



REVIEWED
By Mike Buchanan at 3:31 pm, Aug 10, 2023

Review of the Site Status Report for 2021: **Content Satisfactory**
1. Recondition well HTRW-1 by Air Sparging technique.
2. Please continue to sample and monitor wells quarterly or semi-annually as appropriate.
3. Received the 2022 Annual Report.
Please submit the 2023 Annual Report by or before April 1, 2024.



Site Status Report for 2021

Hobbs Tank 5201 Release AP-113
Lea County, New Mexico

April 2022

HollyFrontier





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1. Introduction

This 2021 status report is submitted by GHD Services, Inc. (GHD), on behalf of HollyFrontier for the Hobbs Tank 5201 Release, AP-113, (Site), located in Lea County, New Mexico (**Figure 1**). The C-141 notification for the release was submitted to the New Mexico Oil Conservation District (NMOCD) on July 22, 2004. This report includes the status of groundwater monitoring and remediation at the Site for the period from March 2021 to December 2021.

1.1 Site Background

On July 22, 2004, a leak of an unknown volume of crude oil was discovered in a 6-inch pipeline from the crude oil truck unloading rack at the storage tank 5201 (**Figure 2**). The line was exposed and clamped, and the section was replaced, immediately. Petroleum-stained soil from the release was immediately excavated in an area that covered approximately 4 feet by 20 feet by 18 feet deep. Additional staining observed close to the tank was not excavated due to the proximity of the tank and fear of compromising the 1930-vintage tank's structural integrity. No fluid was observed during the excavation.

1.2 Site Setting

The Site is located approximately 3.5 miles south of Hobbs, New Mexico on County Road 61 in the NW ¼ of the NW ¼ of Section 22, Township 19 South, and Range 38 East in Lea County, New Mexico (32° 39.079' N, 103° 8.530' W). The topography at the Site is relatively flat and the average elevation is 3,595 feet mean sea level (**Figure 1**). The Site is located on property within the Holly Energy Partners tank farm, which is on property owned by Enterprise Products and is surrounded by fencing with access controlled by a locked gate. The surrounding area contains crude oil storage tanks, pipelines, and open rangeland.

1.3 Site Geology and Hydrogeology

The surface soils encountered at the Site are silty to fine sands approximately 10-feet thick. This surface soil is consistent with the surface soil description (Quaternary sediment) for this physiographic province. The soil types encountered below this surface layer at the Site are indurated (hardened) calcium carbonate intervals of variable thickness locally referred to as "caliche", fine-grained sand, sandstone with caliche and the saturated zone consisting of fractured sandstone.

Groundwater in the area of the Site is primarily produced from the Ogallala aquifer. The Ogallala Formation unconformably overlies the Triassic age Dockum group. The Dockum group consists of red shale and sandstone and is commonly referred to as "red beds". The red beds can exceed 1,000 feet in thickness in this region and may produce small amounts of poor-quality water at the bottom of the formation.

The regional groundwater flow direction in the Ogallala is toward the southeast and follows the Triassic subcrop surface. Groundwater quality is very good with total dissolved solids (TDS)



concentrations typically below 1,000 mg/L. Recharge primarily occurs via infiltration from precipitation events.

Groundwater at the Site is found in fractured sandstone consistent with the Ogallala aquifer. The depth to groundwater at the Site is approximately 50 feet-below ground surface (ft-bgs). The groundwater flow is towards the east-southeast and the groundwater gradient is approximately 0.001ft/ft.

1.4 Summary of Site Conditions

Safety and Environmental Solutions Inc. (SES) installed six groundwater monitoring wells, one recovery well and advanced seven boreholes shortly after the release to characterize the release and recover the released crude oil in the area of the tank. Five boreholes and two monitoring wells were installed inside of the berm area in 2004. The first borehole was completed as a 2-inch monitor well (MW-1), adjacent to the leak location. Two monitoring wells, MW-2 and MW-3, were installed outside the bermed area in 2004. A 4-inch recovery well (RW-1) was installed in the area near the tank and MW-1 in 2004. In 2010, two additional monitoring wells were installed, MW-4, outside the bermed area and MW-5, up-gradient and inside the bermed area (**Figure 2**).

SES monitored groundwater conditions and recovered crude oil from wells MW-1 and RW-1 from 2004 to 2011. In 2004, crude oil was initially measured in MW-1 at approximately 6 feet thick. In the recovery well, RW-1, the initial product thickness was measured at 2.75 feet. Crude oil was not found in any other areas of the Site. In 2005, outside the tank berm area and approximately 200 feet southeast from the release point, benzene was detected in the down-gradient area in monitor well MW-2 at a concentration of 72 µg/L, which is above the New Mexico Water Quality Control Commission (NMWQCC) standard of 5 µg/L. Benzene has not been detected above the standard in this well or in any other monitoring wells located down-gradient and outside the berm area since 2005.

In June 2013, four recovery wells were installed by GHD within the berm area and near the release area to delineate the crude oil and to recover crude oil (**Figure 2**). In September 2013, a crude oil only recovery system with remote access was installed with oil only skimmer pumps in well RW-1 and recovery wells, HTRW-1 and HTRW-3. This system was used until March 2015 when only negligible amounts of recoverable oil were remaining in the area. Since 2015, Enhanced Fluid Recovery (EFR) using a vacuum truck was used to recover crude oil from wells MW-1, RW-1, HTRW-1 and HTRW-3. Oil absorbent socks have been used in these wells when EFR was not used during the months between EFR uses and are currently in use in wells MW-1, RW-1, and HTRW-3.

Appendix A contains information on fluid levels and crude oil thickness since 2012. Wells MW-1 and RW-1 contained oil sporadically from 2012 to March 2019. HTRW-1 contained oil sporadically from 2013 to October 2016. Wells HTRW-2 and HTRW-4 have never showed any measurable oil. HTRW-3 had shown measurable oil from 2013 to 2020 and none has been measured in this well since June 2020 (**Appendix A**).

1.5 Site Conceptual Model

The Site is located in an area of multiple crude oil gathering lines and storage tanks and 2 miles west of Highway 18 and three miles south of Hobbs, New Mexico. The entire site is fenced, and



access is restricted for people and cattle. The closest residences are approximately 0.5 miles northeast of the Site (**Figure 1**). The closest drinking water well (L08890) is located approximately 900 feet to the southeast of the Site. This well was sampled for hydrocarbons following the discovery of the release and was not impacted by the release (Stage 1/Stage 2 Abatement Plan, November 2012, CRA). Another well (I08279) located approximately 1900 ft northeast from the site was sampled in March 2019 and showed no detections of any inorganic or hydrocarbon constituents above state standards.

Groundwater at the Site is found at approximately 50 ft-bgs and the groundwater flow direction is towards the southeast at an average gradient of approximately 0.001 feet/foot (ft/ft). One monitoring well (MW-5) is located up-gradient of the release area and four monitoring wells are located down-gradient of the release. The dissolved phase hydrocarbon concentrations in groundwater at these locations have been below the NMWQCC standards for benzene, toluene, ethylbenzene and total xylenes (BTEX) since 2005. The impacts to groundwater, from the release, appear to be limited to the immediate area of the leak located near the tank. Recovery well HTRW-1 has had detections of benzene. In December 2019, the benzene concentration (the only constituent above state NMWQCC standards) in this well was 57.5 µg/L, in December 2020 the benzene concentration was 626 µg/L and in December 2021 benzene was detected below the standard at 2.49 µg/L (**Table 1**).

The primary chemicals of concern are hydrocarbon constituents that have dissolved from the released crude oil. The NMWQCC standards for hydrocarbons in groundwater for this Site are:

- 5 micrograms per liter (µg/L) for benzene
- 1000 µg/L for toluene
- 700 µg/L for ethylbenzene
- 620 µg/L for total xylenes

The only detection of benzene above the standard outside the berm area was detected in well MW-2 at 72 µg/L in January 2005. Presently, the only well that has had a detection of benzene above the standard is located within the berm area in well HTRW-1. The polycyclic aromatic hydrocarbons (PAHs) analyses for all sampled wells showed no detections of any PAHs above the laboratory lower method reporting limit for five consecutive sampling events conducted from March 2018 to March 2019.

Groundwater samples were analyzed for TDS, chloride and RCRA metals, which included arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver for all sampled wells in 2014, 2016, 2017, 2019 and 2020 (**Table 2**). The analyses showed none of these constituents were above state standards in 2019 and 2020 (**Table 2**).

There appears to be no remaining threat to the environment or to drinking water wells located in the area caused by the release and any remaining impacts. Dissolved phase hydrocarbons have only been detected in the immediate area of the release. Other constituents (PAHs) and RCRA metals that may be associated with the released oil have not been detected consistently within the berm area near the release or outside the berm area and down-gradient of the release above state standards. Crude oil has not been measured in any wells since June 2020 and the only well that has shown detections of benzene above the standard is recovery well HTRW-1, which had contained oil until 2016.



2. Site Activities

Groundwater monitoring was conducted at the Site by GHD for 2021 in March, June, September, and December. The groundwater monitoring included measurement of fluid levels in all monitoring wells and the recovery wells, collection of groundwater samples for laboratory analysis for BTEX and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) and total petroleum hydrocarbons- diesel range organics (TPH-DRO). Remediation activities that have been performed in well HTRW-1 in 2021, have included Cool-Ox, EFR using a vacuum truck and air injection.

3. Groundwater Monitoring Procedures and Results

For this reporting period, fluid levels were measured in all monitoring wells and recovery wells at the Site in 2021. Groundwater samples were collected on a semiannual basis from the monitor wells MW-4, and MW-5, and from recovery well HTRW-1, quarterly. Groundwater samples were not collected from monitoring wells MW-2 and MW-3 in 2021, as both wells were dry all year or contained an insufficient amount of water for sample acquisition. **Appendix A** shows historical fluid levels from 2012 to December 2021. **Table 1** summarizes hydrocarbon analytical results for 2021. **Appendix B** summarizes historical analytical results from August 2004 to December 2021.

Prior to purging of the wells and obtaining groundwater samples, fluid levels were measured in the wells that have contained crude oil, using an oil/water level indicator. The monitor wells were purged prior to sample acquisition at a rate of 160 ml/min or less or with disposable bailers. Groundwater samples were collected following stabilization of the field parameters. The meters used for the field parameters were calibrated prior to use. Field parameters obtained prior to sampling included temperature, specific conductance, pH, dissolved oxygen, and oxidation-reduction potential (ORP) and are tabulated in **Appendix B**. The groundwater samples were analyzed for BTEX by Method 8260 and for TPH-GRO and TPH-DRO by Method 8015. Groundwater samples were immediately placed into the appropriate laboratory provided containers and placed in an ice-chilled cooler for transport to the DHL laboratory, Round Rock, TX under chain-of-custody procedures.

March 2021

In March 2021, crude oil was not measured in any of the other wells. The crude oil thicknesses for March 2021 are shown in **Figure 3** and detailed in **Appendix A**.

Water levels measured in March 2021 were generally 0.10 to 0.20 feet lower than water levels measured in December 2020. For the March 2021 monitoring period, the groundwater flow (**Figure 4**) was towards the southeast with a gradient of 0.001 ft/ft (0.001 ft/ft in March 2020).

The March 2021 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 8** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. The March 2021 laboratory report is contained **Appendix C**.

The analytical results for this monitoring period are summarized as follows:

- None of the BTEX constituents, were detected above NMWQCC standards in wells MW-4 and MW-5.



- Benzene was detected above the NMWQCC standard in well HTRW-1 at 849 µg/L.
- Ethylbenzene and xylenes were detected in well HTRW-1 below the NMWQCC standards.
- TPH-GRO was detected above the lower laboratory reporting limit (0.06 mg/L) in well HTRW-1 at 2.36 mg/L and was not detected above the limit in wells MW-4 and MW-5.
- TPH-DRO were detected above the lower laboratory reporting limit only in well MW-4 at 0.179 mg/L.

Concentrations of dissolved hydrocarbons in groundwater during the March 2021 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (**Figure 8**).

June 2021

In June 2021, crude oil was not measured in any of the wells. The crude oil thicknesses for June 2021 are shown in **Figure 3** and detailed in **Appendix A**.

Water levels measured in June 2021 were approximately 0.10 to 0.20 feet lower than water levels measured in March 2021. For the June 2021 monitoring period, the groundwater flow was towards the southeast with a gradient of 0.001 ft/ft (0.001 ft/ft in June 2020), as previously observed (**Figure 5**).

The June 2021 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 8** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4 and MW-5 were not sampled this quarter and will be sampled on semiannual basis. The June 2021 laboratory report is contained **Appendix C**.

The analytical results for this monitoring period are summarized as follows:

- Benzene was detected above the NMWQCC standard in well HTRW-1 at 765 µg/L.
- Toluene, ethyl-benzene and total xylenes were not detected above the NMWQCC standards in HTRW-1.
- TPH-GRO was detected above the lower laboratory reporting limit (0.06 mg/L) in well HTRW-1 at 1.70 mg/L.
- TPH-DRO was not detected above the lower laboratory reporting limit (0.147 mg/L) in well HTRW-1.

September 2021

In September 2021, crude oil was not measured in any of the wells. The crude oil thicknesses for September 2021 are shown in **Figure 3** and detailed in **Appendix A**.

Water levels measured in September 2021 were generally 0.10 feet lower than water levels measured in June 2021. For the September 2021 monitoring period the groundwater flow (**Figure 6**) was towards the southeast with a gradient of 0.001 ft/ft (0.001 ft/ft in September 2020).

The September 2021 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 8** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4 and MW-5 were not sampled this quarter and will be sampled on semiannual basis. The September 2021 laboratory report is contained **Appendix C**.



The analytical results for this monitoring period are summarized as follows:

- Benzene was detected below the NMWQCC standard in well HTRW-1 at 1.20 µg/L.
- Toluene, ethyl-benzene and total xylenes were not detected above the NMWQCC standards in HTRW-1.
- TPH-GRO was not detected above the lower laboratory reporting limit (0.06 mg/L) in well HTRW-1; and
- TPH-DRO was not detected above the lower laboratory reporting limit (0.551 mg/L) in well HTRW-1.

