6.39                                   | --                             | 5,560.24                                |
|             |   | 12/14/2015 | --                              | 12.45                                  | --                             | 5,554.18                                |
|             |   | 2/19/2016  | --                              | 16.04                                  | --                             | 5,550.59                                |
|             |   | 6/13/2016  | --                              | 8.90                                   | --                             | 5,557.73                                |
|             |   | 12/13/2016 | --                              | 11.85                                  | --                             | 5,554.78                                |
|             |   | 6/28/2017  | --                              | 8.07                                   | --                             | 5,558.56                                |
|             |   | 12/5/2017  | --                              | 11.61                                  | --                             | 5,555.02                                |
|             |   | 6/27/2018  | --                              | 7.27                                   | --                             | 5,559.36                                |
|             |   | 12/11/2018 | --                              | 12.75                                  | --                             | 5,553.88                                |
|             |   | 6/18/2019  | --                              | 8.52                                   | --                             | 5,558.11                                |
|             |   | 12/9/2019  | --                              | 13.85                                  | --                             | 5,552.78                                |
|             |   | 6/11/2020  | --                              | 7.25                                   | --                             | 5,559.38                                |
|             |   | 12/16/2020 | --                              | 13.47                                  | --                             | 5,553.16                                |
|             |   | 6/21/2021  | --                              | 7.49                                   | --                             | 5,559.14                                |
|             |   | 12/16/2021 | --                              | 12.84                                  | --                             | 5,553.79                                |
|             |   | 7/6/2022   | --                              | 7.51                                   | --                             | 5,559.12                                |
|             |   | 12/30/2022 | --                              | 16.25                                  | --                             | 5,550.38                                |
|             |   | 6/28/2023  | --                              | 8.85                                   | --                             | 5,557.78                                |
|             |   | 12/29/2023 | --                              | 13.67                                  | --                             | 5,552.96                                |
| MW-2        | 5,567.99                                  | 6/7/1996   | --                              | 10.12                                  | --                             | 5,557.87                                |
|             |   | 6/27/1997  | --                              | 12.65                                  | --                             | 5,555.34                                |
| MW-2R       | 5,567.99                                  | 6/12/1998  | --                              | 11.00                                  | --                             | 5,556.99                                |
|             |   | 5/5/1999   | --                              | 10.78                                  | --                             | 5,557.21                                |
|             |   | 6/29/2000  | --                              | 11.50                                  | --                             | 5,556.49                                |
|             |   | 5/17/2001  | --                              | 12.12                                  | --                             | 5,555.87                                |
|             |   | 9/24/2001  | --                              | 10.08                                  | --                             | 5,557.91                                |
|             |   | 6/27/2002  | --                              | 9.77                                   | --                             | 5,558.22                                |
|             |   | 6/25/2003  | --                              | 11.53                                  | --                             | 5,556.46                                |
|             |   | 6/18/2004  | --                              | 12.07                                  | --                             | 5,555.92                                |
|             |   | 6/27/2005  | --                              | 10.14                                  | --                             | 5,557.85                                |
|             |   | 4/25/2006  | --                              | 11.64                                  | --                             | 5,556.35                                |
|             |   | 11/10/2006 | --                              | --                                     | --                             | --                                      |
|             |   | 11/27/2006 | --                              | 11.32                                  | --                             | 5,556.67                                |
|             |   | 2/23/2007  | --                              | 12.55                                  | --                             | 5,555.44                                |
|             |   | 3/28/2007  | --                              | 14.72                                  | --                             | 5,553.27                                |
|             |   | 4/11/2007  | --                              | 12.79                                  | --                             | 5,555.20                                |
|             |   | 6/13/2007  | --                              | 9.94                                   | --                             | 5,558.05                                |
|             |   | 8/21/2007  | --                              | 9.36                                   | --                             | 5,558.63                                |
|             |   | 9/25/2007  | --                              | 9.33                                   | --                             | 5,558.66                                |
|             |   | 10/30/2007 | --                              | 9.45                                   | --                             | 5,558.54                                |
|             |   | 11/27/2007 | --                              | 12.02                                  | --                             | 5,555.97                                |



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**San Juan, New Mexico**

| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-2R       | 5,567.99                                  | 12/20/2007 | --                              | 13.13                                  | --                             | 5,554.86                                |
|             |   | 2/26/2008  | --                              | --                                     | --                             | --                                      |
|             |   | 3/12/2008  | --                              | 13.51                                  | --                             | 5,554.48                                |
|             |   | 4/7/2008   | --                              | --                                     | --                             | --                                      |
|             |   | 6/2/2008   | --                              | 10.07                                  | --                             | 5,557.92                                |
|             |   | 8/12/2008  | --                              | 9.38                                   | --                             | 5,558.61                                |
|             |   | 9/22/2008  | --                              | 10.29                                  | --                             | 5,557.70                                |
|             |   | 10/22/2008 | --                              | 9.10                                   | --                             | 5,558.89                                |
|             |   | 12/5/2008  | --                              | 12.05                                  | --                             | 5,555.94                                |
|             |   | 2/6/2009   | --                              | 13.40                                  | --                             | 5,554.59                                |
|             |   | 3/3/2009   | --                              | 15.64                                  | --                             | 5,552.35                                |
|             |   | 6/24/2009  | --                              | 9.16                                   | --                             | 5,558.83                                |
|             |   | 9/15/2009  | --                              | 8.37                                   | --                             | 5,559.62                                |
|             |   | 12/7/2009  | --                              | 11.81                                  | --                             | 5,556.18                                |
|             |   | 3/3/2010   | --                              | 15.41                                  | --                             | 5,552.58                                |
|             |   | 6/21/2010  | --                              | 9.46                                   | --                             | 5,558.53                                |
|             |   | 9/9/2010   | --                              | 9.24                                   | --                             | 5,558.75                                |
|             |   | 1/13/2011  | --                              | 14.42                                  | --                             | 5,553.57                                |
|             |   | 3/2/2011   | --                              | 14.76                                  | --                             | 5,553.23                                |
|             |   | 6/15/2011  | --                              | 9.42                                   | --                             | 5,558.57                                |
|             |   | 12/15/2011 | --                              | 12.99                                  | --                             | 5,555.00                                |
|             |   | 6/14/2012  | --                              | 9.94                                   | --                             | 5,558.05                                |
|             |   | 12/4/2012  | --                              | 12.03                                  | --                             | 5,555.96                                |
|             |   | 6/18/2013  | --                              | 9.80                                   | --                             | 5,558.19                                |
|             |   | 12/17/2013 | --                              | 12.69                                  | --                             | 5,555.30                                |
|             |   | 6/18/2014  | --                              | 9.64                                   | --                             | 5,558.35                                |
|             |   | 12/10/2014 | --                              | 12.61                                  | --                             | 5,555.38                                |
|             |   | 6/8/2015   | --                              | 9.26                                   | --                             | 5,558.73                                |
|             |   | 12/14/2015 | --                              | 12.91                                  | --                             | 5,555.08                                |
|             |   | 2/19/2016  | --                              | 16.56                                  | --                             | 5,551.43                                |
|             |   | 6/13/2016  | --                              | 10.29                                  | --                             | 5,557.70                                |
|             |   | 12/13/2016 | --                              | 12.55                                  | --                             | 5,555.44                                |
|             |   | 6/28/2017  | --                              | 10.53                                  | --                             | 5,557.46                                |
|             |   | 12/5/2017  | --                              | 12.64                                  | --                             | 5,555.35                                |
|             |   | 6/27/2018  | --                              | 10.19                                  | --                             | 5,557.80                                |
|             |   | 12/11/2018 | --                              | 13.63                                  | --                             | 5,554.36                                |
|             |   | 6/18/2019  | --                              | 11.13                                  | --                             | 5,556.86                                |
|             |   | 12/9/2019  | --                              | 14.52                                  | --                             | 5,553.47                                |
|             |   | 6/11/2020  | --                              | 10.21                                  | --                             | 5,557.78                                |
|             |   | 12/16/2020 | --                              | 14.09                                  | --                             | 5,553.90                                |



**TABLE 1**  
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**San Juan, New Mexico**

| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-2R       | 5,567.99                                  | 6/21/2021  | --                              | 9.98                                   | --                             | 5,558.01                                |
|             |   | 12/16/2021 | --                              | 13.47                                  | --                             | 5,554.52                                |
|             |   | 7/6/2022   | --                              | 10.12                                  | --                             | 5,557.87                                |
|             |   | 12/30/2022 | --                              | 17.05                                  | --                             | 5,550.94                                |
|             |   | 6/28/2023  | --                              | 12.05                                  | --                             | 5,555.94                                |
|             |   | 12/29/2023 | --                              | 14.99                                  | --                             | 5,553.00                                |
| MW-3        | Not Measured                              | 6/7/1996   | --                              | 13.05                                  | --                             | --                                      |
|             |   | 5/5/1999   | --                              | 13.64                                  | --                             | --                                      |
|             |   | 6/29/2000  | --                              | 13.52                                  | --                             | --                                      |
|             |   | 5/17/2001  | --                              | 14.51                                  | --                             | --                                      |
|             |   | 9/24/2001  | --                              | 12.15                                  | --                             | --                                      |
| MW-3R       | 5,569.90                                  | 8/25/2003  | --                              | 11.81                                  | --                             | 5,558.09                                |
|             |   | 11/19/2003 | --                              | 12.28                                  | --                             | 5,557.62                                |
|             |   | 4/25/2006  | --                              | 12.56                                  | --                             | 5,557.34                                |
|             |   | 11/10/2006 | --                              | --                                     | --                             | --                                      |
|             |   | 11/27/2006 | --                              | 12.60                                  | --                             | 5,557.30                                |
|             |   | 2/23/2007  | --                              | 14.33                                  | --                             | 5,555.57                                |
|             |   | 3/28/2007  | --                              | 15.83                                  | --                             | 5,554.07                                |
|             |   | 4/11/2007  | --                              | 14.99                                  | --                             | 5,554.91                                |
|             |   | 6/13/2007  | --                              | --                                     | --                             | --                                      |
|             |   | 10/30/2007 | --                              | --                                     | --                             | --                                      |
|             |   | 11/27/2007 | --                              | 13.14                                  | --                             | 5,556.76                                |
|             |   | 12/20/2007 | --                              | 14.25                                  | --                             | 5,555.65                                |
|             |   | 2/26/2008  | --                              | --                                     | --                             | --                                      |
|             |   | 3/12/2008  | --                              | 15.23                                  | --                             | 5,554.67                                |
|             |   | 4/7/2008   | --                              | --                                     | --                             | --                                      |
|             |   | 6/2/2008   | --                              | 12.07                                  | --                             | 5,557.83                                |
|             |   | 8/12/2008  | --                              | 11.15                                  | --                             | 5,558.75                                |
|             |   | 9/22/2008  | --                              | 11.86                                  | --                             | 5,558.04                                |
|             |   | 10/22/2008 | --                              | 11.80                                  | --                             | 5,558.10                                |
|             |   | 12/5/2008  | --                              | 13.23                                  | --                             | 5,556.67                                |
|             |   | 2/6/2009   | --                              | 14.82                                  | --                             | 5,555.08                                |
|             |   | 3/3/2009   | --                              | 16.37                                  | --                             | 5,553.53                                |
|             |   | 6/24/2009  | --                              | 11.52                                  | --                             | 5,558.38                                |
|             |   | 9/15/2009  | --                              | 10.66                                  | --                             | 5,559.24                                |
|             |   | 12/7/2009  | --                              | 12.63                                  | --                             | 5,557.27                                |
|             |   | 3/3/2010   | --                              | 16.09                                  | --                             | 5,553.81                                |
|             |   | 6/21/2010  | --                              | 11.59                                  | --                             | 5,558.31                                |
|             |   | 9/9/2010   | --                              | 11.18                                  | --                             | 5,558.72                                |
|             |   | 1/13/2011  | --                              | 16.77                                  | --                             | 5,553.13                                |
|             | 5,571.40*                                 | 3/2/2011   | --                              | 17.21                                  | --                             | 5,554.19                                |
|             |   | 6/15/2011  | --                              | 13.42                                  | --                             | 5,557.98                                |