December 2021

In December 2021, crude oil was not measured in any of the wells. The crude oil thicknesses for December 2021 are shown in **Figure 3** and detailed in **Appendix A**.

Water levels measured in December 2021 were generally 0.20 feet lower than water levels measured in September 2021. For the December 2021 monitoring period the groundwater flow (**Figure 7**) was towards the southeast with a gradient of 0.001 ft/ft (0.001 ft/ft in December 2020).

The December 2021 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 8** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. The December 2021 laboratory report is contained **Appendix C**.

The analytical results for this monitoring period are summarized as follows:

- None of the BTEX constituents were detected above the NMWQCC standards in wells MW-4 and MW-5.
- Benzene was detected below the NMWQCC standard in well HTRW-1 at 2.49 µg/L.
- Toluene, ethyl-benzene and total xylenes were not detected above the NMWQCC standards in HTRW-1.
- TPH-GRO and TPH-DRO were not detected above the lower laboratory reporting limits in wells MW-4, MW-5 and HTRW-1.

Concentrations of dissolved hydrocarbons in groundwater during the December 2021 monitoring period were not detected in wells above the NMWQCC standards inside and outside the berm area (**Figure 8**).

4. QA/QC Results

Quality Assurance/Quality Control (QA/QC) measures were followed according to the abatement plan. A summary of the QA/QC analytical results is presented in **Table 2** for this reporting period. Prior to sampling, the YSI water quality meter was calibrated with the appropriate standards.

Duplicate groundwater samples were collected in March and December 2021. The duplicate samples were analyzed for BTEX, TPH-GRO, and TPH-DRO. There was little or no difference in the duplicate results.



Each cooler containing the groundwater samples was shipped to the laboratory with a temperature blank and a laboratory prepared trip blank. The trip blank samples were analyzed for BTEX and TPH-GRO. There were no detections above the lower laboratory reporting limits for BTEX and TPH-DRO in any of the trip blank samples that were submitted (**Table 2**). All samples were analyzed within the holding times and all coolers were received at the proper temperature. Based on this evaluation, all the data meets acceptance criteria and is suitable for use in this report.

5. Remediation Status

The crude oil from the release has historically been found in the central portion of the Site, in the immediate area of Tank 5201 and inside the tank berm. Crude oil has not been measured in any monitoring wells located outside of this area of the release. Crude oil was recovered from wells using a crude oil only skimmer pump system from September 2013 to December 2015. From December 2015 to January 2018, EFR was used to recover the oil and oil absorbent socks have been used for any *de minimus* remaining oil since 2018. The crude oil thickness in Site wells for March 2021 to December 2021 is shown in **Figure 3** and detailed in **Appendix A**.

Crude oil from the releases has not recharged at a recoverable rate since March 2018 and has been declining in wells near the release since September 2013 (**Appendix A**). The maximum crude oil thickness measured in well RW-1 was in December 2012 at 3.01 feet and presently does not have any measured oil. The maximum crude oil thickness was measured in well MW-1 at 3.62 feet in August 2012 and has not shown any measured PSH since March 2020 (**Figure 3**). The maximum crude oil thickness in HTRW-3 was measured at 1.70 in December 2015 and presently does not have any measured oil (**Figure 12**). Crude oil has never been measured in wells HTRW-2 and HTRW-4 since installation of the wells in 2013 and HTRW-1 has not shown any oil since 2016 (**Appendix A**).

The Site total accumulated thickness of the crude oil as measured in all wells for the Site has declined from 8.50 feet in 2013 to 1.72 feet in December 2015, to 0.03 feet in June 2016, to 0.53 feet in December 2016, to 0.04 feet in June 2017 to 0.05 feet in December 2018 to 0.18 feet in December 2019. Presently, the Site total accumulated thickness of the crude oil as measured in all wells is 0.00 feet (**Figure 10**).

In 2021, remediation activities for Well HTRW-1 have included the use of Cool-Ox, EFR and air sparging. Cool-Ox (calcium peroxide) was used in well HTRW-1 to clean the well and treat any remaining crude oil. EFR was used on wells RW-1 and HTRW-3 to remove impacted groundwater. Initially, the water from these wells was discolored and with time the water clarity improved considerably. An aeration system was installed in well HTRW-1 with air being pumped into the well continuously.

6. Conclusion

The crude oil thickness from the release has declined to none measured due to removal of the crude oil by pumping, the use of EFR and oil absorbent socks since 2012. There has been no measurable crude oil in any of the wells since June 2020.

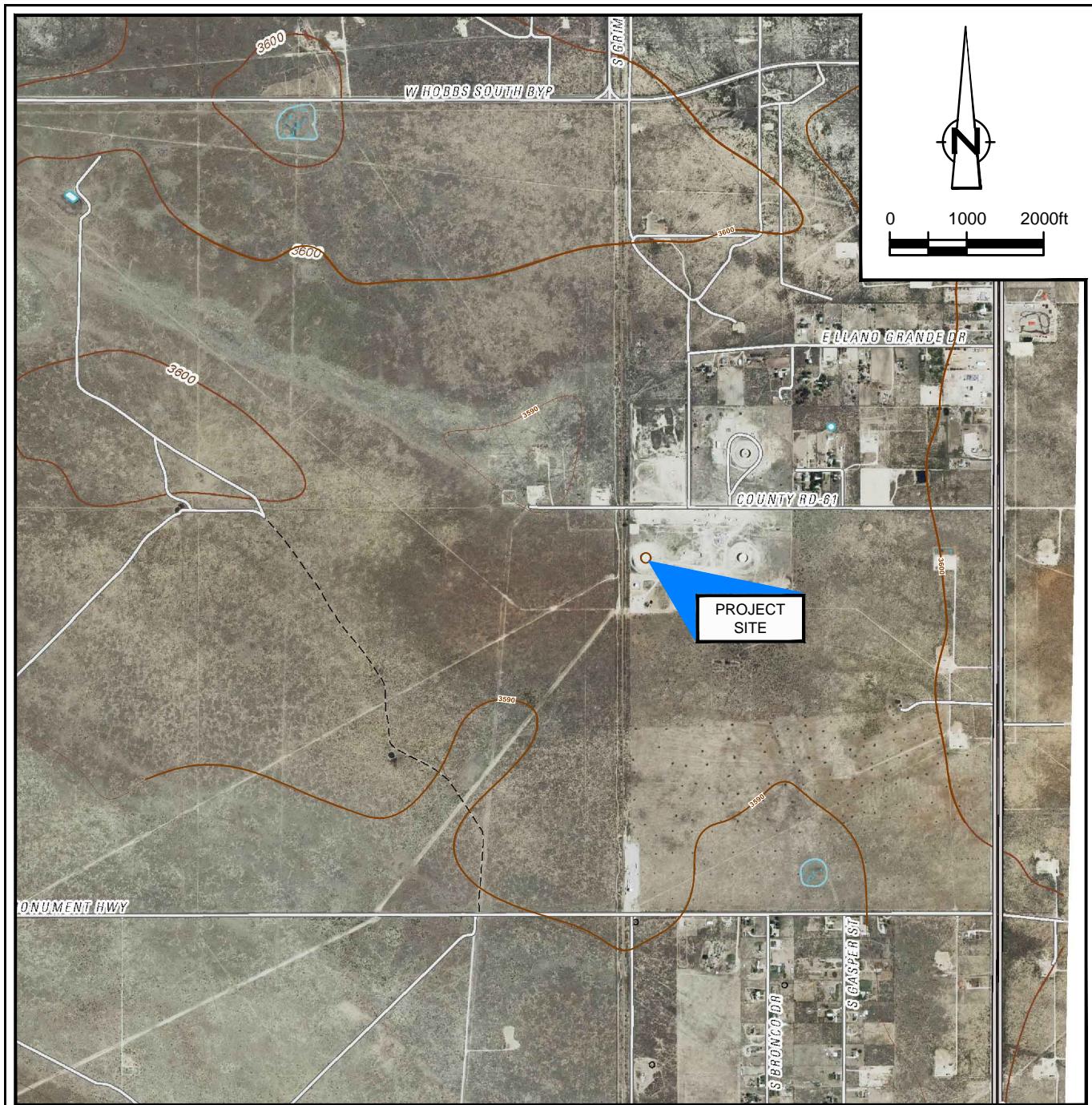


The following items based on discussion with NMOCD will be addressed in 2022:

- Recondition well HTRW-1 by using air sparging.
- Well HTRW-1 will be sampled quarterly.
- All other wells will be sampled semiannually if sufficient water is present.

All groundwater samples will be analyzed for BTEX, GRO and DRO. The remedial strategy for site closure is based on the current NMOCD requirements. To close the Site with no further action, the crude oil would first have to be removed separately from groundwater (19.15.17.13 NMAC) to a *de minimus* amount. To date, there has been two consecutive quarters with no detections of benzene above the state standard in well HTRW-1.

Figures



SOURCE: USGS 7.5 MINUTE QUAD
"HOBBS WEST AND HOBBS EAST, NEW MEXICO" DATED 2010

LAT/LONG: 32.6549° NORTH, 103.1382° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 1

**SITE LOCATION MAP
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
*HollyFrontier***



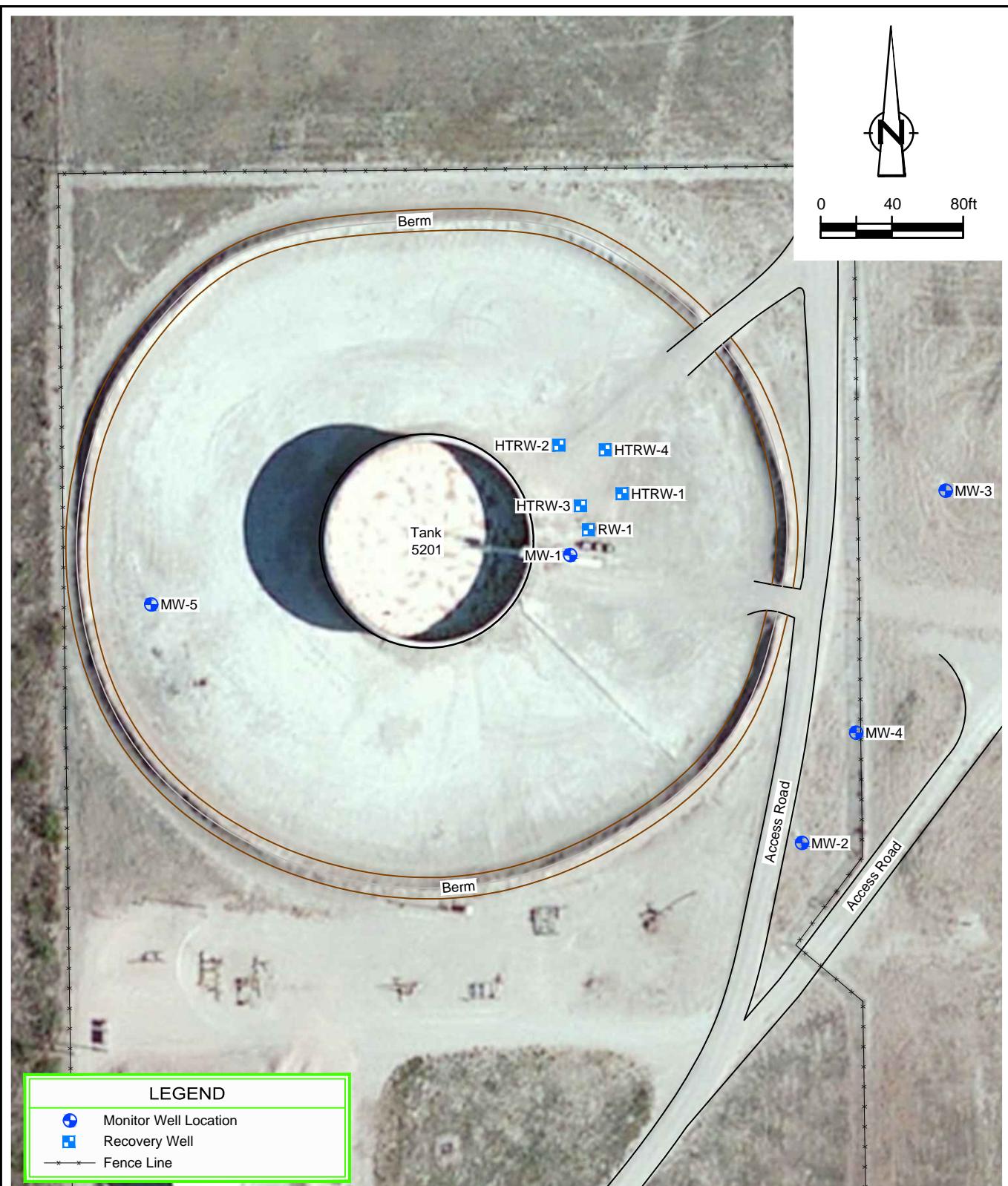
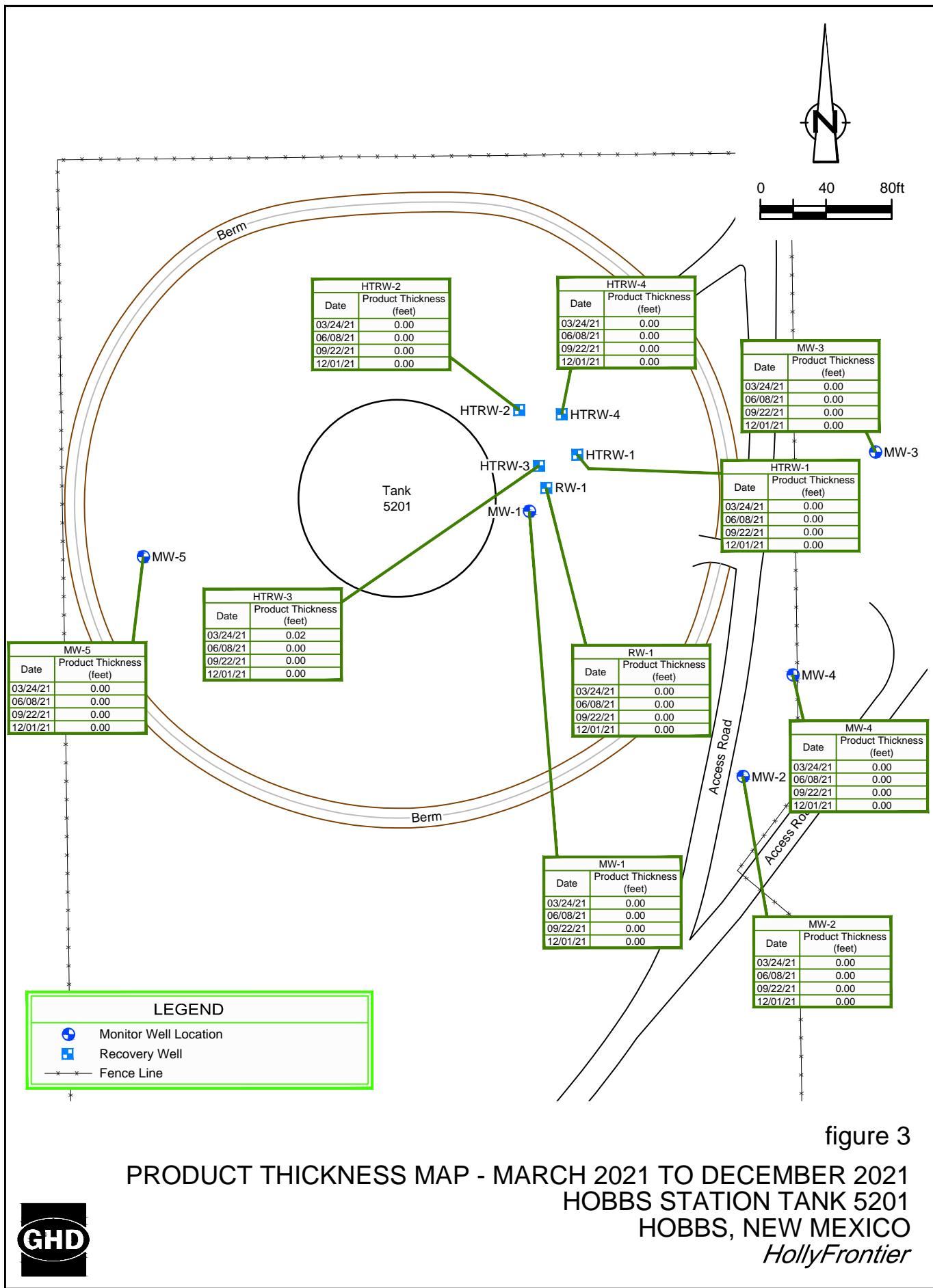
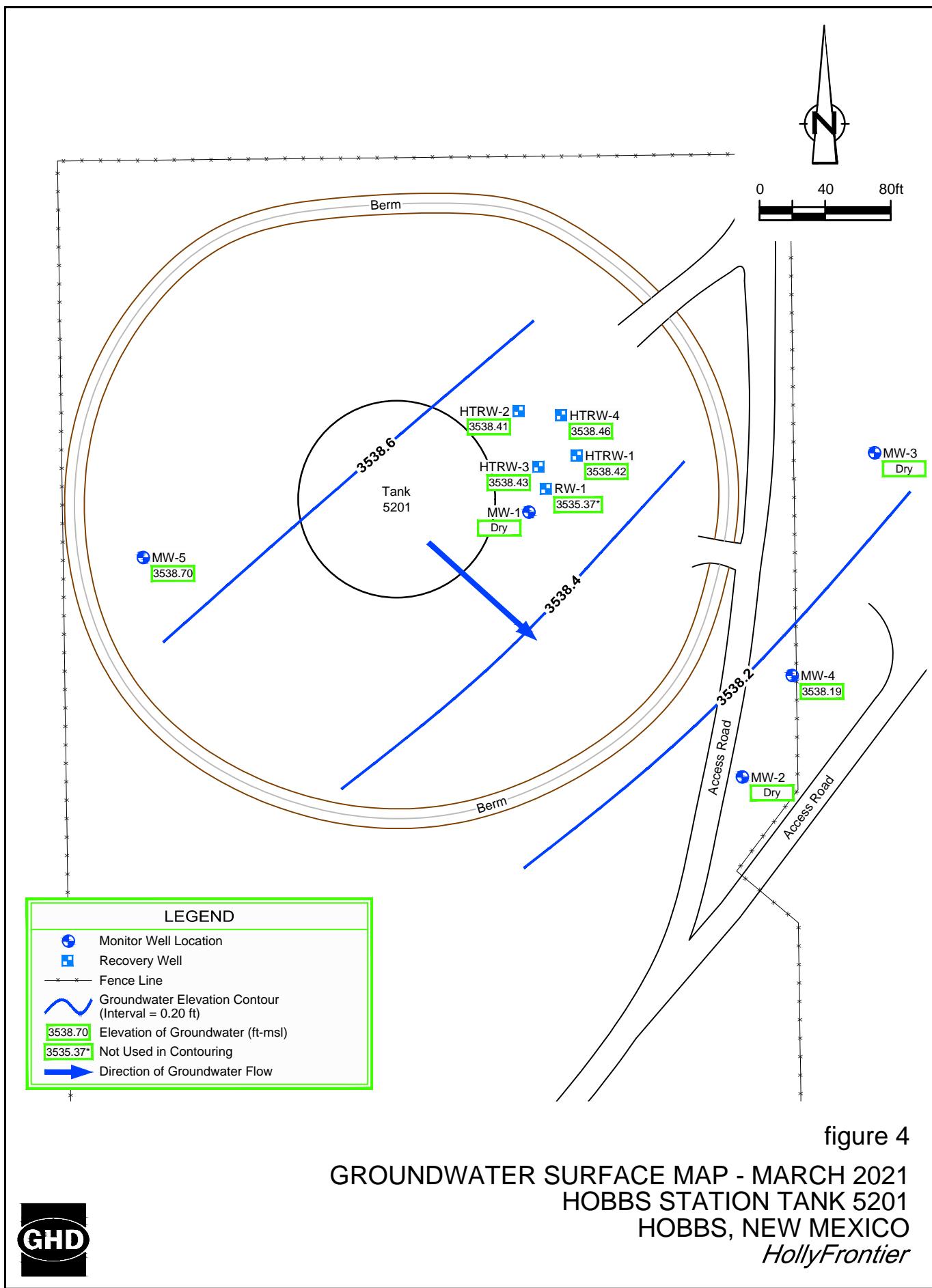
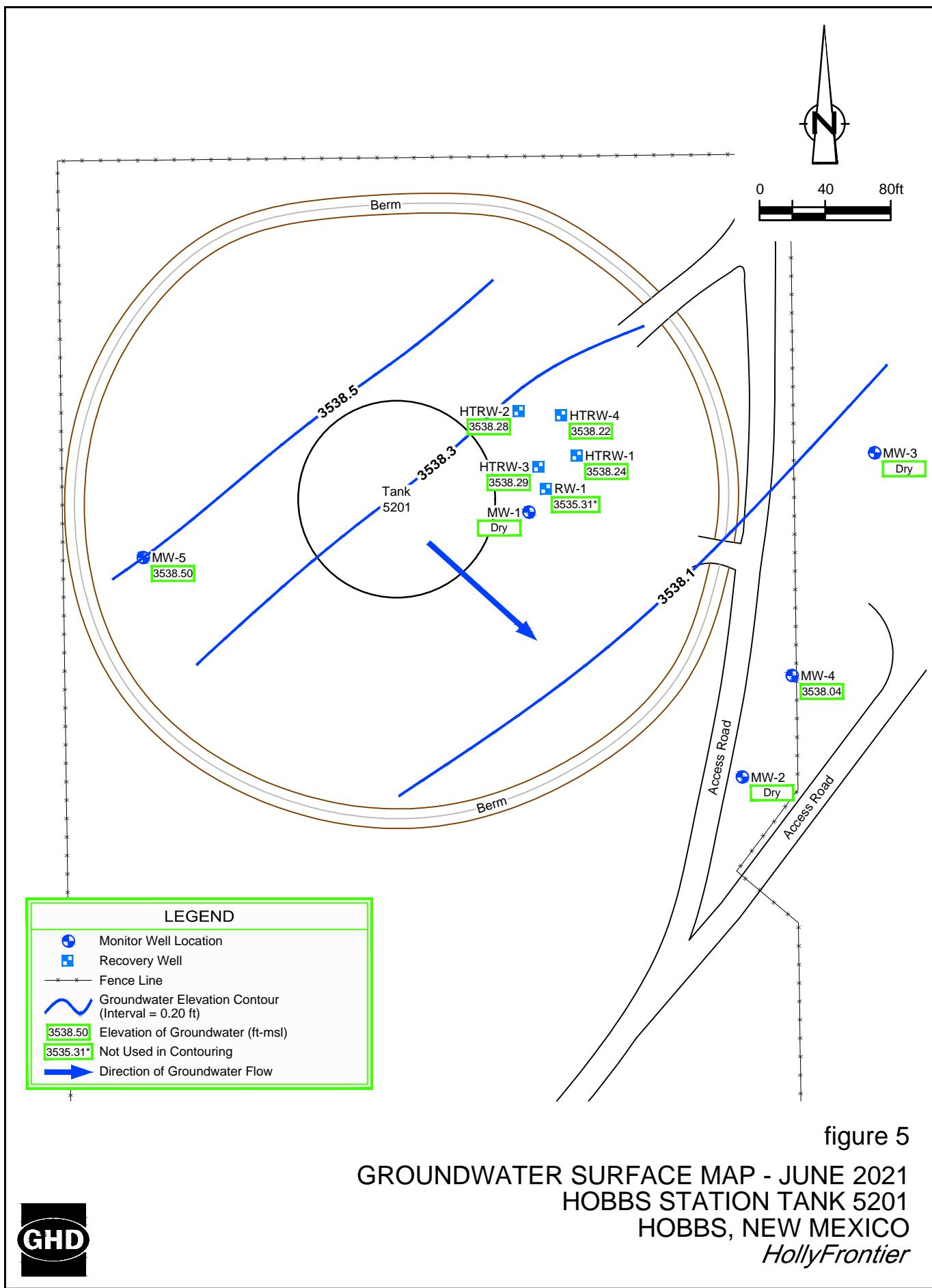


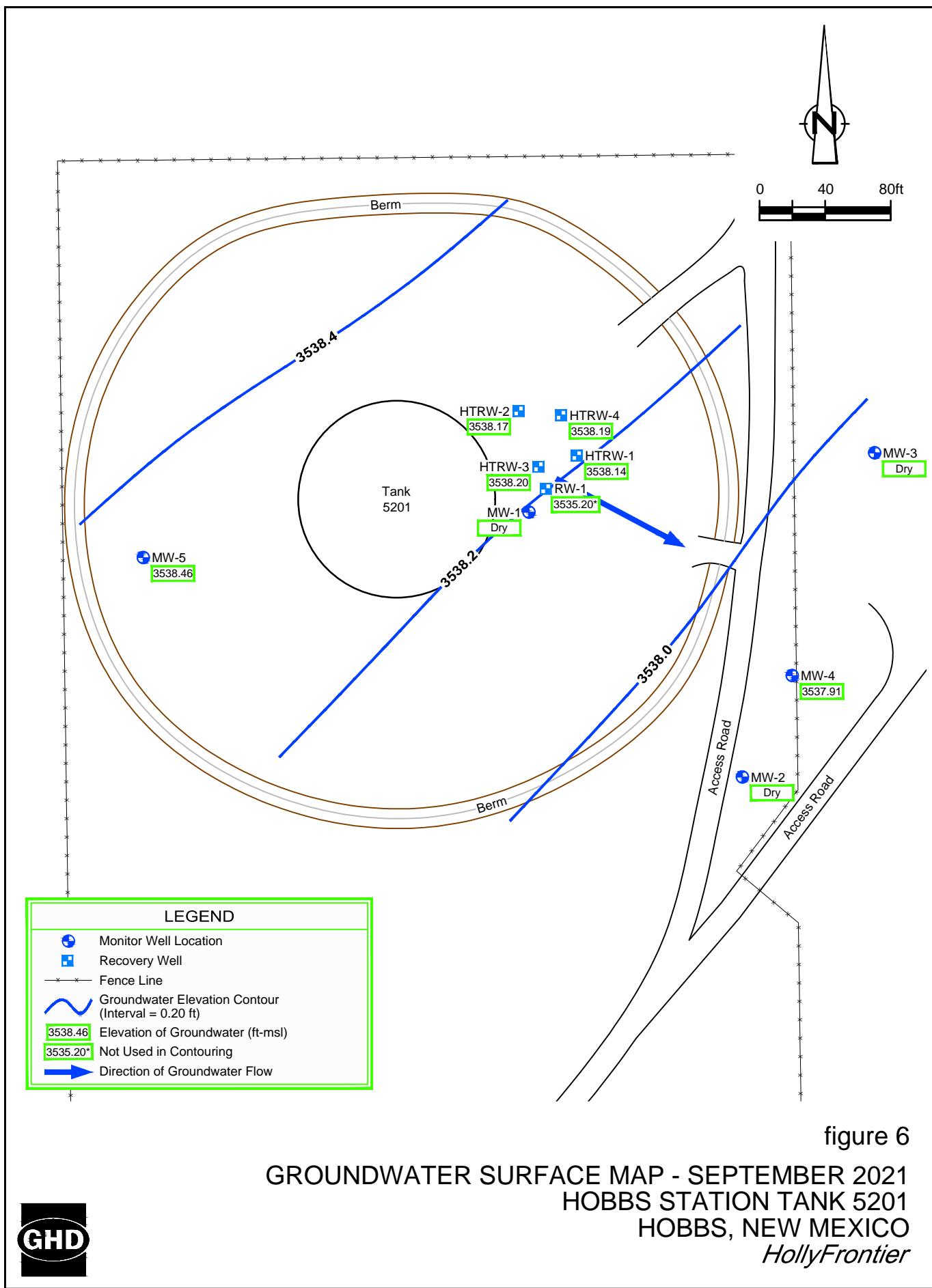
figure 2
SITE MAP
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
HollyFrontier