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

| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-3R       | 5,571.40*                                 | 12/15/2011 | --                              | 15.22                                  | --                             | 5,556.18                                |
|             |   | 6/14/2012  | --                              | 13.80                                  | --                             | 5,557.60                                |
|             |   | 12/4/2012  | --                              | 14.82                                  | --                             | 5,556.58                                |
|             |   | 6/18/2013  | --                              | 13.63                                  | --                             | 5,557.77                                |
|             |   | 12/17/2013 | --                              | 15.36                                  | --                             | 5,556.04                                |
|             |   | 6/18/2014  | --                              | 13.37                                  | --                             | 5,558.03                                |
|             |   | 12/10/2014 | --                              | 15.71                                  | --                             | 5,555.69                                |
|             |   | 6/8/2015   | --                              | 13.22                                  | --                             | 5,558.18                                |
|             |   | 12/14/2015 | --                              | 14.94                                  | --                             | 5,556.46                                |
|             |   | 2/19/2016  | --                              | 18.38                                  | --                             | 5,553.02                                |
|             |   | 6/13/2016  | --                              | 14.38                                  | --                             | 5,557.02                                |
|             |   | 12/13/2016 | --                              | 15.25                                  | --                             | 5,556.15                                |
|             |   | 6/28/2017  | --                              | 14.07                                  | --                             | 5,557.33                                |
|             |   | 12/5/2017  | --                              | 15.34                                  | --                             | 5,556.06                                |
|             |   | 6/27/2018  | --                              | 14.06                                  | --                             | 5,557.34                                |
|             |   | 12/11/2018 | --                              | 16.14                                  | --                             | 5,555.26                                |
|             |   | 6/18/2019  | --                              | 15.23                                  | --                             | 5,556.17                                |
|             |   | 12/9/2019  | --                              | --                                     | --                             | --                                      |
|             |   | 6/11/2020  | --                              | 15.03                                  | --                             | 5,556.37                                |
|             |   | 12/16/2020 | --                              | --                                     | --                             | --                                      |
|             |   | 6/21/2021  | --                              | --                                     | --                             | --                                      |
|             |   | 12/16/2021 | --                              | --                                     | --                             | --                                      |
|             |   | 7/6/2022   |                                 | Dry                                    |                                |   |
|             |   | 12/30/2022 |                                 | Dry                                    |                                |   |
|             |   | 6/28/2023  |                                 | Dry                                    |                                |   |
|             |   | 12/29/2023 |                                 | Dry                                    |                                |   |
| MW-4        | 5,568.45                                  | 5/17/2001  | --                              | 10.88                                  | --                             | 5,557.57                                |
|             |   | 4/25/2006  | --                              | 11.11                                  | --                             | 5,557.34                                |
|             |   | 11/10/2006 | --                              | --                                     | --                             | --                                      |
|             |   | 11/27/2006 | --                              | 12.41                                  | --                             | 5,556.04                                |
|             |   | 2/23/2007  | --                              | 13.62                                  | --                             | 5,554.83                                |
|             |   | 3/28/2007  | --                              | 16.17                                  | --                             | 5,552.28                                |
|             |   | 4/11/2007  | --                              | 13.34                                  | --                             | 5,555.11                                |
|             |   | 6/13/2007  | --                              | 9.87                                   | --                             | 5,558.58                                |
|             |   | 8/21/2007  | --                              | 9.35                                   | --                             | 5,559.10                                |
|             |   | 9/25/2007  | --                              | 9.24                                   | --                             | 5,559.21                                |
|             |   | 10/30/2007 | --                              | 9.75                                   | --                             | 5,558.70                                |
|             |   | 11/27/2007 | --                              | 13.43                                  | --                             | 5,555.02                                |
|             |   | 12/20/2007 | --                              | 14.91                                  | --                             | 5,553.54                                |
|             |   | 2/26/2008  | --                              | --                                     | --                             | --                                      |
|             |   | 3/12/2008  | --                              | 15.09                                  | --                             | 5,553.36                                |
|             |   | 4/7/2008   | --                              | --                                     | --                             | --                                      |
|             |   | 6/2/2008   | --                              | 9.59                                   | --                             | 5,558.86                                |



**TABLE 1**  
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**San Juan, New Mexico**

| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-4        | 5,568.45                                  | 8/12/2008  | --                              | 8.97                                   | --                             | 5,559.48                                |
|             |   | 9/22/2008  | --                              | 9.96                                   | --                             | 5,558.49                                |
|             |   | 10/22/2008 | --                              | 8.53                                   | --                             | 5,559.92                                |
|             |   | 12/5/2008  | --                              | 13.21                                  | --                             | 5,555.24                                |
|             |   | 2/6/2009   | --                              | 14.35                                  | --                             | 5,554.10                                |
|             |   | 3/3/2009   | --                              | 17.06                                  | --                             | 5,551.39                                |
|             |   | 6/24/2009  | --                              | 8.10                                   | --                             | 5,560.35                                |
|             |   | 9/15/2009  | --                              | 8.17                                   | --                             | 5,560.28                                |
|             |   | 12/7/2009  | --                              | 13.11                                  | --                             | 5,555.34                                |
|             |   | 3/3/2010   | --                              | 17.08                                  | --                             | 5,551.37                                |
|             |   | 6/21/2010  | --                              | 9.00                                   | --                             | 5,559.45                                |
|             |   | 9/9/2010   | --                              | 8.83                                   | --                             | 5,559.62                                |
|             |   | 1/13/2011  | --                              | 15.63                                  | --                             | 5,552.82                                |
|             |   | 3/2/2011   | --                              | 15.65                                  | --                             | 5,552.80                                |
|             |   | 6/15/2011  | --                              | 9.23                                   | --                             | 5,559.22                                |
|             |   | 12/15/2011 | --                              | 14.16                                  | --                             | 5,554.29                                |
|             |   | 6/14/2012  | --                              | 9.71                                   | --                             | 5,558.74                                |
|             |   | 12/4/2012  | --                              | 13.39                                  | --                             | 5,555.06                                |
|             |   | 6/18/2013  | --                              | 9.55                                   | --                             | 5,558.90                                |
|             |   | 12/17/2013 | --                              | 14.13                                  | --                             | 5,554.32                                |
|             |   | 6/18/2014  | --                              | 9.48                                   | --                             | 5,558.97                                |
|             |   | 12/10/2014 | --                              | 13.87                                  | --                             | 5,554.58                                |
|             |   | 6/8/2015   | --                              | 8.81                                   | --                             | 5,559.64                                |
|             |   | 12/14/2015 | --                              | 14.31                                  | --                             | 5,554.14                                |
|             |   | 2/19/2016  | --                              | 17.94                                  | --                             | 5,550.51                                |
|             |   | 6/13/2016  | --                              | 10.00                                  | --                             | 5,558.45                                |
|             |   | 12/13/2016 | --                              | 13.85                                  | --                             | 5,554.60                                |
|             |   | 6/28/2017  | --                              | 10.50                                  | --                             | 5,557.95                                |
|             |   | 12/5/2017  | --                              | 13.70                                  | --                             | 5,554.75                                |
|             |   | 6/27/2018  | --                              | 9.70                                   | --                             | 5,558.75                                |
|             |   | 12/11/2018 | --                              | 14.85                                  | --                             | 5,553.60                                |
|             |   | 6/18/2019  | --                              | 11.12                                  | --                             | 5,557.33                                |
|             |   | 12/9/2019  | --                              | 15.94                                  | --                             | 5,552.51                                |
|             |   | 6/11/2020  | --                              | 9.70                                   | --                             | 5,558.75                                |
|             |   | 12/16/2020 | --                              | 15.55                                  | --                             | 5,552.90                                |
|             |   | 6/21/2021  | --                              | 9.99                                   | --                             | 5,558.46                                |
|             |   | 12/16/2021 | --                              | 14.91                                  | --                             | 5,553.54                                |
|             |   | 7/6/2022   | --                              | 9.81                                   | --                             | 5,558.64                                |
|             |   | 12/30/2022 |                                 | Dry                                    |                                |   |
|             |   | 6/28/2023  | --                              | 11.19                                  | --                             | 5,557.26                                |
|             |   | 12/29/2023 | --                              | 15.84                                  | --                             | 5,552.61                                |



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| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-5        | 5,572.07                                  | 5/17/2001  | --                              | 16.00                                  | --                             | 5,556.07                                |
|             |   | 9/24/2001  | --                              | 13.70                                  | --                             | 5,558.37                                |
|             |   | 6/27/2002  | --                              | 13.83                                  | --                             | 5,558.24                                |
|             |   | 6/25/2003  | --                              | 15.73                                  | --                             | 5,556.34                                |
|             |   | 6/18/2004  | --                              | 15.82                                  | --                             | 5,556.25                                |
|             |   | 6/27/2005  | --                              | 14.21                                  | --                             | 5,557.86                                |
|             |   | 4/25/2006  | --                              | 16.21                                  | --                             | 5,555.86                                |
|             |   | 11/10/2006 | --                              | --                                     | --                             | --                                      |
|             |   | 11/27/2006 | --                              | 15.24                                  | --                             | 5,556.83                                |
|             |   | 2/23/2007  | --                              | 18.92                                  | --                             | 5,553.15                                |
|             |   | 3/28/2007  | --                              | 18.63                                  | --                             | 5,553.44                                |
|             |   | 4/11/2007  | --                              | 17.48                                  | --                             | 5,554.59                                |
|             |   | 6/13/2007  | --                              | 14.17                                  | --                             | 5,557.90                                |
|             |   | 8/21/2007  | --                              | 14.12                                  | --                             | 5,557.95                                |
|             |   | 9/25/2007  | --                              | 13.38                                  | --                             | 5,558.69                                |
|             |   | 10/30/2007 | --                              | 13.57                                  | --                             | 5,558.50                                |
|             |   | 11/27/2007 | --                              | 16.13                                  | --                             | 5,555.94                                |
|             |   | 12/20/2007 | --                              | 17.34                                  | --                             | 5,554.73                                |
|             |   | 2/26/2008  | --                              | --                                     | --                             | --                                      |
|             |   | 3/12/2008  | --                              | 17.75                                  | --                             | 5,554.32                                |
|             |   | 4/7/2008   | --                              | --                                     | --                             | --                                      |
|             |   | 6/2/2008   | --                              | 13.92                                  | --                             | 5,558.15                                |
|             |   | 8/12/2008  | --                              | 12.99                                  | --                             | 5,559.08                                |
|             |   | 9/22/2008  | --                              | 13.80                                  | --                             | 5,558.27                                |
|             |   | 10/22/2008 | --                              | 12.77                                  | --                             | 5,559.30                                |
|             |   | 12/5/2008  | --                              | 15.93                                  | --                             | 5,556.14                                |
|             |   | 2/6/2009   | --                              | 17.33                                  | --                             | 5,554.74                                |
|             |   | 3/3/2009   | --                              | 19.26                                  | --                             | 5,552.81                                |
|             |   | 6/24/2009  | --                              | 13.34                                  | --                             | 5,558.73                                |
|             |   | 9/15/2009  | --                              | 12.56                                  | --                             | 5,559.51                                |
|             |   | 12/7/2009  | --                              | 15.71                                  | --                             | 5,556.36                                |
|             |   | 3/3/2010   | --                              | 19.29                                  | --                             | 5,552.78                                |
|             |   | 6/21/2010  | --                              | 13.61                                  | --                             | 5,558.46                                |
|             |   | 9/9/2010   | --                              | 13.03                                  | --                             | 5,559.04                                |
|             |   | 1/13/2011  | --                              | 18.08                                  | --                             | 5,553.99                                |
|             |   | 3/2/2011   | --                              | 18.41                                  | --                             | 5,553.66                                |
|             |   | 6/15/2011  | --                              | 13.89                                  | --                             | 5,558.18                                |
|             |   | 12/15/2011 | --                              | 16.75                                  | --                             | 5,555.32                                |
|             |   | 6/14/2012  | --                              | 14.23                                  | --                             | 5,557.84                                |
|             |   | 12/4/2012  | --                              | 16.11                                  | --                             | 5,555.96                                |
|             |   | 6/18/2013  | --                              | 14.05                                  | --                             | 5,558.02                                |
|             |   | 12/17/2013 | --                              | 16.74                                  | --                             | 5,555.33                                |
|             |   | 6/18/2014  | --                              | 13.91                                  | --                             | 5,558.16                                |
|             |   | 12/10/2014 | --                              | 16.52                                  | --                             | 5,555.55                                |



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| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-5        | 5,572.07                                  | 6/8/2015   | --                              | 13.61                                  | --                             | 5,558.46                                |
|             |   | 12/14/2015 | --                              | 16.78                                  | --                             | 5,555.29                                |
|             |   | 2/19/2016  | --                              | 19.93                                  | --                             | 5,552.14                                |
|             |   | 6/13/2016  | --                              | 14.72                                  | --                             | 5,557.35                                |
|             |   | 12/13/2016 | --                              | 16.61                                  | --                             | 5,555.46                                |
|             |   | 6/28/2017  | --                              | 14.59                                  | --                             | 5,557.48                                |
|             |   | 12/5/2017  | --                              | 16.65                                  | --                             | 5,555.42                                |
|             |   | 6/27/2018  | --                              | 14.21                                  | --                             | 5,557.86                                |
|             |   | 12/11/2018 | --                              | 17.55                                  | --                             | 5,554.52                                |
|             |   | 6/18/2019  | --                              | 15.70                                  | --                             | 5,556.37                                |
|             |   | 12/9/2019  | --                              | 18.22                                  | --                             | 5,553.85                                |
|             |   | 6/11/2020  | --                              | 15.12                                  | --                             | 5,556.95                                |
|             |   | 12/16/2020 | --                              | 17.95                                  | --                             | 5,554.12                                |
|             |   | 6/21/2021  | --                              | 14.65                                  | --                             | 5,557.42                                |
|             |   | 12/16/2021 | --                              | 17.38                                  | --                             | 5,554.69                                |
|             |   | 7/6/2022   | --                              | 15.33                                  | --                             | 5,556.74                                |
|             |   | 12/30/2022 | --                              | 19.23                                  | --                             | 5,552.84                                |
|             |   | 6/28/2023  | --                              | 16.00                                  | --                             | 5,556.07                                |
|             |   | 12/29/2023 | --                              | 18.63                                  | --                             | 5,553.44                                |
| MW-6        | 5,574.33                                  | 5/17/2001  | --                              | 19.47                                  | --                             | 5,554.86                                |
|             |   | 9/24/2001  | --                              | 14.46                                  | --                             | 5,559.87                                |
|             |   | 6/27/2002  | --                              | 16.68                                  | --                             | 5,557.65                                |
|             |   | 6/25/2003  | --                              | 18.94                                  | --                             | 5,555.39                                |
|             |   | 6/18/2004  | --                              | 18.71                                  | --                             | 5,555.62                                |
|             |   | 6/27/2005  | --                              | 17.09                                  | --                             | 5,557.24                                |
|             |   | 4/25/2006  | --                              | 19.28                                  | --                             | 5,555.05                                |
|             |   | 11/10/2006 | --                              | --                                     | --                             | --                                      |
|             |   | 11/27/2006 | --                              | 17.08                                  | --                             | 5,557.25                                |
|             |   | 2/23/2007  | --                              | 18.92                                  | --                             | 5,555.41                                |
|             |   | 3/28/2007  | --                              | 20.36                                  | --                             | 5,553.97                                |
|             |   | 4/11/2007  | --                              | 19.69                                  | --                             | 5,554.64                                |
|             |   | 6/13/2007  | --                              | 16.87                                  | --                             | 5,557.46                                |
|             |   | 8/21/2007  | --                              | 16.04                                  | --                             | 5,558.29                                |
|             |   | 9/25/2007  | --                              | 15.98                                  | --                             | 5,558.35                                |
|             |   | 10/30/2007 | --                              | 15.91                                  | --                             | 5,558.42                                |
|             |   | 11/27/2007 | --                              | 17.79                                  | --                             | 5,556.54                                |
|             |   | 12/20/2007 | --                              | 18.83                                  | --                             | 5,555.50                                |
|             |   | 2/26/2008  | --                              | --                                     | --                             | --                                      |
|             |   | 3/12/2008  | --                              | 19.42                                  | --                             | 5,554.91                                |
|             |   | 4/7/2008   | --                              | --                                     | --                             | --                                      |
|             |   | 6/2/2008   | --                              | 16.61                                  | --                             | 5,557.72                                |
|             |   | 8/12/2008  | --                              | 15.61                                  | --                             | 5,558.72                                |
|             |   | 9/22/2008  | --                              | 16.15                                  | --                             | 5,558.18                                |
|             |   | 10/22/2008 | --                              | 15.49                                  | --                             | 5,558.84                                |
|             |   | 12/5/2008  | --                              | 17.70                                  | --                             | 5,556.63                                |



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**Bruington Gas Com #1**  
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| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-6        | 5,574.33                                  | 2/6/2009   | --                              | 19.33                                  | --                             | 5,555.00                                |
|             |   | 3/3/2009   | --                              | 20.67                                  | --                             | 5,553.66                                |
|             |   | 6/24/2009  | --                              | 16.18                                  | --                             | 5,558.15                                |
|             |   | 9/15/2009  | --                              | 15.25                                  | --                             | 5,559.08                                |
|             |   | 12/7/2009  | --                              | 17.52                                  | --                             | 5,556.81                                |
|             |   | 3/3/2010   | --                              | 20.69                                  | --                             | 5,553.64                                |
|             |   | 6/21/2010  | --                              | 16.44                                  | --                             | 5,557.89                                |
|             |   | 9/9/2010   | --                              | 15.60                                  | --                             | 5,558.73                                |
|             |   | 1/13/2011  | --                              | 19.55                                  | --                             | 5,554.78                                |
|             |   | 3/2/2011   | --                              | 20.08                                  | --                             | 5,554.25                                |
|             |   | 6/15/2011  | --                              | 16.55                                  | --                             | 5,557.78                                |
|             |   | 12/15/2011 | --                              | 18.32                                  | --                             | 5,556.01                                |
|             |   | 6/14/2012  | --                              | 17.05                                  | --                             | 5,557.28                                |
|             |   | 12/4/2012  | --                              | 17.92                                  | --                             | 5,556.41                                |
|             |   | 6/18/2013  | --                              | 16.91                                  | --                             | 5,557.42                                |
|             |   | 12/17/2013 | --                              | 18.48                                  | --                             | 5,555.85                                |
|             |   | 6/18/2014  | --                              | 16.68                                  | --                             | 5,557.65                                |
|             |   | 12/10/2014 | --                              | 18.28                                  | --                             | 5,556.05                                |
|             |   | 6/8/2015   | --                              | 16.53                                  | --                             | 5,557.80                                |
|             |   | 12/14/2015 | --                              | 18.30                                  | --                             | 5,556.03                                |
|             |   | 2/19/2016  | --                              | 21.38                                  | --                             | 5,552.95                                |
|             |   | 6/13/2016  | --                              | 18.56                                  | --                             | 5,555.77                                |
|             |   | 12/13/2016 | --                              | 18.38                                  | --                             | 5,555.95                                |
|             |   | 6/28/2017  | --                              | 17.23                                  | --                             | 5,557.10                                |
|             |   | 12/5/2017  | --                              | 18.45                                  | --                             | 5,555.88                                |
|             |   | 6/27/2018  | --                              | 17.90                                  | --                             | 5,556.43                                |
|             |   | 12/11/2018 | --                              | 19.24                                  | --                             | 5,555.09                                |
|             |   | 6/18/2019  | --                              | 18.49                                  | --                             | 5,555.84                                |
|             |   | 12/9/2019  | --                              | 20.12                                  | --                             | 5,554.21                                |
|             |   | 6/11/2020  | --                              | 18.18                                  | --                             | 5,556.15                                |
|             |   | 12/16/2020 | --                              | 19.80                                  | --                             | 5,554.53                                |
|             |   | 6/21/2021  | --                              | 17.65                                  | --                             | 5,556.68                                |
|             |   | 12/16/2021 | --                              | 19.21                                  | --                             | 5,555.12                                |
|             |   | 7/6/2022   | --                              | 17.98                                  | --                             | 5,556.35                                |
|             |   | 12/30/2022 | --                              | 21.88                                  | --                             | 5,552.45                                |
|             |   | 6/28/2023  | --                              | 19.13                                  | --                             | 5,555.20                                |
|             |   | 12/29/2023 | 20.62                           | 20.63                                  | 0.01                           | 5,553.71                                |
| MW-7        | 5,573.88                                  | 8/25/2003  | --                              | 17.93                                  | --                             | 5,555.95                                |
|             |   | 6/18/2004  | --                              | 18.87                                  | --                             | 5,555.01                                |
|             |   | 6/27/2005  | --                              | 17.40                                  | --                             | 5,556.48                                |
|             |   | 4/25/2006  | --                              | 19.14                                  | --                             | 5,554.74                                |
|             |   | 11/10/2006 | --                              | --                                     | --                             | --                                      |
|             |   | 11/27/2006 | --                              | 16.94                                  | --                             | 5,556.94                                |
|             |   | 2/23/2007  | --                              | 17.71                                  | --                             | 5,556.17                                |



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

| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-7        | 5,573.88                                  | 3/28/2007  | --                              | 18.62                                  | --                             | 5,555.26                                |
|             |   | 4/11/2007  | --                              | 18.63                                  | --                             | 5,555.25                                |
|             |   | 6/13/2007  | --                              | 16.75                                  | --                             | 5,557.13                                |
|             |   | 8/21/2007  | --                              | 15.86                                  | --                             | 5,558.02                                |
|             |   | 9/25/2007  | --                              | 15.65                                  | --                             | 5,558.23                                |
|             |   | 10/30/2007 | --                              | 15.46                                  | --                             | 5,558.42                                |
|             |   | 11/27/2007 | --                              | 16.46                                  | --                             | 5,557.42                                |
|             |   | 12/20/2007 | --                              | 17.14                                  | --                             | 5,556.74                                |
|             |   | 2/26/2008  | --                              | --                                     | --                             | --                                      |
|             |   | 3/12/2008  | --                              | 17.23                                  | --                             | 5,556.65                                |
|             |   | 4/7/2008   | --                              | --                                     | --                             | --                                      |
|             |   | 6/2/2008   | --                              | 16.22                                  | --                             | 5,557.66                                |
|             |   | 8/12/2008  | --                              | 15.30                                  | --                             | 5,558.58                                |
|             |   | 9/22/2008  | --                              | 15.47                                  | --                             | 5,558.41                                |
|             |   | 10/22/2008 | --                              | 15.22                                  | --                             | 5,558.66                                |
|             |   | 12/5/2008  | --                              | 16.23                                  | --                             | 5,557.65                                |
|             |   | 2/6/2009   | --                              | 17.85                                  | --                             | 5,556.03                                |
|             |   | 3/3/2009   | --                              | 18.60                                  | --                             | 5,555.28                                |
|             |   | 6/24/2009  | --                              | 16.38                                  | --                             | 5,557.50                                |
|             |   | 9/15/2009  | --                              | 15.21                                  | --                             | 5,558.67                                |
|             |   | 12/7/2009  | --                              | 16.05                                  | --                             | 5,557.83                                |
|             |   | 3/3/2010   | --                              | 18.64                                  | --                             | 5,555.24                                |
|             |   | 6/21/2010  | --                              | 16.58                                  | --                             | 5,557.30                                |
|             |   | 9/9/2010   | --                              | 15.49                                  | --                             | 5,558.39                                |
|             |   | 1/13/2011  | --                              | 17.78                                  | --                             | 5,556.10                                |
|             |   | 3/2/2011   | --                              | 18.54                                  | --                             | 5,555.34                                |
|             |   | 6/15/2011  | --                              | 16.72                                  | --                             | 5,557.16                                |
|             |   | 12/15/2011 | --                              | 16.75                                  | --                             | 5,557.13                                |
|             |   | 6/14/2012  | --                              | 17.23                                  | --                             | 5,556.65                                |
|             |   | 12/4/2012  | --                              | 16.53                                  | --                             | 5,557.35                                |
|             |   | 6/18/2013  | --                              | 17.07                                  | --                             | 5,556.81                                |
|             |   | 12/17/2013 | --                              | 17.02                                  | --                             | 5,556.86                                |
|             |   | 6/18/2014  | --                              | 16.75                                  | --                             | 5,557.13                                |
|             |   | 12/10/2014 | --                              | 16.92                                  | --                             | 5,556.96                                |
|             |   | 6/8/2015   | --                              | 16.74                                  | --                             | 5,557.14                                |
|             |   | 12/14/2015 | --                              | 16.72                                  | --                             | 5,557.16                                |
|             |   | 2/19/2016  | --                              | 19.37                                  | --                             | 5,554.51                                |
|             |   | 6/13/2016  | --                              | 17.82                                  | --                             | 5,556.06                                |
|             |   | 12/13/2016 | --                              | 17.56                                  | --                             | 5,556.32                                |
|             |   | 6/28/2017  | --                              | 17.15                                  | --                             | 5,556.73                                |
|             |   | 12/5/2017  | --                              | 17.24                                  | --                             | 5,556.64                                |
|             |   | 6/27/2018  | --                              | 17.32                                  | --                             | 5,556.56                                |