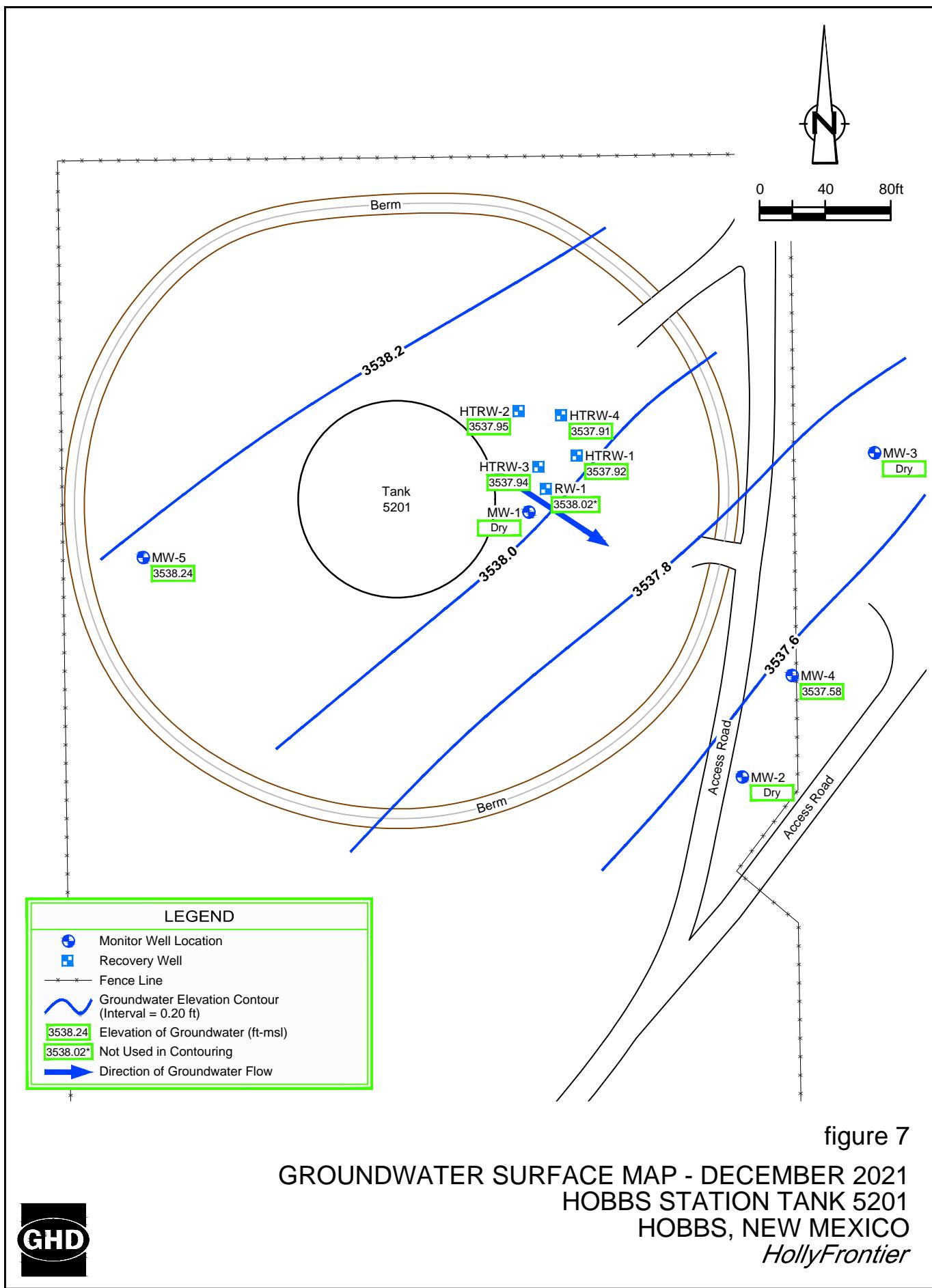


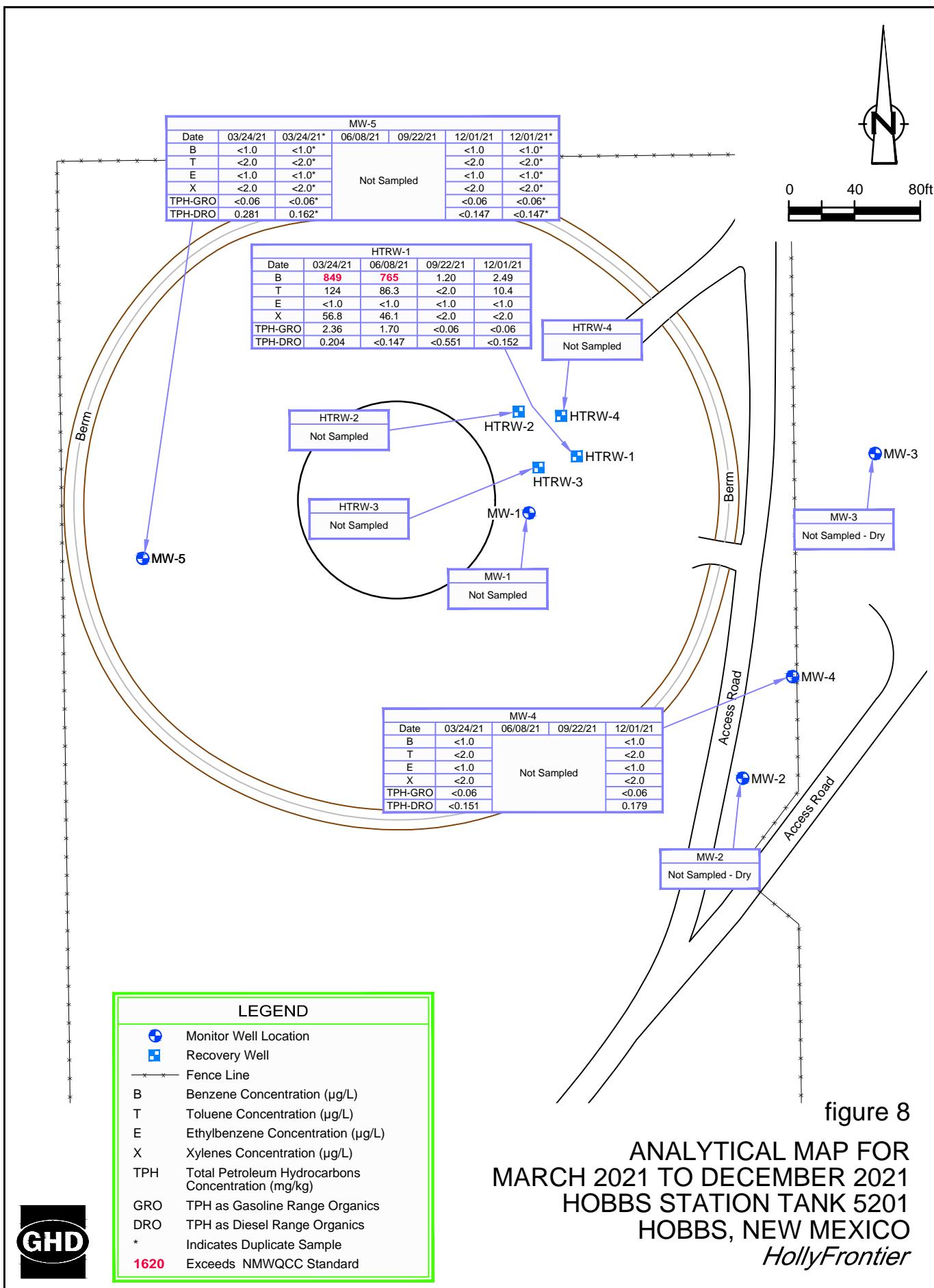












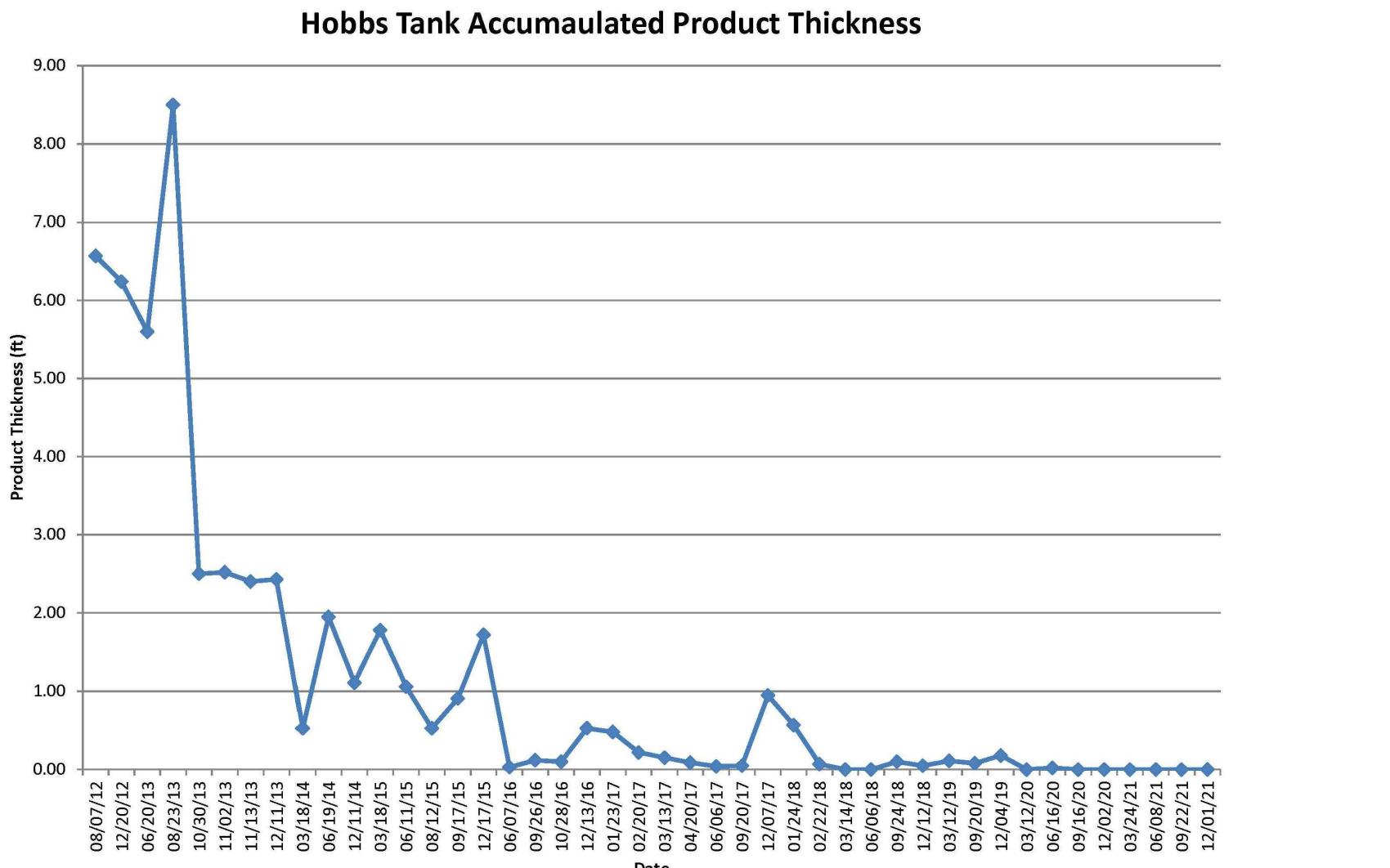
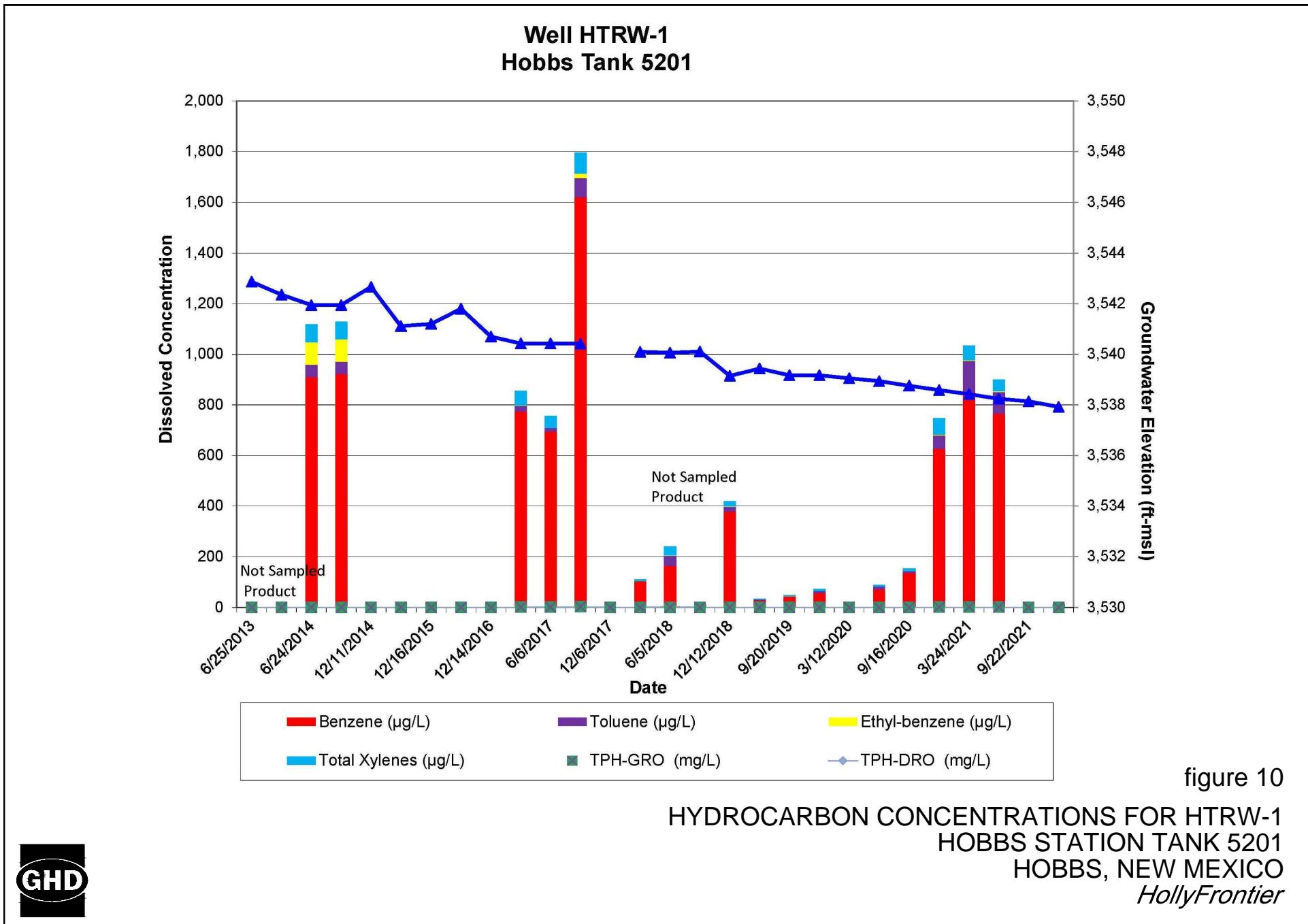
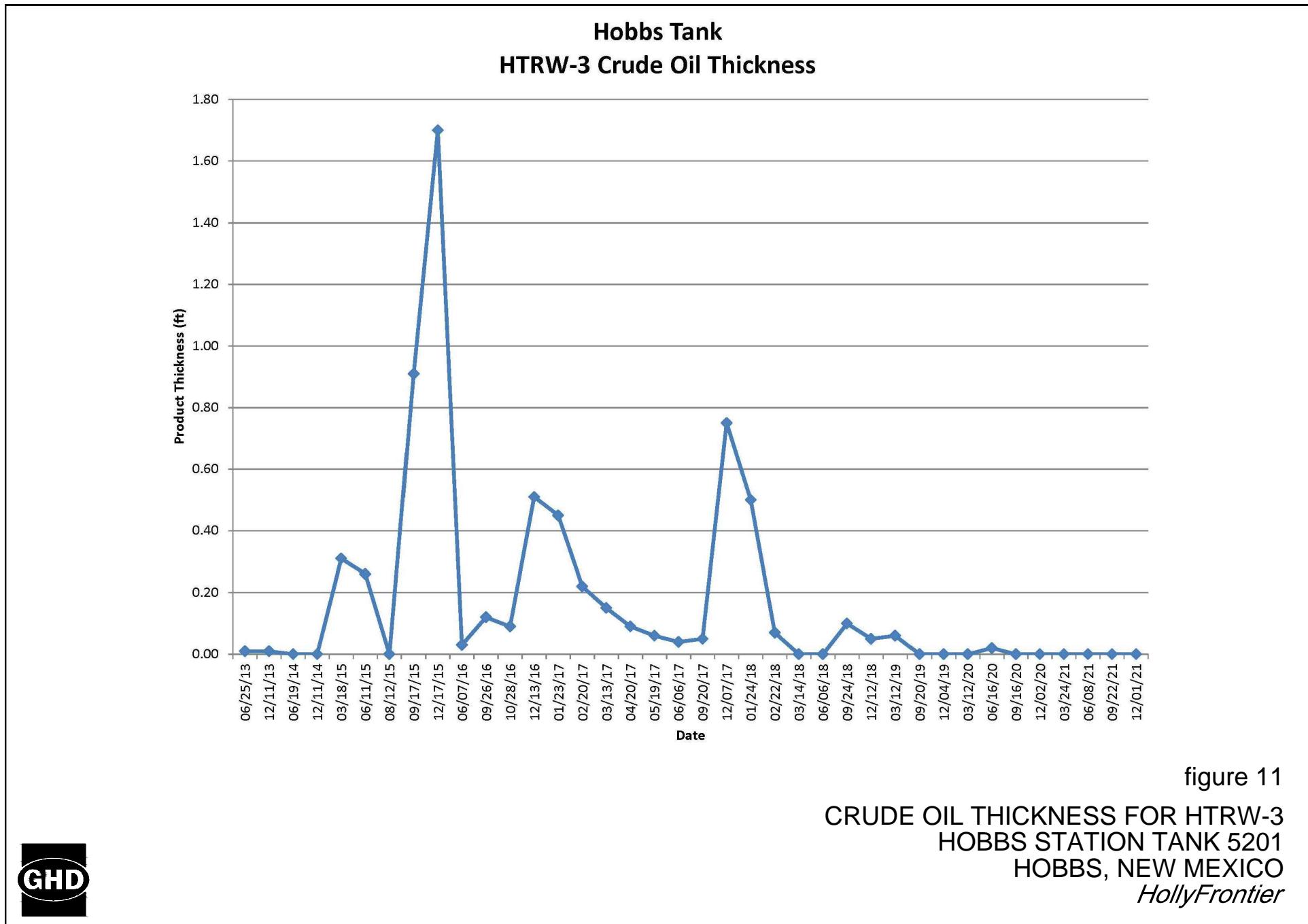


figure 9

SITE TOTAL ACCUMULATED CRUDE OIL THICKNESS
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
HollyFrontier







Tables

Table 1 Summary of Groundwater Hydrocarbon Results for 2021
HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Monitor Well ID | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl- benzene ($\mu\text{g/L}$) | Xylenes ($\mu\text{g/L}$) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | Product Thickness (ft) | Depth to Water (ft-bmp) | Groundwater Elevation (ft-msl) |
|---|-------------|--------------------------------|--------------------------------|--|--------------------------------|-------------------|-------------------|------------------------------|-------------------------------|--------------------------------------|
| NMWQCC Groundwater Standards | | 5 | 1000 | 700 | 620 | NE | NE | | | |
| MW-1 | 03/24/21 | NS | NS | NS | NS | NS | NS | 0.00 | dry | dry |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | 0.00 | dry | dry |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | 0.00 | dry | dry |
| | 12/01/21 | NS | NS | NS | NS | NS | NS | 0.00 | dry | dry |
| MW-2 | 03/24/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry |
| | 06/08/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry |
| | 09/22/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry |
| | 12/01/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry |
| MW-3 | 03/24/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry |
| | 06/08/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry |
| | 09/22/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry |
| | 12/01/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry |
| MW-4 | 03/24/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | <0.151 | 0.00 | 52.66 | 3,538.19 |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | 0.00 | 52.81 | 3,538.04 |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | 0.00 | 52.94 | 3,537.91 |
| | 12/01/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.179 | 0.00 | 53.27 | 3,537.58 |
| MW-5 | 03/24/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.281 | 0.00 | 54.05 | 3,538.70 |
| duplicate | 03/24/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.162 | 0.00 | 54.05 | 3,538.70 |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | 0.00 | 54.05 | 3,538.50 |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | 0.00 | 54.29 | 3,538.46 |
| duplicate | 12/01/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | <0.147 | 0.00 | 54.51 | 3,538.24 |
| | 12/01/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | <0.147 | 0.00 | 54.51 | 3,538.24 |
| HTRW-1 | 03/24/21 | 849 | 124 | <1.0 | 56.8 | 2.36 | 0.204 | 0.00 | 49.72 | 3,538.42 |
| | 06/08/21 | 765 | 86.3 | <1.0 | 46.1 | 1.70 | <0.147 | 0.00 | 49.90 | 3,538.24 |
| | 09/22/21 | 1.20 | <2.0 | <1.0 | <2.0 | <0.06 | <0.551 | 0.00 | 50.00 | 3,538.14 |
| | 12/01/21 | 2.49 | 10.4 | <1.0 | <2.0 | <0.06 | <0.152 | 0.00 | 50.22 | 3,537.92 |