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

| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-7        | 5,573.88                                  | 12/11/2018 | --                              | 18.13                                  | --                             | 5,555.75                                |
|             |   | 6/18/2019  | --                              | 18.68                                  | --                             | 5,555.20                                |
|             |   | 12/9/2019  | --                              | 18.70                                  | --                             | 5,555.18                                |
|             |   | 6/11/2020  | 18.56                           | 19.70                                  | 1.14                           | 5,555.09                                |
|             |   | 12/16/2020 | --                              | 18.37                                  | --                             | 5,555.51                                |
|             |   | 6/21/2021  | --                              | 18.15                                  | --                             | 5,555.73                                |
|             |   | 12/16/2021 | --                              | --                                     | --                             | --                                      |
|             |   | 7/6/2022   | --                              | 21.53                                  | --                             | 5,552.35                                |
|             |   | 12/30/2022 | --                              | --                                     | --                             | --                                      |
|             |   | 6/28/2023  | --                              | --                                     | --                             | --                                      |
|             |   | 12/29/2023 | --                              | --                                     | --                             | --                                      |
| MW-8        | 5,576.04                                  | 6/13/2007  | --                              | 19.19                                  | --                             | 5,556.85                                |
|             |   | 8/21/2007  | --                              | 18.30                                  | --                             | 5,557.74                                |
|             |   | 9/25/2007  | --                              | 18.00                                  | --                             | 5,558.04                                |
|             |   | 10/30/2007 | --                              | 15.46                                  | --                             | 5,560.58                                |
|             |   | 11/27/2007 | --                              | 18.30                                  | --                             | 5,557.74                                |
|             |   | 12/20/2007 | --                              | 18.81                                  | --                             | 5,557.23                                |
|             |   | 2/26/2008  | --                              | --                                     | --                             | --                                      |
|             |   | 3/12/2008  | --                              | 18.92                                  | --                             | 5,557.12                                |
|             |   | 4/7/2008   | --                              | --                                     | --                             | --                                      |
|             |   | 6/2/2008   | --                              | 18.23                                  | --                             | 5,557.81                                |
|             |   | 8/12/2008  | --                              | 17.52                                  | --                             | 5,558.52                                |
|             |   | 9/22/2008  | --                              | 17.56                                  | --                             | 5,558.48                                |
|             |   | 10/22/2008 | --                              | 17.47                                  | --                             | 5,558.57                                |
|             |   | 12/5/2008  | --                              | 17.99                                  | --                             | 5,558.05                                |
|             |   | 2/6/2009   | --                              | 19.50                                  | --                             | 5,556.54                                |
|             |   | 3/3/2009   | --                              | 20.03                                  | --                             | 5,556.01                                |
|             |   | 6/24/2009  | --                              | 19.00                                  | --                             | 5,557.04                                |
|             |   | 9/15/2009  | --                              | 17.74                                  | --                             | 5,558.30                                |
|             |   | 12/7/2009  | --                              | 17.81                                  | --                             | 5,558.23                                |
|             |   | 3/3/2010   | --                              | 20.11                                  | --                             | 5,555.93                                |
|             |   | 6/21/2010  | --                              | 19.31                                  | --                             | 5,556.73                                |
|             |   | 9/9/2010   | --                              | 18.02                                  | --                             | 5,558.02                                |
|             |   | 1/13/2011  | --                              | 19.35                                  | --                             | 5,556.69                                |
|             |   | 3/2/2011   | --                              | 21.09                                  | --                             | 5,554.95                                |
|             |   | 6/15/2011  | --                              | 19.38                                  | --                             | 5,556.66                                |
|             |   | 12/15/2011 | --                              | 18.53                                  | --                             | 5,557.51                                |
|             |   | 6/14/2012  | --                              | 19.93                                  | --                             | 5,556.11                                |
|             |   | 12/4/2012  | --                              | 18.34                                  | --                             | 5,557.70                                |
|             |   | 6/18/2013  | --                              | 19.75                                  | --                             | 5,556.29                                |
|             |   | 12/17/2013 | --                              | 18.72                                  | --                             | 5,557.32                                |
|             |   | 6/18/2014  | --                              | 19.39                                  | --                             | 5,556.65                                |



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

| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-8        | 5,576.04                                  | 12/10/2014 | --                              | 17.01                                  | --                             | 5,559.03                                |
|             |   | 6/8/2015   | --                              | 19.51                                  | --                             | 5,556.53                                |
|             |   | 12/14/2015 | --                              | 18.37                                  | --                             | 5,557.67                                |
|             |   | 2/19/2016  | --                              | 20.62                                  | --                             | 5,555.42                                |
|             |   | 6/13/2016  | --                              | 20.41                                  | --                             | 5,555.63                                |
|             |   | 12/13/2016 | --                              | 18.89                                  | --                             | 5,557.15                                |
|             |   | 6/28/2017  | --                              | 19.78                                  | --                             | 5,556.26                                |
|             |   | 12/5/2017  | --                              | 19.10                                  | --                             | 5,556.94                                |
|             |   | 6/27/2018  | --                              | 20.22                                  | --                             | 5,555.82                                |
|             |   | 12/11/2018 | --                              | 18.89                                  | --                             | 5,557.15                                |
|             |   | 6/18/2019  | --                              | 21.75                                  | --                             | 5,554.29                                |
|             |   | 12/9/2019  | --                              | 20.43                                  | --                             | 5,555.61                                |
|             |   | 6/11/2020  | 22.35                           | 22.71                                  | 0.36                           | 5,553.62                                |
|             |   | 12/16/2020 | --                              | 20.08                                  | --                             | 5,555.96                                |
|             |   | 6/21/2021  | --                              | 21.22                                  | --                             | 5,554.82                                |
|             |   | 12/16/2021 | Trace                           | 19.65                                  | Trace                          | 5,556.39                                |
|             |   | 7/6/2022   | --                              | --                                     | --                             | --                                      |
|             |   | 12/30/2022 | --                              | 21.27                                  | --                             | 5,554.77                                |
|             |   | 6/28/2023  | --                              | 23.19                                  | --                             | 5,552.85                                |
|             |   | 12/29/2023 | --                              | 21.33                                  | --                             | 5,554.71                                |
| MW-9        | 5,576.86                                  | 1/13/2011  |                                 | Dry                                    |                                |   |
|             |   | 3/2/2011   | --                              | 21.06                                  | --                             | 5,555.80                                |
|             |   | 6/15/2011  | --                              | 18.78                                  | --                             | 5,558.08                                |
|             |   | 12/15/2011 | --                              | 16.97                                  | --                             | 5,559.89                                |
|             |   | 6/14/2012  | --                              | 18.73                                  | --                             | 5,558.13                                |
|             |   | 12/4/2012  | --                              | 17.09                                  | --                             | 5,559.77                                |
|             |   | 6/18/2013  | --                              | 19.05                                  | --                             | 5,557.81                                |
|             |   | 12/17/2013 | --                              | 15.44                                  | --                             | 5,561.42                                |
|             |   | 6/18/2014  | --                              | 18.80                                  | --                             | 5,558.06                                |
|             |   | 12/10/2014 | --                              | 17.09                                  | --                             | 5,559.77                                |
|             |   | 6/8/2015   | --                              | 18.11                                  | --                             | 5,558.75                                |
|             |   | 12/14/2015 | --                              | 16.35                                  | --                             | 5,560.51                                |
|             |   | 2/19/2016  | --                              | 17.81                                  | --                             | 5,559.05                                |
|             |   | 6/13/2016  | --                              | 18.00                                  | --                             | 5,558.86                                |
|             |   | 12/13/2016 | --                              | 16.40                                  | --                             | 5,560.46                                |
|             |   | 6/28/2017  | --                              | 16.75                                  | --                             | 5,560.11                                |



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

| Well Number | Top of Casing<br>Elevation<br>(feet AMSL) | Date       | Depth to Product<br>(feet BTOC) | Depth to<br>Groundwater<br>(feet BTOC) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |
|-------------|---|------------|---------------------------------|--|--------------------------------|---|
| MW-9        | 5,576.86                                  | 12/5/2017  | --                              | 15.75                                  | --                             | 5,561.11                                |
|             |   | 6/27/2018  | --                              | 17.39                                  | --                             | 5,559.47                                |
|             |   | 12/11/2018 | --                              | 14.57                                  | --                             | 5,562.29                                |
|             |   | 6/18/2019  | --                              | 16.00                                  | --                             | 5,560.86                                |
|             |   | 12/9/2019  | --                              | 14.62                                  | --                             | 5,562.24                                |
|             |   | 6/11/2020  | --                              | 16.55                                  | --                             | 5,560.31                                |
|             |   | 12/16/2020 | --                              | 13.71                                  | --                             | 5,563.15                                |
|             |   | 6/21/2021  | --                              | 15.06                                  | --                             | 5,561.80                                |
|             |   | 12/16/2021 | --                              | 12.82                                  | --                             | 5,564.04                                |
|             |   | 7/6/2022   | --                              | 14.66                                  | --                             | 5,562.20                                |
|             |   | 12/30/2022 | --                              | 13.52                                  | --                             | 5,563.34                                |
|             |   | 6/28/2023  | --                              | 14.71                                  | --                             | 5,562.15                                |
|             |   | 12/29/2023 | --                              | 13.76                                  | --                             | 5,563.10                                |

**Notes:**

\*: Top of Casing Modified, New Elevation

--: indicates no GWEL or PSH measured

AMSL: above mean sea level

BTOC: below top of casing

Trace: Trace amounts of product detected

When product is present, the groundwater elevation is corrected using an estimated density correction factor of 0.7996



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

| Groundwater Sample Identification  | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) |
|------------------------------------|-------------|----------------|----------------|----------------------|----------------------|
| <b>NMWQCC Groundwater Standard</b> |             | <b>5</b>       | <b>1,000</b>   | <b>700</b>           | <b>620</b>           |
| MW-1                               | 7/6/1996    | ND             | ND             | ND                   | ND                   |
| MW-1R                              | 5/5/1999    | 16.5           | 26.0           | 8.1                  | 78.2                 |
| MW-1R                              | 6/29/2000   | 17.0           | ND             | 130.0                | 455.5                |
| MW-1R                              | 5/17/2001   | 29.0           | 19.0           | 33.0                 | 127.0                |
| MW-1R                              | 9/24/2001   | 5.8            | 0.5            | 15.0                 | 36.0                 |
| MW-1R                              | 7/27/2002   | ND             | ND             | 17.0                 | 52.1                 |
| MW-1R                              | 6/25/2003   | 3.1            | ND             | ND                   | ND                   |
| MW-1R                              | 8/25/2003   | ND             | ND             | 2.2                  | 0.9                  |
| MW-1R                              | 4/25/2006   | 1.0            | 1.3            | 1.8                  | 5.9                  |
| MW-1R                              | 11/27/2006  | <1.0           | <1.0           | <1.0                 | <3.0                 |
| MW-1R                              | 3/28/2007   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 6/13/2007   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 9/25/2007   | <1.0           | 1.2            | <1.0                 | <2.0                 |
| MW-1R                              | 3/12/2008   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 6/2/2008    | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 9/22/2008   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 12/5/2008   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 3/3/2009    | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 6/24/2009   | <1.0           | <1.0           | <1.0                 | <3.0                 |
| MW-1R                              | 9/15/2009   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 12/7/2009   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 3/3/2010    | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 6/21/2010   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 9/9/2010    | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-1R                              | 1/13/2011   | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-1R                              | 6/15/2011   | <0.5           | <5.0           | 1.9                  | <1.5                 |
| MW-1R                              | 12/15/2011  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-1R                              | 12/4/2012   | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-1R                              | 12/17/2013  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-1R                              | 12/10/2014  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-1R                              | 12/14/2015  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-1R                              | 12/13/2016  | <0.5           | <1.0           | <0.5                 | <1.5                 |
| MW-1R                              | 12/5/2017   | <0.500         | <1.00          | <0.500               | <1.50                |
| MW-1R                              | 12/11/2018  | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 6/18/2019   | <1.0           | <1.0           | <1.0                 | <1.5                 |
| MW-1R                              | 12/16/2020  | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 12/16/2021  | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 12/30/2022  | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 6/28/2023   | 2.3            | <1.0           | <1.0                 | <2.0                 |
| MW-1R                              | 12/29/2023  | <1.0           | <1.0           | <1.0                 | <2.0                 |



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

| Groundwater Sample Identification | Sample Date | Benzene (µg/L)           | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------------------|-------------|--------------------------|----------------|----------------------|----------------------|
| NMWQCC Groundwater Standard       |             | 5                        | 1,000          | 700                  | 620                  |
| MW-2                              | 6/7/1996    | 347                      | 29             | 156                  | 1,580                |
| MW-2                              | 6/27/1997   | 429                      | 68             | 46                   | 402                  |
| MW-2R                             | 6/12/1998   | 13,440                   | 13,330         | 1,030                | 6,040                |
| MW-2R                             | 5/5/1999    | 1,020                    | 554            | 175                  | 679                  |
| MW-2R                             | 6/29/2000   | 7,600                    | 2,600          | 630                  | 4,210                |
| MW-2R                             | 5/17/2001   | 1,700                    | 320            | 390                  | 1,620                |
| MW-2R                             | 9/24/2001   | 15,000                   | 1,200          | 880                  | 5,900                |
| MW-2R                             | 6/27/2002   | 13,000                   | 1,100          | 680                  | 4,120                |
| MW-2R                             | 6/25/2003   | 3,700                    | 1,000          | 380                  | 2,500                |
| MW-2R                             | 6/18/2004   | 5,500                    | 1,400          | 710                  | 3,500                |
| MW-2R                             | 6/27/2005   | 16,000                   | 1,900          | 900                  | 5,400                |
| MW-2R                             | 4/25/2006   | 5,000                    | 1,100          | 700                  | 3,800                |
| MW-2R                             | 11/27/2006  | 12,000                   | 1,600          | 690                  | 3,900                |
| MW-2R                             | 3/28/2007   | 4,300                    | 1,000          | 810                  | 6,000                |
| MW-2R                             | 6/13/2007   | 13,000                   | 1,100          | 720                  | 4,000                |
| MW-2R                             | 9/25/2007   | 18,000                   | 1,900          | 990                  | 5,500                |
| MW-2R                             | 3/12/2008   | 2,800                    | 890            | 750                  | 5,300                |
| MW-2R                             | 6/2/2008    | 5,900                    | 430            | 510                  | 2,200                |
| MW-2R                             | 9/22/2008   | 18,000                   | 920            | 950                  | 4,900                |
| MW-2R                             | 12/5/2008   | 20,000                   | 1,700          | 1,100                | 5,300                |
| MW-2R                             | 3/3/2009    | 5,500                    | 1,400          | 470                  | 2,900                |
| MW-2R                             | 6/24/2009   | 18,000                   | 2,200          | 970                  | 6,500                |
| MW-2R                             | 9/15/2009   | 18,000                   | 760            | 850                  | 4,400                |
| MW-2R                             | 12/7/2009   | 11,000                   | 1,000          | 720                  | 3,600                |
| MW-2R                             | 3/3/2010    | 2,100                    | 460            | 410                  | 2,400                |
| MW-2R                             | 6/21/2010   | 9,500                    | 960            | 630                  | 3,100                |
| MW-2R                             | 9/9/2010    | 19,000                   | 530            | 940                  | 3,200                |
| MW-2R                             | 1/13/2011   | 16,000                   | 2,500          | 940                  | 4,900                |
| MW-2R                             | 6/15/2011   | 20,000                   | <2,500         | 870                  | 4,200                |
| MW-2R                             | 12/15/2011  | 11,000                   | <2,500         | 710                  | 3,000                |
| MW-2R                             | 12/4/2012   | 11,000                   | 1,400          | 590                  | 2,700                |
| MW-2R                             | 12/17/2013  | 13,000                   | 2,300          | 620                  | 4,400                |
| MW-2R                             | 12/10/2014  | 18,000                   | 1,800          | 860                  | 3,300                |
| MW-2R                             | 12/14/2015  | 13,400                   | 2,570          | 908                  | 6,270                |
| MW-2R                             | 12/13/2016  | 14,000                   | 2,190          | 926                  | 5,600                |
| MW-2R                             | 12/5/2017   | 14,200                   | 1,380          | 837                  | 4,200                |
| MW-2R                             | 12/11/2018  | 15,000                   | 1,800          | 740                  | 4,200                |
| MW-2R                             | 6/18/2019   | 14,000                   | 1,800          | 700                  | 4,300                |
| MW-2R                             | 12/16/2020  | 12,000                   | 5,300          | 1,100                | 11,000               |
| MW-2R                             | 12/16/2021  | 9,100                    | 2,500          | 920                  | 7,300                |
| MW-2R                             | 12/30/2022  | 7,300                    | 1,700          | 580                  | 5,100                |
| MW-2R                             | 6/28/2023   | 11,000                   | 5,600          | 2,100                | 18,000               |
| MW-2R                             | 12/29/2023  | Not sampled, PSH present |                |                      |                      |



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

| Groundwater Sample Identification  | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) |
|------------------------------------|-------------|----------------|----------------|----------------------|----------------------|
| <b>NMWQCC Groundwater Standard</b> |             | <b>5</b>       | <b>1,000</b>   | <b>700</b>           | <b>620</b>           |
| MW-3                               | 6/7/1996    | ND             | 1.8            | ND                   | ND                   |
| MW-3                               | 5/5/1999    | <b>73.2</b>    | 38.3           | 31.2                 | 200.1                |
| MW-3                               | 6/29/2000   | <b>87.0</b>    | ND             | 3.4                  | 8.3                  |
| MW-3                               | 5/17/2001   | ND             | 0.6            | 0.7                  | ND                   |
| MW-3                               | 9/24/2001   | ND             | ND             | ND                   | ND                   |
| MW-3R                              | 8/25/2003   | ND             | ND             | 1.3                  | ND                   |
| MW-3R                              | 11/19/2003  | ND             | ND             | 1.4                  | ND                   |
| MW-3R                              | 4/25/2006   | <1.0           | <1.0           | <1.0                 | <3.0                 |
| MW-3R                              | 11/27/2006  | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 3/28/2007   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 3/12/2008   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 6/2/2008    | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 9/22/2008   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 12/5/2008   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 3/3/2009    | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 6/24/2009   | <b>7.2</b>     | <1.0           | <1.0                 | <3.0                 |
| MW-3R                              | 9/15/2009   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 12/7/2009   | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 3/3/2010    | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 6/21/2010   | <b>75</b>      | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 9/9/2010    | <b>94</b>      | 50             | 4.4                  | 30                   |
| MW-3R                              | 1/13/2011   | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-3R                              | 6/15/2011   | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-3R                              | 12/15/2011  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-3R                              | 12/4/2012   | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-3R                              | 12/17/2013  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-3R                              | 12/10/2014  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-3R                              | 12/14/2015  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-3R                              | 12/13/2016  | <0.5           | <1.0           | <0.5                 | <1.5                 |
| MW-3R                              | 12/5/2017   | <0.500         | <1.00          | <0.500               | <1.50                |
| MW-3R                              | 12/11/2018  | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-3R                              | 6/18/2019   | <1.0           | <1.0           | <1.0                 | <1.5                 |
| MW-3R                              | 12/16/2020  | NS             | NS             | NS                   | NS                   |
| MW-3R                              | 12/16/2021  | NS             | NS             | NS                   | NS                   |
| MW-3R                              | 12/30/2022  | NS             | NS             | NS                   | NS                   |
| MW-3R                              | 6/28/2023   | NS             | NS             | NS                   | NS                   |
| MW-3R                              | 12/29/2023  | NS             | NS             | NS                   | NS                   |



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

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



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

| Groundwater Sample Identification | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------------------|-------------|----------------|----------------|----------------------|----------------------|
| NMWQCC Groundwater Standard       |             | 5              | 1,000          | 700                  | 620                  |
| MW-5                              | 5/17/2001   | 25,000         | 620            | 870                  | 6,610                |
| MW-5                              | 9/24/2001   | 26,000         | 110            | 470                  | 6,900                |
| MW-5                              | 6/27/2002   | 26,000         | 280            | 900                  | 6,670                |
| MW-5                              | 6/25/2003   | 26,000         | ND             | ND                   | 4,400                |
| MW-5                              | 6/18/2004   | 26,000         | ND             | 1,100                | 3,400                |
| MW-5                              | 6/27/2005   | 29,000         | ND             | 920                  | 3,400                |
| MW-5                              | 4/25/2006   | 28,000         | ND             | 1,600                | 2,700                |
| MW-5                              | 11/27/2006  | 22,000         | <250           | 630                  | 1,700                |
| MW-5                              | 3/28/2007   | 30,000         | 590            | 1,700                | 4,600                |
| MW-5                              | 6/13/2007   | 32,000         | 91             | 940                  | 2,000                |
| MW-5                              | 9/25/2007   | 25,000         | 170            | 620                  | 1,700                |
| MW-5                              | 3/12/2008   | 28,000         | 110            | 1,200                | 2,300                |
| MW-5                              | 6/2/2008    | 25,000         | <100           | 1,100                | 1,300                |
| MW-5                              | 9/22/2008   | 20,000         | <200           | 760                  | 1,100                |
| MW-5                              | 12/5/2008   | 24,000         | <100           | 580                  | 1,400                |
| MW-5                              | 3/3/2009    | 9,800          | <100           | 450                  | 920                  |
| MW-5                              | 6/24/2009   | 25,000         | 46             | 40                   | 1,400                |
| MW-5                              | 9/15/2009   | 27,000         | <400           | 770                  | 2,000                |
| MW-5                              | 12/7/2009   | 23,000         | <400           | 690                  | 1,400                |
| MW-5                              | 3/3/2010    | 16,000         | <100           | 350                  | 710                  |
| MW-5                              | 6/21/2010   | 18,000         | <100           | 430                  | 890                  |
| MW-5                              | 9/9/2010    | 25,000         | 130            | 510                  | 1,600                |
| MW-5                              | 1/13/2011   | 17,000         | <500           | 360                  | 900                  |
| MW-5                              | 6/15/2011   | 27,000         | <500           | <50                  | 1,400                |
| MW-5                              | 12/15/2011  | 15,000         | <500           | 310                  | 810                  |
| MW-5                              | 12/4/2012   | 32,000         | <120           | 250                  | 1,500                |
| MW-5                              | 12/17/2013  | 21,000         | 110            | 290                  | 1,100                |
| MW-5                              | 12/10/2014  | 24,000         | <250           | 610                  | 1,400                |
| MW-5                              | 12/14/2015  | 26,700         | 161            | 538                  | 1,050                |
| MW-5                              | 12/13/2016  | 19,200         | 112            | 60.1                 | 1,340                |
| MW-5                              | 12/5/2017   | 13,800         | 128            | 92.4                 | 571                  |
| MW-5                              | 12/11/2018  | 21,000         | 550            | 630                  | 2,000                |
| MW-5                              | 6/18/2019   | 27,000         | 320            | 510                  | 1,300                |
| MW-5                              | 12/16/2020  | 14,000         | 350            | 670                  | 2,500                |
| MW-5                              | 12/16/2021  | 18,000         | 350            | 850                  | 2,500                |
| MW-5                              | 12/30/2022  | 21,000         | 450            | 730                  | 2,100                |
| MW-5                              | 6/28/2023   | 16,000         | 210            | 900                  | 4,000                |
| MW-5                              | 12/29/2023  | 27,000         | 440            | 970                  | 3,400                |