| HTRW-2 | 03/24/21 | NS | NS | NS | NS | NS | NS | 0.00 | 49.10 | 3,538.41 |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | 0.00 | 49.23 | 3,538.28 |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | 0.00 | 49.34 | 3,538.17 |
| | 12/01/21 | NS | NS | NS | NS | NS | NS | 0.00 | 49.56 | 3,537.95 |
| HTRW-3 | 03/24/21 | NS | NS | NS | NS | NS | NS | 0.02 | 50.32 | 3,538.43 |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | 0.00 | 50.46 | 3,538.29 |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | 0.00 | 50.55 | 3,538.20 |
| | 12/01/21 | NS | NS | NS | NS | NS | NS | 0.00 | 50.81 | 3,537.94 |
| HTRW-4 | 03/24/21 | NS | NS | NS | NS | NS | NS | 0.00 | 50.11 | 3,538.46 |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | 0.00 | 50.35 | 3,538.22 |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | 0.00 | 50.38 | 3,538.19 |
| | 12/01/21 | NS | NS | NS | NS | NS | NS | 0.00 | 50.66 | 3,537.91 |
| RW-1 | 03/24/21 | NS | NS | NS | NS | NS | NS | 0.00 | 53.72 | 3,535.37 |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | 0.00 | 53.78 | 3,535.31 |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | 0.00 | 53.89 | 3,535.20 |
| | 12/01/21 | NS | NS | NS | NS | NS | NS | 0.00 | 51.07 | 3,538.02 |

Notes:

BOLD = Exceeds New Mexico Water Quality Commission (NMWQC) Standard

µg/L = microgram per liter

< = Not detected above indicated level

ft-bmp - feet-below measuring point

ft-msl - feet-mean sea level

NSP - Not Sampled Product

NS - Not Sampled

NA - Not Analyzed

NE - Not Established

BTEX = Benzene, Toluene, Ethylbenzene and Xylenes

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics

BTEX analyzed by Method SW8260C

TPH-GRO analyzed by Method 8015V

TPH-DRO analyzed by Method 8015D

Table 2 Summary of Groundwater QA/QC Results for 2021
HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Well No. | Date Sampled | Laboratory Analytical Results | | | | | |
|-----------------------------|--------------|-------------------------------|-------------------|-------------------------|-------------------------|-------------------|-------------------|
| | | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH-GRO (mg/L) | TPH-DRO (mg/L) |
| NMWQC Groundwater Standards | | 5 | 1000 | 700 | 620 | NE | NE |
| MW-5 | 03/24/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.281 |
| | 03/24/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.162 |
| MW-5 | 12/01/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | <0.147 |
| | 12/01/21 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | <0.147 |
| Trip Blank | 03/24/21 | <1.0 | <2.0 | <1.0 | <1.0 | <0.06 | NA |
| Trip Blank | 12/01/21 | <1.0 | <2.0 | <1.0 | <1.0 | <0.06 | NA |

Notes:

(µg/L) = micrograms per liter

mg/L= micrograms per liter

< = Not detected above indicated level

NE - Not Established

NA - Not Analyzed

BTEX = Benzene, Toluene, Ethylbenzene and Xylenes

BTEX analyzed by Method EPA 8260C

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics

TPH-GRO analyzed by Method 8015V

TPH-DRO analyzed by Method 8015D

Mercury analyzed by Method SW7470A

Chloride, Nitrate and Sulfate analyzed by Method E300

Bicarbonate analyzed by Method M2320B

TDS analyzed by Method M2540C

All other metals analyzed by Method SW6020A

Appendix A

Summary of Historical Fluid Levels

Appendix A Summary of Fluid Levels
HollyFrontier- Hobbs Tank 5201 - Lea County, New Mexico