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

| Groundwater Sample Identification | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L)     | Total Xylenes (µg/L) |
|-----------------------------------|-------------|----------------|----------------|--------------------------|----------------------|
| NMWQCC Groundwater Standard       |             | 5              | 1,000          | 700                      | 620                  |
| MW-6                              | 5/17/2001   | 28,000         | 15,000         | 1,000                    | 9,400                |
| MW-6                              | 9/24/2001   | 22,000         | 6,000          | 1,100                    | 6,900                |
| MW-6                              | 6/27/2002   | 28,000         | 16,000         | 990                      | 9,800                |
| MW-6                              | 6/25/2003   | 22,000         | 16,000         | ND                       | 6,300                |
| MW-6                              | 6/18/2004   | 23,000         | 19,000         | 1,000                    | 8,800                |
| MW-6                              | 6/27/2005   | 28,000         | 20,000         | 1,200                    | 9,600                |
| MW-6                              | 4/25/2006   | 26,000         | 25,000         | 1,700                    | 8,900                |
| MW-6                              | 11/27/2006  | 22,000         | 23,000         | 990                      | 9,700                |
| MW-6                              | 3/28/2007   | 25,000         | 27,000         | 1,900                    | 19,000               |
| MW-6                              | 6/13/2007   | 21,000         | 19,000         | 780                      | 7,900                |
| MW-6                              | 9/25/2007   | 27,000         | 21,000         | 1,200                    | 11,000               |
| MW-6                              | 3/12/2008   | 21,000         | 21,000         | 1,200                    | 11,000               |
| MW-6                              | 6/2/2008    | 19,000         | 16,000         | 870                      | 9,000                |
| MW-6                              | 9/22/2008   | 15,000         | 14,000         | 770                      | 8,500                |
| MW-6                              | 12/5/2008   | 28,000         | 27,000         | 1,100                    | 12,000               |
| MW-6                              | 3/3/2009    | 19,000         | 20,000         | 880                      | 9,300                |
| MW-6                              | 6/24/2009   | 23,000         | 18,000         | 900                      | 9,200                |
| MW-6                              | 9/15/2009   | 18,000         | 14,000         | 740                      | 7,700                |
| MW-6                              | 12/7/2009   | 19,000         | 19,000         | 1,000                    | 10,000               |
| MW-6                              | 3/3/2010    | 15,000         | 16,000         | 860                      | 9,300                |
| MW-6                              | 6/21/2010   | 18,000         | 15,000         | 680                      | 7,000                |
| MW-6                              | 9/9/2010    | 21,000         | 16,000         | 880                      | 8,300                |
| MW-6                              | 1/13/2011   | 19,000         | 18,000         | 1,000                    | 10,000               |
| MW-6                              | 6/15/2011   | 21,000         | 17,000         | 730                      | 7,500                |
| MW-6                              | 12/15/2011  | 25,000         | 22,000         | 960                      | 9,700                |
| MW-6                              | 12/4/2012   | 24,000         | 20,000         | 950                      | 9,400                |
| MW-6                              | 12/17/2013  | 21,000         | 20,000         | 920                      | 10,000               |
| MW-6                              | 12/10/2014  | 18,000         | 19,000         | 1,100                    | 12,000               |
| MW-6                              | 12/14/2015  | 20,000         | 18,200         | 969                      | 9,650                |
| MW-6                              | 12/13/2016  | 21,300         | 21,000         | 1,110                    | 11,700               |
| MW-6                              | 12/5/2017   | 15,900         | 15,900         | 898                      | 9,370                |
| MW-6                              | 12/11/2018  | 16,000         | 14,000         | 340                      | 3,800                |
| MW-6                              | 6/18/2019   | 14,000         | 13,000         | 430                      | 4,700                |
| MW-6                              | 12/16/2020  | 21,000         | 18,000         | 1,300                    | 13,000               |
| MW-6                              | 12/16/2021  | 19,000         | 18,000         | 2,100                    | 23,000               |
| MW-6                              | 12/30/2022  | 19,000         | 21,000         | 980                      | 11,000               |
| MW-6                              | 6/28/2023   | 18,000         | 8,600          | 990                      | 11,000               |
| MW-6                              | 12/29/2023  |                |                | Not sampled, PSH present |                      |



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

| Groundwater Sample Identification | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------------------|-------------|----------------|----------------|----------------------|----------------------|
| NMWQCC Groundwater Standard       |             | 5              | 1,000          | 700                  | 620                  |
| MW-7                              | 8/25/2003   | 18,000         | 11,000         | 930                  | 8,200                |
| MW-7                              | 6/18/2004   | 11,000         | 7,800          | 670                  | 5,000                |
| MW-7                              | 6/27/2005   | 14,000         | 8,700          | 880                  | 5,000                |
| MW-7                              | 4/25/2006   | 19,000         | 6,600          | 1,200                | 5,100                |
| MW-7                              | 11/27/2006  | 6,100          | 4,400          | 420                  | 2,500                |
| MW-7                              | 3/28/2007   | 11,000         | 9,500          | 100                  | 7,500                |
| MW-7                              | 6/13/2007   | 3,800          | 2,000          | 320                  | 1,700                |
| MW-7                              | 9/25/2007   | 2,900          | 2,400          | 210                  | 1,400                |
| MW-7                              | 3/12/2008   | 14,000         | 9,200          | 830                  | 4,800                |
| MW-7                              | 6/2/2008    | 8,800          | 5,300          | 560                  | 3,100                |
| MW-7                              | 9/22/2008   | 7,100          | 4,600          | 450                  | 2,800                |
| MW-7                              | 12/5/2008   | 11,000         | 9,300          | 680                  | 5,200                |
| MW-7                              | 3/3/2009    | 11,000         | 7,800          | 660                  | 4,500                |
| MW-7                              | 6/24/2009   | 21,000         | 14,000         | 640                  | 6,400                |
| MW-7                              | 9/15/2009   | 15,000         | 4,900          | 640                  | 3,600                |
| MW-7                              | 12/7/2009   | 9,600          | 7,700          | 530                  | 4,200                |
| MW-7                              | 3/3/2010    | 10,000         | 7,000          | 560                  | 4,000                |
| MW-7                              | 6/21/2010   | 4,100          | 2,900          | 280                  | 1,500                |
| MW-7                              | 9/9/2010    | 3,000          | 2,300          | 280                  | 1,400                |
| MW-7                              | 1/13/2011   | 8,500          | 5,600          | 500                  | 2,500                |
| MW-7                              | 6/15/2011   | 16,000         | 8,500          | 760                  | 4,700                |
| MW-7                              | 12/15/2011  | 8,900          | 4,300          | 510                  | 2,700                |
| MW-7                              | 12/4/2012   | 16,000         | 8,900          | 810                  | 4,600                |
| MW-7                              | 12/17/2013  | 6,200          | 3,400          | 390                  | 1,900                |
| MW-7                              | 12/10/2014  | 7,200          | 4,800          | 500                  | 2,600                |
| MW-7                              | 12/14/2015  | 7,650          | 4,710          | 382                  | 1,930                |
| MW-7                              | 12/13/2016  | 7,520          | 3,700          | 399                  | 1,240                |
| MW-7                              | 12/5/2017   | 5,550          | 1,840          | 346                  | 1,360                |
| MW-7                              | 12/11/2018  | 7,500          | 1,900          | 290                  | 1,200                |
| MW-7                              | 6/18/2019   | 4,200          | 890            | 160                  | 460                  |
| MW-7                              | 12/16/2020  | 11,000         | 11,000         | 760                  | 5,500                |
| MW-7                              | 12/16/2021  | NS             | NS             | NS                   | NS                   |
| MW-7                              | 12/30/2022  | NS             | NS             | NS                   | NS                   |
| MW-7                              | 6/28/2023   | NS             | NS             | NS                   | NS                   |
| MW-7                              | 12/29/2023  | NS             | NS             | NS                   | NS                   |



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

| Groundwater Sample Identification | Sample Date | Benzene (µg/L)             | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------------------|-------------|----------------------------|----------------|----------------------|----------------------|
| NMWQCC Groundwater Standard       |             | 5                          | 1,000          | 700                  | 620                  |
| MW-8                              | 6/13/2007   | 24,000                     | 24,000         | 350                  | 10,000               |
| MW-8                              | 9/25/2007   | 18,000                     | 4,000          | 960                  | 9,100                |
| MW-8                              | 3/12/2008   | 730                        | 64             | ND                   | 2,000                |
| MW-8                              | 6/2/2008    | 12,000                     | 7,100          | 490                  | 5,300                |
| MW-8                              | 9/22/2008   | 15,000                     | 13,000         | 520                  | 7,200                |
| MW-8                              | 12/5/2008   | 18,000                     | 15,000         | 810                  | 7,700                |
| MW-8                              | 3/3/2009    | 16,000                     | 12,000         | 660                  | 5,700                |
| MW-8                              | 6/24/2009   | 21,000                     | 13,000         | 690                  | 5,700                |
| MW-8                              | 9/15/2009   | 15,000                     | 7,800          | 590                  | 4,900                |
| MW-8                              | 12/7/2009   | 10,000                     | 1,300          | 570                  | 2,500                |
| MW-8                              | 3/3/2010    | 14,000                     | 7,800          | 610                  | 3,900                |
| MW-8                              | 6/21/2010   | 17,000                     | 15,000         | 630                  | 6,600                |
| MW-8                              | 9/9/2010    | 17,000                     | 7,800          | 760                  | 4,600                |
| MW-8                              | 1/13/2011   | 18,000                     | 10,000         | 730                  | 4,700                |
| MW-8                              | 6/15/2011   | 12,000                     | 5,300          | 460                  | 2,300                |
| MW-8                              | 12/15/2011  | 16,000                     | 10,000         | 810                  | 6,000                |
| MW-8                              | 12/4/2012   | 13,000                     | 6,300          | 630                  | 3,300                |
| MW-8                              | 12/17/2013  | 18,000                     | 18,000         | 720                  | 7,400                |
| MW-8                              | 12/10/2014  | 18,000                     | 15,000         | 870                  | 7,100                |
| MW-8                              | 12/14/2015  | 18,300                     | 18,900         | 727                  | 7,600                |
| MW-8                              | 12/13/2016  | 15,300                     | 12,700         | 448                  | 3,970                |
| MW-8                              | 12/5/2017   | 12,100                     | 11,600         | 767                  | 6,160                |
| MW-8                              | 12/11/2018  | 12,000                     | 14,000         | 510                  | 6,300                |
| MW-8                              | 6/18/2019   | 420                        | 780            | 33                   | 280                  |
| MW-8                              | 12/16/2020  | 2,300                      | 5,100          | 240                  | 3,500                |
| MW-8                              | 12/16/2021  | NS                         | NS             | NS                   | NS                   |
| MW-8                              | 12/30/2022  | 6,900                      | 12,000         | 680                  | 9,900                |
| MW-8                              | 6/28/2023   | 7,100                      | 12,000         | 50                   | 11,000               |
| MW-8                              | 12/29/2023  | Not sampled, sheen present |                |                      |                      |



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

| Groundwater Sample Identification | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------------------|-------------|----------------|----------------|----------------------|----------------------|
| NMWQCC Groundwater Standard       |             | 5              | 1,000          | 700                  | 620                  |
| MW-9                              | 3/10/2011   | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-9                              | 6/15/2011   | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-9                              | 12/16/2013  | <b>5.8</b>     | <5.0           | <0.5                 | <1.5                 |
| MW-9                              | 12/10/2014  | <0.5           | <5.0           | <0.5                 | <1.5                 |
| MW-9                              | 12/14/2015  | <b>285</b>     | <5.0           | <0.5                 | <1.5                 |
| MW-9                              | 2/19/2016   | 3.48           | <5.0           | <0.5                 | <1.5                 |
| MW-9                              | 12/13/2016  | <b>72.7</b>    | <1.0           | <0.5                 | <1.5                 |
| MW-9                              | 6/28/2017   | 2.80           | <1.00          | <0.500               | <1.50                |
| MW-9                              | 12/5/2017   | <b>75.0</b>    | 1.48           | <0.500               | <1.50                |
| MW-9                              | 6/27/2018   | <b>150</b>     | <1.0           | <1.0                 | <1.5                 |
| MW-9                              | 12/11/2018  | <b>110</b>     | <1.0           | <1.0                 | <2.0                 |
| MW-9                              | 6/18/2019   | 1.1            | <1.0           | <1.0                 | <1.5                 |
| MW-9                              | 12/16/2020  | <1.0           | <1.0           | <1.0                 | <2.0                 |
| MW-9                              | 12/16/2021  | <5.0           | <5.0           | <5.0                 | <10                  |
| MW-9                              | 12/30/2022  | 2.9            | <2.0           | <2.0                 | <4.0                 |
| MW-9                              | 6/28/2023   | <2.0           | <2.0           | <2.0                 | <4.0                 |
| MW-9                              | 12/29/2023  | <b>180</b>     | <2.0           | <2.0                 | <4.0                 |