| Well ID/MP Elevation | Date | DTP (ft-bmp) | DTW (ft-bmp) | Prod. Thick (ft) | TD (ft-bmp) | Groundwater Elevation (ft-msl) | Corrected Groundwater Elevation ¹ (ft-msl) | Totalizer (gals) |
|----------------------|----------|--------------|--------------|------------------|-------------|--------------------------------|---|------------------|
| RW-1 | 08/07/12 | 48.06 | 51.01 | 2.95 | 58.19 | 3538.08 | 3,540.23 | |
| 3589.09 | 12/20/12 | 48.47 | 51.48 | 3.01 | | 3537.61 | 3,539.81 | |
| | 06/20/13 | 48.89 | 51.65 | 2.76 | | 3537.44 | 3,539.45 | |
| | 08/23/13 | 49.05 | 51.95 | 2.90 | | 3537.14 | 3,539.26 | 0 |
| | 10/30/13 | | | | | 0.00 | 3,589.09 | |
| | 11/02/13 | | | | | | 9.7 | |
| | 11/13/13 | | | | | | 9.9 | |
| | 12/11/13 | 49.69 | 49.70 | 0.01 | | 3539.39 | 3,539.40 | 10.0 |
| | 03/18/14 | | 49.92 | 0.00 | | 3539.17 | 3,539.17 | 11.1 |
| | 06/19/14 | 50.19 | 50.20 | 0.01 | | 3538.89 | 3,538.90 | 13.1 |
| | 12/11/14 | 50.41 | 50.47 | 0.06 | | 3538.62 | 3,538.66 | |
| | 03/18/15 | 50.60 | 50.73 | 0.13 | | 3538.36 | 3,538.45 | |
| | 06/11/15 | trace | 50.75 | 0.00 | | 3538.34 | 3538.34 | |
| | 08/12/15 | | 50.93 | 0.00 | | 3538.16 | 3,538.16 | |
| | 09/17/15 | | 51.02 | 0.00 | | 3538.07 | 3,538.07 | |
| | 12/17/15 | trace | 50.92 | 0.00 | | 3538.17 | 3538.17 | |
| | 06/07/16 | | 51.32 | 0.00 | | 3537.77 | 3,537.77 | |
| | 09/26/16 | | 50.98 | 0.00 | | 3538.11 | 3,538.11 | |
| | 10/28/16 | | 50.96 | 0.00 | | 3538.13 | 3,538.13 | |
| | 12/13/16 | | 51.46 | 0.00 | | 3537.63 | 3,537.63 | |
| | 01/23/17 | | 51.55 | 0.00 | | 3537.54 | 3,537.54 | |
| | 02/20/17 | | 51.65 | 0.00 | | 3537.44 | 3,537.44 | |
| | 03/13/17 | | 51.60 | 0.00 | | 3537.49 | 3,537.49 | |
| | 04/20/17 | | 51.61 | 0.00 | | 3537.48 | 3,537.48 | |
| | 06/06/17 | | 51.71 | 0.00 | | 3537.38 | 3,537.38 | |
| | 09/20/17 | | 51.79 | 0.00 | | 3537.30 | 3,537.30 | |
| | 12/07/17 | | 51.91 | 0.00 | | 3537.18 | 3,537.18 | |
| | 01/24/18 | 51.99 | 52.04 | 0.05 | | 3537.05 | 3,537.09 | |
| | 02/22/18 | | 52.06 | 0.00 | | 3537.03 | 3,537.03 | |
| | 03/14/18 | | 52.06 | 0.00 | | 3537.03 | 3,537.03 | |
| | 06/06/18 | | 51.25 | 0.00 | | 3537.84 | 3,537.84 | |
| | 09/24/18 | | 52.48 | 0.00 | | 3536.61 | 3,536.61 | |
| | 12/12/18 | | 52.48 | 0.00 | | 3536.61 | 3,536.61 | |
| | 03/12/19 | 52.64 | 52.66 | 0.02 | | 3536.43 | 3,536.44 | |
| | 09/20/19 | | 52.95 | 0.00 | | 3536.14 | 3,536.14 | |
| | 12/04/19 | | 53.10 | 0.00 | | 3535.99 | 3,535.99 | |
| | 03/12/20 | | 53.19 | 0.00 | | 3535.90 | 3,535.90 | |
| | 06/16/20 | | 53.30 | 0.00 | | 3535.79 | 3,535.79 | |
| | 09/16/20 | | 53.43 | 0.00 | | 3535.66 | 3,535.66 | |
| | 12/02/20 | | 53.76 | 0.00 | | 3535.33 | 3,535.33 | |
| | 03/24/21 | | 53.72 | 0.00 | | 3535.37 | 3,535.37 | |
| | 06/08/21 | | 53.78 | 0.00 | | 3535.31 | 3,535.31 | |
| | 09/22/21 | | 53.89 | 0.00 | | 3535.20 | 3,535.20 | |
| | 12/01/21 | | 51.07 | 0.00 | | 3538.02 | 3,538.02 | |
| MW-1 | 08/07/12 | 47.88 | 51.50 | 3.62 | 52.59 | 3540.55 | 3,543.19 | |
| 3592.05 | 12/20/12 | 48.32 | 51.55 | 3.23 | | 3540.50 | 3,542.86 | |
| | 06/20/13 | 48.68 | 51.50 | 2.82 | | 3540.55 | 3,542.61 | |
| | 10/30/13 | 48.96 | 51.53 | 2.57 | | 3540.52 | 3,542.40 | |
| | 11/02/13 | 49.04 | 51.54 | 2.50 | | 3540.51 | 3,542.34 | |
| | 11/13/13 | 49.06 | 51.58 | 2.52 | | 3540.47 | 3,542.31 | |
| | 12/11/13 | 49.15 | 51.55 | 2.40 | | 3540.50 | 3,542.25 | |
| | 06/19/14 | 49.65 | 51.59 | 1.94 | | 3540.46 | 3,541.88 | |
| | 12/11/14 | 50.26 | 51.26 | 1.00 | | 3540.79 | 3,541.52 | |
| | 03/18/15 | 50.39 | 51.71 | 1.32 | | 3540.34 | 3541.30 | |
| | 06/11/15 | | 50.66 | 0.00 | | 3541.39 | 3541.39 | |
| | 08/12/15 | 50.79 | 51.32 | 0.53 | | 3540.73 | 3541.12 | |
| | 09/17/15 | | 51.12 | 0.00 | | 3540.93 | 3540.93 | |
| | 12/17/15 | | 50.87 | 0.00 | | 3541.18 | 3541.18 | |
| | 06/07/16 | | 51.22 | 0.00 | | 3540.83 | 3540.83 | |
| | 09/26/16 | | 50.90 | 0.00 | | 3541.15 | 3541.15 | |
| | 10/28/16 | | 50.92 | 0.00 | | 3541.13 | 3541.13 | |
| | 12/13/16 | 51.38 | 51.40 | 0.02 | | 3540.65 | 3540.66 | |
| | 01/23/17 | 51.49 | 51.52 | 0.03 | | 3540.53 | 3540.55 | |
| | 02/20/17 | | 51.55 | 0.00 | | 3540.50 | 3540.50 | |
| | 03/13/17 | | 51.58 | 0.00 | | 3540.47 | 3540.47 | |
| | 04/20/17 | | 51.65 | 0.00 | | 3540.40 | 3540.40 | |
| | 06/06/17 | | 51.72 | 0.00 | | 3540.33 | 3540.33 | |
| | 09/20/17 | | 51.73 | 0.00 | | 3540.32 | 3540.32 | |
| | 12/07/17 | 51.83 | 52.03 | 0.20 | | 3540.02 | 3540.17 | |
| | 01/24/18 | 51.98 | 52.00 | 0.02 | | 3540.05 | 3540.06 | |
| | 02/22/18 | | 52.52 | 0.00 | | 3539.53 | 3539.53 | |
| | 03/14/18 | | 52.60 | 0.00 | | 3539.45 | 3539.45 | |
| | 06/06/18 | | 52.20 | 0.00 | | 3539.85 | 3539.85 | |
| | 09/24/18 | | 52.35 | 0.00 | | 3539.70 | 3539.70 | |
| | 12/12/18 | | 52.37 | 0.00 | | 3539.68 | 3539.68 | |
| | 03/12/19 | 52.65 | 52.68 | 0.03 | | 3539.37 | 3539.39 | |
| | 09/20/19 | 53.00 | 53.08 | 0.08 | | 3538.97 | 3539.03 | |
| | 12/04/19 | 53.10 | 53.28 | 0.18 | | 3538.77 | 3538.90 | |
| | 03/12/20 | 53.10 | 53.17 | 0.07 | | 3538.88 | 3538.93 | |
| | 06/16/20 | | 53.20 | 0.00 | | 3538.85 | 3538.85 | |
| | 09/16/20 | | 53.19 | 0.00 | | 3538.86 | 3538.86 | |
| | 12/02/20 | | 53.32 | 0.00 | | 3538.73 | 3538.73 | |
| | 03/24/21 | dry | 0.00 | | | dry | dry | |
| | 06/08/21 | dry | 0.00 | | | dry | dry | |
| | 09/22/21 | dry | 0.00 | | | dry | dry | |
| | 12/01/21 | dry | 0.00 | | | dry | dry | |

Appendix A Summary of Fluid Levels
HollyFrontier- Hobbs Tank 5201 - Lea County, New Mexico

| Well ID/MP Elevation | Date | DTP (ft-bmp) | DTW (ft-bmp) | Prod. Thick (ft) | TD (ft-bmp) | Groundwater Elevation (ft-msl) | Corrected Groundwater Elevation ¹ (ft-msl) | Totalizer (gals) |
|----------------------|----------|--------------|--------------|------------------|-------------|--------------------------------|---|------------------|
| MW-2 | 08/07/12 | 47.44 | 0.00 | | 52.42 | 3543.41 | | |
| 3590.85 | 12/20/12 | 47.90 | 0.00 | | | 3542.95 | | |
| | 06/25/13 | 48.27 | 0.00 | | | 3542.58 | | |
| | 12/11/13 | 48.74 | 0.00 | | | 3542.11 | | |
| | 06/19/14 | 49.19 | 0.00 | | | 3541.66 | | |
| | 12/11/14 | 49.40 | 0.00 | | | 3541.45 | | |
| | 03/18/15 | 49.63 | 0.00 | | | 3541.22 | | |
| | 06/11/15 | 49.75 | 0.00 | | | 3541.10 | | |
| | 12/16/15 | 49.91 | 0.00 | | | 3540.94 | | |
| | 06/07/16 | 50.32 | 0.00 | | | 3540.53 | | |
| | 12/13/16 | 50.34 | 0.00 | | | 3540.51 | | |
| | 06/06/17 | 50.67 | 0.00 | | | 3540.18 | | |
| | 09/20/17 | 50.67 | 0.00 | | | 3540.18 | | |
| | 12/07/17 | 50.91 | 0.00 | | | 3539.94 | | |
| | 03/14/18 | 51.00 | 0.00 | | | 3539.85 | | |
| | 06/06/18 | 51.22 | 0.00 | | | 3539.63 | | |
| | 09/24/18 | 51.38 | 0.00 | | | 3539.47 | | |
| | 12/12/18 | 51.50 | 0.00 | | | 3539.35 | | |
| | 03/12/19 | 51.62 | 0.00 | | | 3539.23 | | |
| | 09/20/19 | 51.87 | 0.00 | | | 3538.98 | | |
| | 12/04/19 | 51.95 | 0.00 | | | 3538.90 | | |
| | 03/12/20 | 52.05 | 0.00 | | | 3538.80 | | |
| | 06/16/20 | 52.16 | 0.00 | | | 3538.69 | | |
| | 09/16/20 | 52.38 | 0.00 | | | 3538.47 | | |
| | 12/02/20 | 52.40 | 0.00 | | | 3538.45 | | |
| | 03/24/21 | dry | 0.00 | | | dry | | |
| | 06/08/21 | dry | 0.00 | | | dry | | |
| | 09/22/21 | dry | 0.00 | | | dry | | |
| | 12/01/21 | dry | 0.00 | | | dry | | |
| MW-3 | 08/07/12 | 47.43 | 0.00 | 53.20 | 3543.38 | | | |
| 3590.81 | 12/20/12 | 47.87 | 0.00 | | | 3542.94 | | |
| | 06/25/13 | 48.28 | 0.00 | | | 3542.53 | | |
| | 12/11/13 | 48.73 | 0.00 | | | 3542.08 | | |
| | 06/19/14 | 49.20 | 0.00 | | | 3541.61 | | |
| | 12/11/14 | 49.41 | 0.00 | | | 3541.40 | | |
| | 03/18/15 | 49.63 | 0.00 | | | 3541.18 | | |
| | 06/11/15 | 49.78 | 0.00 | | | 3541.03 | | |
| | 12/16/15 | 49.96 | 0.00 | | | 3540.85 | | |
| | 06/07/16 | 50.33 | 0.00 | | | 3540.48 | | |
| | 12/13/16 | 50.38 | 0.00 | | | 3540.43 | | |
| | 06/06/17 | 50.68 | 0.00 | | | 3540.13 | | |
| | 09/20/17 | 50.43 | 0.00 | | | 3540.38 | | |
| | 12/07/17 | 50.91 | 0.00 | | | 3539.90 | | |
| | 03/14/18 | 51.03 | 0.00 | | | 3539.78 | | |
| | 06/06/18 | 51.24 | 0.00 | | | 3539.57 | | |
| | 09/24/18 | 51.43 | 0.00 | | | 3539.38 | | |
| | 12/12/18 | 51.55 | 0.00 | | | 3539.26 | | |
| | 03/12/19 | 51.62 | 0.00 | | | 3539.19 | | |
| | 09/20/19 | 51.88 | 0.00 | | | 3538.93 | | |
| | 12/04/19 | 51.98 | 0.00 | | | 3538.83 | | |
| | 03/12/20 | 52.10 | 0.00 | | | 3538.71 | | |
| | 06/16/20 | 52.20 | 0.00 | | | 3538.61 | | |
| | 09/16/20 | 52.39 | 0.00 | | | 3538.42 | | |
| | 12/02/20 | 52.58 | 0.00 | | | 3538.23 | | |
| | 03/24/21 | 52.70 | 0.00 | | | 3538.11 | | |
| | 06/08/21 | dry | 0.00 | | | dry | | |
| | 09/22/21 | dry | 0.00 | | | dry | | |
| | 12/01/21 | 52.98 | 0.00 | | | 3537.83 | | |
| MW-4 | 08/07/12 | 47.44 | 0.00 | 62.58 | 3543.41 | | | |
| 3590.85 | 12/20/12 | 47.89 | 0.00 | | | 3542.96 | | |
| | 06/25/13 | 48.27 | 0.00 | | | 3542.58 | | |
| | 12/11/13 | 48.72 | 0.00 | | | 3542.13 | | |
| | 06/19/14 | 49.18 | 0.00 | | | 3541.67 | | |
| | 12/11/14 | 49.45 | 0.00 | | | 3541.40 | | |
| | 03/18/15 | 49.61 | 0.00 | | | 3541.24 | | |
| | 06/11/15 | 49.80 | 0.00 | | | 3541.05 | | |
| | 12/16/15 | 49.95 | 0.00 | | | 3540.90 | | |
| | 06/07/16 | 50.32 | 0.00 | | | 3540.53 | | |
| | 12/13/16 | 50.38 | 0.00 | | | 3540.47 | | |
| | 06/06/17 | 50.68 | 0.00 | | | 3540.17 | | |
| | 09/20/17 | 50.68 | 0.00 | | | 3540.17 | | |
| | 12/07/17 | 50.91 | 0.00 | | | 3539.94 | | |
| | 03/14/18 | 51.02 | 0.00 | | | 3539.83 | | |
| | 06/06/18 | 51.24 | 0.00 | | | 3539.61 | | |
| | 09/24/18 | 51.41 | 0.00 | | | 3539.44 | | |
| | 12/12/18 | 51.44 | 0.00 | | | 3539.41 | | |
| | 03/12/19 | 51.59 | 0.00 | | | 3539.26 | | |
| | 09/20/19 | 51.92 | 0.00 | | | 3538.93 | | |
| | 12/04/19 | 51.95 | 0.00 | | | 3538.90 | | |
| | 03/12/20 | 52.06 | 0.00 | | | 3538.79 | | |
| | 06/16/20 | 52.17 | 0.00 | | | 3538.68 | | |
| | 09/16/20 | 52.32 | 0.00 | | | 3538.53 | | |
| | 12/02/20 | 52.49 | 0.00 | | | 3538.36 | | |
| | 03/24/21 | 52.66 | 0.00 | | | 3538.19 | | |
| | 06/08/21 | 52.81 | 0.00 | | | 3538.04 | | |
| | 09/22/21 | 52.94 | 0.00 | | | 3537.91 | | |
| | 12/01/21 | 53.27 | 0.00 | | | 3537.58 | | |