**Notes:**

µg/L: micrograms per liter

ND: not detected above laboratory reporting limit

NMWQCC: New Mexico Water Quality Control Commission

NS: not sampled

PSH: phase separated hydrocarbons

&lt;: indicates result is less than the stated laboratory reporting limit

 Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code



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## APPENDIX A

### Laboratory Analytical Reports

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

July 10, 2023

Kate Kaufman  
HILCORP ENERGY  
PO Box 4700  
Farmington, NM 87499  
TEL: (505) 564-0733  
FAX:

RE: Bruington GC 1

OrderNo.: 2306F18

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/29/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2306F18**Date Reported: **7/10/2023****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-1**Project:** Bruington GC 1**Collection Date:** 6/28/2023 11:00:00 AM**Lab ID:** 2306F18-001**Matrix:** AQUEOUS**Received Date:** 6/29/2023 7:00:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst: JJP</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                     |
| Benzene                            | 2.3           | 1.0       |             | µg/L         | 1         | 7/3/2023 4:11:10 PM  |                     |
| Toluene                            | ND            | 1.0       |             | µg/L         | 1         | 7/3/2023 4:11:10 PM  |                     |
| Ethylbenzene                       | ND            | 1.0       |             | µg/L         | 1         | 7/3/2023 4:11:10 PM  |                     |
| Xylenes, Total                     | ND            | 2.0       |             | µg/L         | 1         | 7/3/2023 4:11:10 PM  |                     |
| Surr: 4-Bromofluorobenzene         | 98.8          | 52.4-148  |             | %Rec         | 1         | 7/3/2023 4:11:10 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

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**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2306F18**Date Reported: **7/10/2023****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-2**Project:** Bruington GC 1**Collection Date:** 6/28/2023 11:25:00 AM**Lab ID:** 2306F18-002**Matrix:** AQUEOUS**Received Date:** 6/29/2023 7:00:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst: JJP</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                     |
| Benzene                            | 11000         | 200       |             | µg/L         | 200       | 7/3/2023 4:34:52 PM  |                     |
| Toluene                            | 5600          | 200       |             | µg/L         | 200       | 7/3/2023 4:34:52 PM  |                     |
| Ethylbenzene                       | 2100          | 200       |             | µg/L         | 200       | 7/3/2023 4:34:52 PM  |                     |
| Xylenes, Total                     | 18000         | 400       |             | µg/L         | 200       | 7/3/2023 4:34:52 PM  |                     |
| Surr: 4-Bromofluorobenzene         | 100           | 52.4-148  |             | %Rec         | 200       | 7/3/2023 4:34:52 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

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**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2306F18**Date Reported: **7/10/2023****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-4**Project:** Bruington GC 1**Collection Date:** 6/28/2023 11:55:00 AM**Lab ID:** 2306F18-003**Matrix:** AQUEOUS**Received Date:** 6/29/2023 7:00:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst: JJP</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                     |
| Benzene                            | ND            | 1.0       |             | µg/L         | 1         | 7/3/2023 4:58:38 PM  |                     |
| Toluene                            | ND            | 1.0       |             | µg/L         | 1         | 7/3/2023 4:58:38 PM  |                     |
| Ethylbenzene                       | ND            | 1.0       |             | µg/L         | 1         | 7/3/2023 4:58:38 PM  |                     |
| Xylenes, Total                     | ND            | 2.0       |             | µg/L         | 1         | 7/3/2023 4:58:38 PM  |                     |
| Surr: 4-Bromofluorobenzene         | 94.6          | 52.4-148  |             | %Rec         | 1         | 7/3/2023 4:58:38 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

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**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2306F18**Date Reported: **7/10/2023****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-5**Project:** Bruington GC 1**Collection Date:** 6/28/2023 12:20:00 PM**Lab ID:** 2306F18-004**Matrix:** AQUEOUS**Received Date:** 6/29/2023 7:00:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst: JJP</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                     |
| Benzene                            | 16000         | 500       | P           | µg/L         | 500       | 7/3/2023 5:22:22 PM  |                     |
| Toluene                            | 210           | 50        | P           | µg/L         | 50        | 7/3/2023 5:46:02 PM  |                     |
| Ethylbenzene                       | 900           | 50        | P           | µg/L         | 50        | 7/3/2023 5:46:02 PM  |                     |
| Xylenes, Total                     | 4000          | 100       | P           | µg/L         | 50        | 7/3/2023 5:46:02 PM  |                     |
| Surr: 4-Bromofluorobenzene         | 116           | 52.4-148  | P           | %Rec         | 50        | 7/3/2023 5:46:02 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

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**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2306F18**Date Reported: **7/10/2023****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-6**Project:** Bruington GC 1**Collection Date:** 6/28/2023 12:40:00 PM**Lab ID:** 2306F18-005**Matrix:** AQUEOUS**Received Date:** 6/29/2023 7:00:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst: JJP</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                     |
| Benzene                            | 18000         | 2000      |             | µg/L         | 2000      | 7/3/2023 6:57:01 PM  |                     |
| Toluene                            | 8600          | 200       |             | µg/L         | 200       | 7/3/2023 7:20:35 PM  |                     |
| Ethylbenzene                       | 990           | 200       |             | µg/L         | 200       | 7/3/2023 7:20:35 PM  |                     |
| Xylenes, Total                     | 11000         | 400       |             | µg/L         | 200       | 7/3/2023 7:20:35 PM  |                     |
| Surr: 4-Bromofluorobenzene         | 95.0          | 52.4-148  |             | %Rec         | 200       | 7/3/2023 7:20:35 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

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**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2306F18**Date Reported: **7/10/2023****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-8**Project:** Bruington GC 1**Collection Date:** 6/28/2023 1:10:00 PM**Lab ID:** 2306F18-006**Matrix:** AQUEOUS**Received Date:** 6/29/2023 7:00:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst: JJP</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                     |
| Benzene                            | 7100          | 500       |             | µg/L         | 500       | 7/3/2023 8:07:57 PM  |                     |
| Toluene                            | 12000         | 500       |             | µg/L         | 500       | 7/3/2023 8:07:57 PM  |                     |
| Ethylbenzene                       | 610           | 50        |             | µg/L         | 50        | 7/3/2023 8:31:32 PM  |                     |
| Xylenes, Total                     | 11000         | 1000      |             | µg/L         | 500       | 7/3/2023 8:07:57 PM  |                     |
| Surr: 4-Bromofluorobenzene         | 99.9          | 52.4-148  |             | %Rec         | 50        | 7/3/2023 8:31:32 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

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**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2306F18**Date Reported: **7/10/2023****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-9**Project:** Bruington GC 1**Collection Date:** 6/28/2023 1:50:00 PM**Lab ID:** 2306F18-007**Matrix:** AQUEOUS**Received Date:** 6/29/2023 7:00:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst: JJP</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|---------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                     |
| Benzene                            | ND            | 2.0       | D           | µg/L         | 2         | 7/3/2023 9:18:33 PM  |                     |
| Toluene                            | ND            | 2.0       | D           | µg/L         | 2         | 7/3/2023 9:18:33 PM  |                     |
| Ethylbenzene                       | ND            | 2.0       | D           | µg/L         | 2         | 7/3/2023 9:18:33 PM  |                     |
| Xylenes, Total                     | ND            | 4.0       | D           | µg/L         | 2         | 7/3/2023 9:18:33 PM  |                     |
| Surr: 4-Bromofluorobenzene         | 91.8          | 52.4-148  | D           | %Rec         | 2         | 7/3/2023 9:18:33 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

Page 7 of 8

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2306F18

10-Jul-23

**Client:** HILCORP ENERGY**Project:** Bruington GC 1

| Sample ID: <b>100ng btex lcs</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>           | Batch ID: <b>R97946</b>        | RunNo: <b>97946</b>                          |           |             |      |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>7/3/2023</b> | SeqNo: <b>3563639</b> Units: <b>µg/L</b>     |           |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 16                             | 1.0  | 20.00     | 0           | 79.8 | 70       | 130       |      |          |      |
| Toluene                          | 16                             | 1.0  | 20.00     | 0           | 81.7 | 70       | 130       |      |          |      |
| Ethylbenzene                     | 17                             | 1.0  | 20.00     | 0           | 82.8 | 70       | 130       |      |          |      |
| Xylenes, Total                   | 50                             | 2.0  | 60.00     | 0           | 83.5 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 19                             |  | 20.00     |             | 94.2 | 52.4     | 148       |      |          |      |

| Sample ID: <b>mb</b>       | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R97946</b>        | RunNo: <b>97946</b>                          |           |             |      |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>7/3/2023</b> | SeqNo: <b>3563640</b> Units: <b>µg/L</b>     |           |             |      |          |           |      |          |      |
| 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  |           |             |      |          |           |      |          |      |
| Xylenes, Total             | ND                             | 2.0  |           |             |      |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 18                             |  | 20.00     |             | 91.5 | 52.4     | 148       |      |          |      |

| Sample ID: <b>2306f18-001ams</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>MW-1</b>           | Batch ID: <b>R97946</b>        | RunNo: <b>97946</b>                          |           |             |      |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>7/3/2023</b> | SeqNo: <b>3563642</b> Units: <b>µg/L</b>     |           |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 16                             | 1.0  | 20.00     | 2.306       | 69.2 | 70       | 130       |      |          | S    |
| Toluene                          | 16                             | 1.0  | 20.00     | 0           | 80.2 | 70       | 130       |      |          |      |
| Ethylbenzene                     | 16                             | 1.0  | 20.00     | 0.4380      | 78.2 | 70       | 130       |      |          |      |
| Xylenes, Total                   | 49                             | 2.0  | 60.00     | 1.740       | 78.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 19                             |  | 20.00     |             | 95.0 | 52.4     | 148       |      |          |      |

| Sample ID: <b>2306f18-001amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |       |          |      |
|-----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>MW-1</b>            | Batch ID: <b>R97946</b>        | RunNo: <b>97946</b>                          |           |             |      |          |           |       |          |      |
| Prep Date:                        | Analysis Date: <b>7/3/2023</b> | SeqNo: <b>3563643</b> Units: <b>µg/L</b>     |           |             |      |          |           |       |          |      |
| Analyte                           | Result                         | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                           | 16                             | 1.0  | 20.00     | 2.306       | 69.0 | 70       | 130       | 0.211 | 20       | S    |
| Toluene                           | 16                             | 1.0  | 20.00     | 0           | 78.8 | 70       | 130       | 1.75  | 20       |      |
| Ethylbenzene                      | 16                             | 1.0  | 20.00     | 0.4380      | 78.1 | 70       | 130       | 0.149 | 20       |      |
| Xylenes, Total                    | 48                             | 2.0  | 60.00     | 1.740       | 77.9 | 70       | 130       | 0.391 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 19                             |  | 20.00     |             | 94.7 | 52.4     | 148       | 0     | 0        |      |

**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 Quantitative 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



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

## Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2306F18

RcptNo: 1

Received By: Tracy Casarrubias 6/29/2023 7:00:00 AM

Completed By: Tracy Casarrubias 6/29/2023 10:12:47 AM

Reviewed By: *JL* 6-29-23**Chain of Custody**

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

**Log In**

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

# of preserved bottles checked for pH:  
(<2 or >12 unless noted)

Adjusted?