Appendix A Summary of Fluid Levels
 HollyFrontier- Hobbs Tank 5201 - Lea County, New Mexico

| Well ID/MP Elevation | Date | DTP (ft-bmp) | DTW (ft-bmp) | Prod. Thick (ft) | TD (ft-bmp) | Groundwater Elevation (ft-msl) | Corrected Groundwater Elevation ¹ (ft-msl) | Totalizer (gals) |
|----------------------|----------|-----------------|-----------------|---------------------|----------------|-----------------------------------|--|---------------------|
| MW-5 | 08/07/12 | 48.83 | 0.00 | | 58.82 | 3543.92 | | |
| 3592.75 | 12/20/12 | 49.26 | 0.00 | | | 3543.49 | | |
| | 06/25/13 | 49.64 | 0.00 | | | 3543.11 | | |
| | 12/11/13 | 50.09 | 0.00 | | | 3542.66 | | |
| | 06/19/14 | 50.53 | 0.00 | | | 3542.22 | | |
| | 12/11/14 | 50.76 | 0.00 | | | 3541.99 | | |
| | 03/18/15 | 50.99 | 0.00 | | | 3541.76 | | |
| | 06/11/15 | 51.12 | 0.00 | | | 3541.63 | | |
| | 12/17/15 | 51.33 | 0.00 | | | 3541.42 | | |
| | 06/07/16 | 51.68 | 0.00 | | | 3541.07 | | |
| | 12/13/16 | 51.76 | 0.00 | | | 3540.99 | | |
| | 06/06/17 | 52.08 | 0.00 | | | 3540.67 | | |
| | 09/20/17 | 52.07 | 0.00 | | | 3540.68 | | |
| | 12/07/17 | 52.30 | 0.00 | | | 3540.45 | | |
| | 03/14/18 | 52.38 | 0.00 | | | 3540.37 | | |
| | 06/06/18 | 52.58 | 0.00 | | | 3540.17 | | |
| | 09/24/18 | 52.60 | 0.00 | | | 3540.25 | | |
| | 12/12/18 | 52.54 | 0.00 | | | 3540.21 | | |
| | 03/12/19 | 52.97 | 0.00 | | | 3539.78 | | |
| | 09/20/19 | 53.22 | 0.00 | | | 3539.53 | | |
| | 12/04/19 | 53.34 | 0.00 | | | 3539.41 | | |
| | 03/12/20 | 53.40 | 0.00 | | | 3539.35 | | |
| | 06/16/20 | 53.58 | 0.00 | | | 3539.17 | | |
| | 09/16/20 | 53.69 | 0.00 | | | 3539.06 | | |
| | 12/02/20 | 53.91 | 0.00 | | | 3538.84 | | |
| | 03/24/21 | 54.05 | 0.00 | | | 3538.70 | | |
| | 06/08/21 | 54.25 | 0.00 | | | 3538.50 | | |
| | 09/22/21 | 54.29 | 0.00 | | | 3538.46 | | |
| | 12/01/21 | 54.51 | 0.00 | | | 3538.24 | | |
| HTRW-1 | 06/25/13 | 45.27 | 45.28 | 0.01 | 60.10 | 3542.86 | 3,542.87 | |
| 3588.14 | 12/11/13 | 45.78 | 45.79 | 0.01 | | 3542.35 | 3,542.36 | |
| | 06/19/14 | 46.19 | 0.00 | | | 3541.95 | 3,541.95 | |
| | 12/11/14 | 45.46 | 45.51 | 0.05 | | 3542.63 | 3,542.67 | |
| | 03/18/15 | 46.64 | 46.66 | 0.02 | | 3541.48 | 3,541.49 | |
| | 06/11/15 | 46.81 | 47.61 | 0.80 | | 3540.53 | 3,541.11 | |
| | 08/12/15 | 46.91 | 0.00 | | | 3541.23 | 3,541.23 | |
| | 09/17/15 | 46.98 | 0.00 | | | 3541.16 | 3,541.16 | |
| | 12/17/15 | 46.93 | 46.95 | 0.02 | | 3541.19 | 3,541.20 | |
| | 06/07/16 | 46.34 | 0.00 | | | 3541.80 | 3,541.80 | |
| | 09/26/16 | 46.97 | 0.00 | | | 3541.17 | 3,541.17 | |
| | 10/28/16 | 46.94 | 46.95 | 0.01 | | 3541.19 | 3,541.20 | |
| | 12/13/16 | 47.44 | 0.00 | | | 3540.70 | 3,540.70 | |
| | 01/23/17 | 47.58 | 0.00 | | | 3540.56 | 3,540.56 | |
| | 02/20/17 | 47.68 | 0.00 | | | 3540.46 | 3,540.46 | |
| | 03/13/17 | 47.62 | 0.00 | | | 3540.52 | 3,540.52 | |
| | 04/20/17 | 47.67 | 0.00 | | | 3540.47 | 3,540.47 | |
| | 06/06/17 | 47.71 | 0.00 | | | 3540.43 | 3,540.43 | |
| | 09/20/17 | 47.72 | 0.00 | | | 3540.42 | 3,540.42 | |
| | 12/07/17 | NM | NM | | | NM | NM | |
| | 01/24/18 | 48.04 | 0.00 | | | 3540.10 | 3,540.10 | |
| | 02/22/18 | 48.08 | 0.00 | | | 3540.06 | 3,540.06 | |
| | 03/14/18 | 48.03 | 0.00 | | | 3540.11 | 3,540.11 | |
| | 06/06/18 | 48.22 | 0.00 | | | 3539.92 | 3,539.92 | |
| | 09/24/18 | 48.45 | 0.00 | | | 3539.69 | 3,539.69 | |
| | 12/12/18 | 48.99 | 0.00 | | | 3539.15 | 3,539.15 | |
| | 03/12/19 | 48.70 | 0.00 | | | 3539.44 | 3,539.44 | |
| | 09/20/19 | 48.97 | 0.00 | | | 3539.17 | 3,539.17 | |
| | 12/04/19 | 48.97 | 0.00 | | | 3539.17 | 3,539.17 | |
| | 03/12/20 | 49.09 | 0.00 | | | 3539.05 | 3,539.05 | |
| | 06/16/20 | 49.20 | 0.00 | | | 3538.94 | 3,538.94 | |
| | 09/16/20 | 49.38 | 0.00 | | | 3538.76 | 3,538.76 | |
| | 12/02/20 | 49.56 | 0.00 | | | 3538.58 | 3,538.58 | |
| | 03/24/21 | 49.72 | 0.00 | | | 3538.42 | 3,538.42 | |
| | 06/08/21 | 49.90 | 0.00 | | | 3538.24 | 3,538.24 | |
| | 09/22/21 | 50.00 | 0.00 | | | 3538.14 | 3,538.14 | |
| | 12/01/21 | 50.22 | 0.00 | | | 3537.92 | 3,537.92 | |

Appendix A Summary of Fluid Levels
 HollyFrontier- Hobbs Tank 5201 - Lea County, New Mexico

| Well ID/MP Elevation | Date | DTP (ft-bmp) | DTW (ft-bmp) | Prod. Thick (ft) | TD (ft-bmp) | Groundwater Elevation (ft-msl) | Corrected Groundwater Elevation ¹ (ft-msl) | Totalizer (gals) |
|----------------------|----------|-----------------|-----------------|---------------------|----------------|-----------------------------------|--|---------------------|
| HTRW-2 | 06/25/13 | 44.60 | 0.00 | 60.14 | | 3542.91 | | |
| 3587.51 | 12/11/13 | 45.05 | 0.00 | | | 3542.46 | | |
| | 06/19/14 | 45.52 | 0.00 | | | 3541.99 | | |
| | 12/11/14 | 45.79 | 0.00 | | | 3541.72 | | |
| | 03/18/15 | 45.95 | 0.00 | | | 3541.56 | | |
| | 06/11/15 | 46.05 | 0.00 | | | 3541.46 | | |
| | 08/12/15 | 46.22 | 0.00 | | | 3541.29 | | |
| | 09/17/15 | 46.30 | 0.00 | | | 3541.21 | | |
| | 12/17/15 | 46.25 | 0.00 | | | 3541.26 | | |
| | 06/07/16 | 46.66 | 0.00 | | | 3540.85 | | |
| | 09/26/16 | 46.20 | 0.00 | | | 3541.31 | | |
| | 10/28/16 | 46.18 | 0.00 | | | 3541.33 | | |
| | 12/13/16 | 46.74 | 0.00 | | | 3540.77 | | |
| | 01/23/17 | 46.90 | 0.00 | | | 3540.61 | | |
| | 02/20/17 | 46.88 | 0.00 | | | 3540.63 | | |
| | 03/13/17 | 46.93 | 0.00 | | | 3540.58 | | |
| | 04/20/17 | 46.96 | 0.00 | | | 3540.55 | | |
| | 06/06/17 | 47.03 | 0.00 | | | 3540.48 | | |
| | 09/20/17 | 47.08 | 0.00 | | | 3540.43 | | |
| | 12/07/17 | 47.25 | 0.00 | | | 3540.26 | | |
| | 01/24/18 | 48.68 | 0.00 | | | 3538.83 | | |
| | 02/22/18 | 47.38 | 0.00 | | | 3540.13 | | |
| | 03/14/18 | 48.42 | 0.00 | | | 3539.09 | | |
| | 06/06/18 | 47.56 | 0.00 | | | 3539.95 | | |
| | 09/24/18 | 47.77 | 0.00 | | | 3539.74 | | |
| | 12/12/18 | 47.79 | 0.00 | | | 3539.72 | | |
| | 03/12/19 | 48.01 | 0.00 | | | 3539.50 | | |
| | 09/20/19 | 48.28 | 0.00 | | | 3539.23 | | |
| | 12/04/19 | 48.35 | 0.00 | | | 3539.16 | | |
| | 03/12/20 | 48.47 | 0.00 | | | 3539.04 | | |
| | 06/16/20 | 48.59 | 0.00 | | | 3538.92 | | |
| | 09/16/20 | 48.68 | 0.00 | | | 3538.83 | | |
| | 12/02/20 | 48.89 | 0.00 | | | 3538.62 | | |
| | 03/24/21 | 49.10 | 0.00 | | | 3538.41 | | |
| | 06/08/21 | 49.23 | 0.00 | | | 3538.28 | | |
| | 09/22/21 | 49.34 | 0.00 | | | 3538.17 | | |
| | 12/01/21 | 49.56 | 0.00 | | | 3537.95 | | |

Appendix A Summary of Fluid Levels
HollyFrontier- Hobbs Tank 5201 - Lea County, New Mexico