Checked by: *TMC* 6/29/23**Special Handling (if applicable)**

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

Person Notified:

Date:

By Whom:

Via:  eMail  Phone  Fax  In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.2     | Good      | Yes         | Yogi    |           |           |





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](http://www.hallenvironmental.com)

January 08, 2024

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

RE: Bruington GC 1

OrderNo.: 2312F55

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 12/30/2023 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](http://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 Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2312F55**Date Reported: **1/8/2024****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-1**Project:** Bruington GC 1**Collection Date:** 12/29/2023 12:50:00 PM**Lab ID:** 2312F55-001**Matrix:** AQUEOUS**Received Date:** 12/30/2023 8:30:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst:</b> <b>RAA</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|----------------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                            |
| Benzene                            | ND            | 1.0       | µg/L        | 1            | 1         | 1/2/2024 2:42:00 PM  |                            |
| Toluene                            | ND            | 1.0       | µg/L        | 1            | 1         | 1/2/2024 2:42:00 PM  |                            |
| Ethylbenzene                       | ND            | 1.0       | µg/L        | 1            | 1         | 1/2/2024 2:42:00 PM  |                            |
| Xylenes, Total                     | ND            | 2.0       | µg/L        | 1            | 1         | 1/2/2024 2:42:00 PM  |                            |
| Surr: 4-Bromofluorobenzene         | 104           | 52.4-148  | %Rec        | 1            | 1         | 1/2/2024 2:42:00 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  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative 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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2312F55**Date Reported: **1/8/2024****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-4**Project:** Bruington GC 1**Collection Date:** 12/29/2023 12:30:00 PM**Lab ID:** 2312F55-002**Matrix:** AQUEOUS**Received Date:** 12/30/2023 8:30:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst:</b> <b>RAA</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|----------------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                            |
| Benzene                            | ND            | 1.0       | µg/L        | 1            | 1         | 1/2/2024 3:48:00 PM  |                            |
| Toluene                            | ND            | 1.0       | µg/L        | 1            | 1         | 1/2/2024 3:48:00 PM  |                            |
| Ethylbenzene                       | ND            | 1.0       | µg/L        | 1            | 1         | 1/2/2024 3:48:00 PM  |                            |
| Xylenes, Total                     | ND            | 2.0       | µg/L        | 1            | 1         | 1/2/2024 3:48:00 PM  |                            |
| Surr: 4-Bromofluorobenzene         | 105           | 52.4-148  | %Rec        | 1            | 1         | 1/2/2024 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.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative 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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2312F55**Date Reported: **1/8/2024****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-5**Project:** Bruington GC 1**Collection Date:** 12/29/2023 1:50:00 PM**Lab ID:** 2312F55-003**Matrix:** AQUEOUS**Received Date:** 12/30/2023 8:30:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |
| Benzene                            | 27000         | 500       |             | µg/L         | 500       | 1/2/2024 4:11:00 PM  |
| Toluene                            | 440           | 50        |             | µg/L         | 50        | 1/2/2024 4:33:00 PM  |
| Ethylbenzene                       | 970           | 50        |             | µg/L         | 50        | 1/2/2024 4:33:00 PM  |
| Xylenes, Total                     | 3400          | 100       |             | µg/L         | 50        | 1/2/2024 4:33:00 PM  |
| Surr: 4-Bromofluorobenzene         | 129           | 52.4-148  |             | %Rec         | 50        | 1/2/2024 4:33:00 PM  |

Analyst: **RAA**

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **2312F55**Date Reported: **1/8/2024****CLIENT:** HILCORP ENERGY**Client Sample ID:** MW-9**Project:** Bruington GC 1**Collection Date:** 12/29/2023 3:00:00 PM**Lab ID:** 2312F55-004**Matrix:** AQUEOUS**Received Date:** 12/30/2023 8:30:00 AM

| <b>Analyses</b>                    | <b>Result</b> | <b>RL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> | <b>Analyst:</b> <b>RAA</b> |
|------------------------------------|---------------|-----------|-------------|--------------|-----------|----------------------|----------------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |               |           |             |              |           |                      |                            |
| Benzene                            | 180           | 2.0       |             | µg/L         | 2         | 1/2/2024 4:55:00 PM  |                            |
| Toluene                            | ND            | 2.0       |             | µg/L         | 2         | 1/2/2024 4:55:00 PM  |                            |
| Ethylbenzene                       | ND            | 2.0       |             | µg/L         | 2         | 1/2/2024 4:55:00 PM  |                            |
| Xylenes, Total                     | ND            | 4.0       |             | µg/L         | 2         | 1/2/2024 4:55:00 PM  |                            |
| Surr: 4-Bromofluorobenzene         | 103           | 52.4-148  |             | %Rec         | 2         | 1/2/2024 4:55:00 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  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative 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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312F55

08-Jan-24

**Client:** HILCORP ENERGY**Project:** Bruington GC 1

| Sample ID: <b>100ng btex lcs</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSW</b>           | Batch ID: <b>R102211</b>       | RunNo: <b>102211</b>                         |           |             |      |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>1/2/2024</b> | SeqNo: <b>3773300</b> Units: <b>µg/L</b>     |           |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 19                             | 1.0  | 20.00     | 0           | 96.6 | 70       | 130       |      |          |      |
| Toluene                          | 20                             | 1.0  | 20.00     | 0           | 98.2 | 70       | 130       |      |          |      |
| Ethylbenzene                     | 20                             | 1.0  | 20.00     | 0           | 101  | 70       | 130       |      |          |      |
| Xylenes, Total                   | 61                             | 2.0  | 60.00     | 0           | 102  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 21                             |  | 20.00     |             | 107  | 52.4     | 148       |      |          |      |

| Sample ID: <b>mb</b>       | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>R102211</b>       | RunNo: <b>102211</b>                         |           |             |      |          |           |      |          |      |
| Prep Date:                 | Analysis Date: <b>1/2/2024</b> | SeqNo: <b>3773301</b> Units: <b>µg/L</b>     |           |             |      |          |           |      |          |      |
| 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  |           |             |      |          |           |      |          |      |
| Xylenes, Total             | ND                             | 2.0  |           |             |      |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 21                             |  | 20.00     |             | 105  | 52.4     | 148       |      |          |      |

| Sample ID: <b>2312f55-001ams</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>MW-1</b>           | Batch ID: <b>R102211</b>       | RunNo: <b>102211</b>                         |           |             |      |          |           |      |          |      |
| Prep Date:                       | Analysis Date: <b>1/2/2024</b> | SeqNo: <b>3773303</b> Units: <b>µg/L</b>     |           |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 19                             | 1.0  | 20.00     | 0           | 92.5 | 70       | 130       |      |          |      |
| Toluene                          | 19                             | 1.0  | 20.00     | 0           | 94.4 | 70       | 130       |      |          |      |
| Ethylbenzene                     | 19                             | 1.0  | 20.00     | 0           | 97.4 | 70       | 130       |      |          |      |
| Xylenes, Total                   | 59                             | 2.0  | 60.00     | 0           | 98.3 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 21                             |  | 20.00     |             | 107  | 52.4     | 148       |      |          |      |

| Sample ID: <b>2312f55-001amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |       |          |      |
|-----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>MW-1</b>            | Batch ID: <b>R102211</b>       | RunNo: <b>102211</b>                         |           |             |      |          |           |       |          |      |
| Prep Date:                        | Analysis Date: <b>1/2/2024</b> | SeqNo: <b>3773304</b> Units: <b>µg/L</b>     |           |             |      |          |           |       |          |      |
| Analyte                           | Result                         | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                           | 18                             | 1.0  | 20.00     | 0           | 91.9 | 70       | 130       | 0.682 | 20       |      |
| Toluene                           | 19                             | 1.0  | 20.00     | 0           | 93.4 | 70       | 130       | 1.02  | 20       |      |
| Ethylbenzene                      | 19                             | 1.0  | 20.00     | 0           | 96.1 | 70       | 130       | 1.34  | 20       |      |
| Xylenes, Total                    | 58                             | 2.0  | 60.00     | 0           | 97.1 | 70       | 130       | 1.23  | 20       |      |
| Surr: 4-Bromofluorobenzene        | 22                             |  | 20.00     |             | 109  | 52.4     | 148       | 0     | 0        |      |

**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 Quantitative 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



Environment Testin

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

**Sample Log-In Check List**

Client Name: HILCORP ENERGY Work Order Number: 2312F55 RcptNo: 1

Received By: Tracy Casarrubias 12/30/2023 8:30:00 AM

Completed By: Tracy Casarrubias 12/30/2023 9:06:37 AM

Reviewed By: *JL 12-24*

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

# of preserved bottles checked for pH:  
<2 or >12 unless noted  
Adjusted?  
Checked by: *JL 12/24*

**Special Handling (if applicable)**

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

|                      |  |
|----------------------|--|
| Person Notified:     | Date:  |
| By Whom:             | Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           |  |
| Client Instructions: |  |

16. Additional remarks:

**17. Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.3     | Good      | Yes         | Yogi    |           |           |

**Chain-of-Custody Record**

|  |             |                                       |                                   | Turn-Around Time:   | <input checked="" type="checkbox"/> Standard | <input type="checkbox"/> Rush   |
|--|-------------|---------------------------------------|-----------------------------------|---|--|---|
|  |             |                                       |                                   | Project Name:   | Bruington GC #1                              |   |
| Mailing Address: 382 Road 3100 Aztec, NM 87410   |             |                                       |                                   | Project #:  | 4901 Hawkins NE - Albuquerque, NM 87109      |   |
| Billing Address: PO Box 61529 Houston, TX 77208  |             |                                       |                                   |   | Tel. 505-345-3975 Fax 505-345-4107           |   |
| Phone #: 505-486-9543  |             |                                       |                                   | Project Manager:  | Analysis Request                             |   |
| email or Fax#: Brandon.Sinclair@hilcorp.com  |             |                                       |                                   |   |  |   |
| QA/QC Package:<br><input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)   |             |                                       |                                   | Mitch Killough  |  |   |
| Accreditation:<br><input type="checkbox"/> AZ Compliance<br><input type="checkbox"/> NELAC <input type="checkbox"/> Other<br><input type="checkbox"/> EDD (Type) |             |                                       |                                   | Sampler: Brandon Sinclair   |  |   |
|  |             |                                       |                                   | On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Urgent                                       |   |
| # of Coolers: 1  |             |                                       |                                   | Cooler Temp (including dry): 7.3 ± 0 = 2.3 °C                               |  |   |
| Date   | Time        | Matrix                                | Sample Name                       | Container Type and #  | Preservative Type                            | HEAL No.  |
| 12-29  | 12:50       | Water                                 | MW-1                              | (3) 40ml VOA Vial   | HCL  | 001   |
|  |             | Water                                 | MW-2                              | (3) 40ml VOA Vial   | HCL  | X   |
|  |             | Water                                 | MW-3                              | (3) 40ml VOA Vial   | HCL  | X   |
|  |             | Water                                 | MW-4                              | (3) 40ml VOA Vial   | HCL  | 002   |
|  |             | Water                                 | MW-5                              | (3) 40ml VOA Vial   | HCl HgCl                                     | 003   |
|  |             | Water                                 | MW-6                              | (3) 40ml VOA Vial   | HCL  | X   |
|  |             | Water                                 | MW-7                              | (3) 40ml VOA Vial   | HCL  | X   |
|  |             | Water                                 | MW-8                              | (3) 40ml VOA Vial   | HCL  | X   |
|  |             | Water                                 | MW-9                              | (3) 40ml VOA Vial   | HgCl   | 004   |
| 12-29  | 13:00       | Water                                 |                                   |   |  |   |
| 12-29  | 14:39       | Water                                 |                                   |   |  |   |
| 12-29  | 17:24       | Water                                 |                                   |   |  |   |
| Date: 12-29  | Time: 14:39 | Relinquished by: <i>John Sinclair</i> | Received by: <i>John Sinclair</i> | Date: 12/29/23  | Time: 16:39                                  | Remarks: Special Pricing See Andy Freeman   |
| Date: 12-29  | Time: 17:24 | Relinquished by: <i>John Sinclair</i> | Received by: <i>John Sinclair</i> | Date: 12/30/23  | Time: 08:30                                  | If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report. |

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 326973

**CONDITIONS**

|  |  |
|--|--|
| Operator:<br><br>HILCORP ENERGY COMPANY<br>1111 Travis Street<br>Houston, TX 77002 | OGRID:<br><br>372171   |
|  | Action Number:<br><br>326973   |
|  | Action Type:<br><br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

**CONDITIONS**

| Created By       | Condition  | Condition Date |
|------------------|--|----------------|
| michael.buchanan | Review of the 2023 Annual Groundwater Monitoring Report for Bruington Gas Com#1: Content Satisfactory 1. Review of the 2021 Annual Groundwater Monitoring Report for Bruington Gas Com #1: Content Satisfactory 1. Implement more active groundwater remediation by installing activated ORC socks as planned (if they haven't been installed already) in monitoring wells: MW-2R, MW-5, MW-6, MW-7 and MW-8 and collect ORP and DO values for effectiveness. 2. Please upload SDS for the ORC socks being utilized. 3. Continue to collect groundwater elevations semi-annually. Increase groundwater monitoring events to a semi-annual basis for all wells as planned until COCs are reaching the human health limits in the WQCC standards. 4. Submit the 2024 Annual Report by April 1, 2025. | 5/30/2024      |