| Well ID/MP Elevation | Date | DTP (ft-bmp) | DTW (ft-bmp) | Prod. Thick (ft) | TD (ft-bmp) | Groundwater Elevation (ft-msl) | Corrected Groundwater Elevation ¹ (ft-msl) | Totalizer (gals) |
|----------------------|----------|--------------|--------------|------------------|-------------|--------------------------------|---|------------------|
| HTRW-3 | 06/25/13 | 45.87 | 45.88 | 0.01 | 60.14 | 3542.87 | 3,542.88 | |
| 3588.75 | 12/11/13 | 46.32 | 46.33 | 0.01 | | 3542.42 | 3,542.43 | |
| | 06/19/14 | | 46.79 | 0.00 | | 3541.96 | 3,541.96 | |
| | 12/11/14 | | 47.03 | 0.00 | | 3541.72 | 3,541.72 | |
| | 03/18/15 | 47.19 | 47.50 | 0.31 | | 3541.25 | 3,541.48 | |
| | 06/11/15 | 47.35 | 47.61 | 0.26 | | 3541.14 | 3,541.33 | |
| | 08/12/15 | | 47.60 | 0.00 | | 3541.15 | 3,541.15 | |
| | 09/17/15 | 47.47 | 48.38 | 0.91 | | 3540.37 | 3,541.03 | |
| | 12/17/15 | 47.30 | 49.00 | 1.70 | | 3539.75 | 3,540.99 | |
| | 06/07/16 | 47.81 | 47.84 | 0.03 | | 3540.91 | 3,540.93 | |
| | 09/26/16 | 47.48 | 47.60 | 0.12 | | 3541.15 | 3,541.24 | |
| | 10/28/16 | 47.46 | 47.55 | 0.09 | | 3541.20 | 3,541.27 | |
| | 12/13/16 | 47.97 | 48.48 | 0.51 | | 3540.27 | 3,540.64 | |
| | 01/23/17 | 48.10 | 48.55 | 0.45 | | 3540.20 | 3,540.53 | |
| | 02/20/17 | 48.28 | 48.50 | 0.22 | | 3540.25 | 3,540.41 | |
| | 03/13/17 | 48.20 | 48.35 | 0.15 | | 3540.40 | 3,540.51 | |
| | 04/20/17 | 48.22 | 48.31 | 0.09 | | 3540.44 | 3,540.51 | |
| | 05/19/17 | 48.24 | 48.30 | 0.06 | | 3540.45 | 3,540.49 | |
| | 06/06/17 | 48.31 | 48.35 | 0.04 | | 3540.40 | 3,540.43 | |
| | 09/20/17 | 48.31 | 48.36 | 0.05 | | 3540.39 | 3,540.43 | |
| | 12/07/17 | 48.60 | 49.35 | 0.75 | | 3539.40 | 3,539.95 | |
| | 01/24/18 | 48.54 | 49.04 | 0.50 | | 3539.71 | 3,540.08 | |
| | 02/22/18 | 48.68 | 48.75 | 0.07 | | 3540.00 | 3,540.05 | |
| | 03/14/18 | | 48.68 | 0.00 | | 3540.07 | 3,540.07 | |
| | 06/06/18 | | 48.88 | 0.00 | | 3539.87 | 3,539.87 | |
| | 09/24/18 | 49.08 | 49.18 | 0.10 | | 3539.57 | 3,539.64 | |
| | 12/12/18 | 48.08 | 48.13 | 0.05 | | 3540.62 | 3,540.66 | |
| | 03/12/19 | 49.29 | 49.35 | 0.06 | | 3539.40 | 3,539.44 | |
| | 09/20/19 | | 49.60 | 0.00 | | 3539.15 | 3,539.15 | |
| | 12/04/19 | | 49.75 | 0.00 | | 3539.00 | 3,539.00 | |
| | 03/12/20 | | 49.89 | 0.00 | | 3538.86 | 3,538.86 | |
| | 06/16/20 | 49.90 | 49.92 | 0.02 | | 3538.83 | 3,538.84 | |
| | 09/16/20 | | 50.08 | 0.00 | | 3538.67 | 3,538.67 | |
| | 12/02/20 | | 50.24 | 0.00 | | 3538.51 | 3,538.51 | |
| | 03/24/21 | | 50.32 | 0.00 | | 3538.43 | 3,538.43 | |
| | 06/08/21 | | 50.46 | 0.00 | | 3538.29 | 3,538.29 | |
| | 09/22/21 | | 50.55 | 0.00 | | 3538.20 | 3,538.20 | |
| | 12/01/21 | | 50.81 | 0.00 | | 3537.94 | 3,537.94 | |
| HTRW-4 | 06/25/13 | | 45.68 | 0.00 | 60.16 | 3542.89 | | |
| 3588.57 | 12/11/13 | | 46.13 | 0.00 | | 3542.44 | | |
| | 06/19/14 | | 46.59 | 0.00 | | 3541.98 | | |
| | 12/11/14 | | 46.85 | 0.00 | | 3541.72 | | |
| | 03/18/15 | | 47.03 | 0.00 | | 3541.54 | | |
| | 06/11/15 | | 47.11 | 0.00 | | 3541.46 | | |
| | 08/12/15 | | 47.31 | 0.00 | | 3541.26 | | |
| | 09/17/15 | | 47.35 | 0.00 | | 3541.22 | | |
| | 12/17/15 | | 47.32 | 0.00 | | 3541.25 | | |
| | 06/07/16 | | 47.70 | 0.00 | | 3540.87 | | |
| | 09/26/16 | | 47.58 | 0.00 | | 3540.99 | | |
| | 10/28/16 | | 47.55 | 0.00 | | 3541.02 | | |
| | 12/13/16 | | 47.79 | 0.00 | | 3540.78 | | |
| | 01/23/17 | | 47.95 | 0.00 | | 3540.62 | | |
| | 02/20/17 | | 47.97 | 0.00 | | 3540.60 | | |
| | 03/13/17 | | 47.98 | 0.00 | | 3540.59 | | |
| | 04/20/17 | | 48.03 | 0.00 | | 3540.54 | | |
| | 06/06/17 | | 48.09 | 0.00 | | 3540.48 | | |
| | 09/20/17 | | 48.19 | 0.00 | | 3540.38 | | |
| | 12/07/17 | | 48.30 | 0.00 | | 3540.27 | | |
| | 01/24/18 | | 48.40 | 0.00 | | 3540.17 | | |
| | 02/22/18 | | 48.43 | 0.00 | | 3540.14 | | |
| | 03/14/18 | | 48.58 | 0.00 | | 3539.99 | | |
| | 06/06/18 | | 48.64 | 0.00 | | 3539.93 | | |
| | 09/24/18 | | 48.78 | 0.00 | | 3539.79 | | |
| | 12/12/18 | | 48.48 | 0.00 | | 3540.09 | | |
| | 03/12/19 | | 49.05 | 0.00 | | 3539.52 | | |
| | 09/20/19 | | 49.38 | 0.00 | | 3539.19 | | |
| | 12/04/19 | | 49.92 | 0.00 | | 3538.65 | | |
| | 03/12/20 | | 49.55 | 0.00 | | 3539.02 | | |
| | 06/16/20 | | 49.68 | 0.00 | | 3538.89 | | |
| | 09/16/20 | | 49.82 | 0.00 | | 3538.75 | | |
| | 12/02/20 | | 50.01 | 0.00 | | 3538.56 | | |
| | 03/24/21 | | 50.11 | 0.00 | | 3538.46 | | |
| | 06/08/21 | | 50.35 | 0.00 | | 3538.22 | | |
| | 09/22/21 | | 50.38 | 0.00 | | 3538.19 | | |
| | 12/01/21 | | 50.66 | 0.00 | | 3537.91 | | |

Notes:

DTP - depth to product

DTW - depth to water

TD - total depth

ft - feet

ft-bmp - feet-below measuring point

ft-msl - feet-mean sea level

gals - gallons

¹ groundwater elevation corrected for 0.73 specific gravity

Appendix B

Summary of Historical Groundwater Analytical Results and Field Parameters

Appendix B Summary of Historical Groundwater Analytical Results and Field Parameters

HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Monitor Well ID/ MP Elevation | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | Total BTEX ($\mu\text{g/L}$) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | Product Thickness (feet) | Depth to Water (ft-bmp) | Groundwater Elevation (ft-msl) | Temperature (deg-C) | Conductivity (mS/cm) | DO (mg/L) | pH | ORP (mV) |
|-------------------------------|-------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------|----------------|--------------------------|-------------------------|--------------------------------|---------------------|----------------------|-----------|--------|----------|
| NMWQCC Groundwater Standard | | 5 | 1000 | 700 | 620 | -- | NE | NE | | | | | | | | |
| MW-2 | 08/23/04 | 26 | 4 | 5 | 14 | 49 | NA | NA | 0.00 | 43.45 | 3,547.40 | | | | | |
| 3590.85 | 01/11/05 | 72 | <2 | <2 | 15 | 87 | NA | NA | 0.00 | 43.02 | 3,547.83 | | | | | |
| | 03/08/06 | <2 | <2 | <2 | <6 | <2 | NA | NA | 0.00 | 43.44 | 3,547.41 | | | | | |
| | 07/11/06 | 7.0 | <2 | <2 | 16 | 23 | NA | NA | 0.00 | 43.69 | 3,547.16 | | | | | |
| | 09/07/06 | 4.2 | 1.9 | <0.5 | 3.2 | 9.3 | NA | NA | 0.00 | 43.64 | 3,547.21 | | | | | |
| | 12/19/06 | 2.1 | 1.0 | 0.9 | 4.3 | 8.3 | NA | NA | 0.00 | 43.83 | 3,547.02 | | | | | |
| | 03/13/07 | <0.5 | 0.6 | 1.2 | 2.3 | 4.1 | NA | NA | 0.00 | 44.04 | 3,546.81 | | | | | |
| | 06/21/07 | 0.8 | 0.7 | <0.5 | 3.8 | 5.3 | NA | NA | 0.00 | 44.11 | 3,546.74 | | | | | |
| | 09/21/07 | 1.4 | 1.1 | <0.5 | 3.2 | 5.7 | NA | NA | 0.00 | 43.87 | 3,546.98 | | | | | |
| | 12/07/07 | 1.4 | 1.0 | 0.9 | 3.5 | 6.8 | NA | NA | 0.00 | 44.17 | 3,546.68 | | | | | |
| | 03/04/08 | 1.4 | 0.8 | 1.8 | 3.3 | 7.3 | NA | NA | 0.00 | 44.27 | 3,546.58 | | | | | |
| | 06/03/08 | 1.7 | 0.9 | 1.5 | 2.1 | 6.2 | NA | NA | 0.00 | 44.42 | 3,546.43 | | | | | |
| | 09/23/08 | 1.2 | <0.5 | 0.6 | 3.8 | 5.6 | NA | NA | 0.00 | 44.69 | 3,546.16 | | | | | |
| | 12/18/08 | 1.0 | 0.8 | <0.5 | 1.2 | 3.0 | NA | NA | 0.00 | 45.82 | 3,545.03 | | | | | |
| | 03/16/09 | 0.9 | 0.7 | <0.5 | 2.9 | 4.5 | NA | NA | 0.00 | 44.98 | 3,545.87 | | | | | |
| | 06/23/09 | 1.2 | <1.0 | <1.0 | <2.0 | 1.2 | NA | NA | 0.00 | 45.12 | 3,545.73 | | | | | |
| | 09/08/09 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 45.29 | 3,545.56 | | | | | |
| | 12/17/09 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 45.50 | 3,545.35 | | | | | |
| | 03/09/10 | <1.0 | <1.0 | <1.0 | <1.5 | <1.0 | NA | NA | 0.00 | 45.70 | 3,545.15 | | | | | |
| | 06/16/10 | <1.0 | <1.0 | <1.0 | 2.5 | 2.5 | NA | NA | 0.00 | 45.85 | 3,545.00 | | | | | |
| | 09/01/10 | 1.0 | <1.0 | <1.0 | <2.0 | 1.0 | NA | NA | 0.00 | 45.82 | 3,545.03 | | | | | |
| | 12/06/10 | 1.6 | <1.0 | <1.0 | <2.0 | 1.6 | NA | NA | 0.00 | 46.05 | 3,544.80 | | | | | |
| | 03/18/11 | 1.3 | <1.0 | 14 | 2.9 | 18.2 | NA | NA | 0.00 | 46.18 | 3,544.67 | | | | | |
| | 06/23/11 | 1.1 | <1.0 | 26 | 3.2 | 30.3 | NA | NA | 0.00 | 46.40 | 3,544.45 | | | | | |
| | 10/07/11 | 1.2 | <1.0 | 14 | <2.0 | 15.2 | NA | NA | 0.00 | 46.75 | 3,544.10 | | | | | |
| | 12/08/11 | 1.4 | <1.0 | 5.7 | 3.6 | 10.7 | NA | NA | 0.00 | 46.91 | 3,543.94 | | | | | |
| | 08/07/12 | <1.0 | <5.0 | <5.0 | <15 | <15 | NA | NA | 0.00 | 47.44 | 3,543.41 | 30.34 | 1.615 | 0.05 | 6.48 | -125.9 |
| | 12/20/12 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 47.90 | 3,542.95 | 17.51 | 1.094 | 0.74 | 6.85 | -254.0 |
| | 06/25/13 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 48.27 | 3,542.58 | 22.10 | 1.249 | 0.30 | 6.76 | -60.6 |
| | 12/11/13 | 1.02 | <2.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 48.74 | 3,542.11 | 21.11 | 1.27 | 1.51 | 7.14 | -117.0 |
| | 06/25/14 | <1.0 | <2.0 | <1.0 | 1.43 | | NA | NA | 0.00 | 49.19 | 3,541.66 | 19.94 | 1.078 | 1.19 | 6.89 | -66.5 |
| | 12/11/14 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.50 | 0.534 | 0.00 | 49.40 | 3,541.45 | 18.67 | 1.192 | 0.58 | 6.60 | -102.3 |
| | 06/11/15 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.10 | 0.337 | 0.00 | 49.75 | 3,541.10 | 35.49 | 1.265 | 2.20 | 6.75 | -100.1 |
| | 12/16/15 | <1.0 | <2.0 | <1.0 | <1.0 | | 0.141 | 0.678 | 0.00 | 49.91 | 3,540.94 | 18.56 | 1.274 | 0.75 | 6.94 | -76.7 |
| | 06/09/16 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.06 | 5.53 | 0.00 | 50.32 | 3,540.53 | 20.52 | 4.885 | 2.80 | 6.63 | 29.0 |
| | 12/14/16 | <1.0 | <2.0 | <1.0 | <1.0 | | 0.097 | 5.53 | 0.00 | 50.34 | 3,540.51 | 18.90 | 2.171 | 2.37 | 7.61 | -72.8 |
| | 06/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.105 | 4.98 | 0.00 | 50.67 | 3,540.18 | 22.15 | 1.549 | 1.85 | 6.85 | -55.9 |
| | 09/19/17 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.093 | 2.74 | 0.00 | 50.67 | 3,540.18 | 22.80 | 1.627 | 0.96 | 6.71 | -71.3 |
| | 12/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.795 | 0.00 | 50.91 | 3,539.94 | 19.01 | 2.887 | 1.21 | 7.01 | -44.3 |
| | 03/14/18 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.101 | 1.91 | 0.00 | 51.00 | 3,539.85 | 21.11 | 1.403 | 0.98 | 6.87 | -13.3 |
| | 06/05/18 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.140 | 1.89 | 0.00 | 51.22 | 3,539.63 | 22.85 | 1.787 | 1.07 | 6.93 | -56.2 |
| | 09/24/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 2.33 | 0.00 | 51.38 | 3,539.47 | 22.55 | 2.011 | 1.57 | 7.16 | -33.6 |
| | 12/12/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 2.56 | 0.00 | 51.50 | 3,539.35 | 19.83 | 2.334 | 1.33 | 7.22 | -39.0 |
| | 03/12/19 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.091 | NA | 0.00 | 51.62 | 3,539.23 | 20.04 | 1.906 | 1.04 | 7.07 | -60.8 |
| | 09/20/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | NA | 0.00 | 51.87 | 3,538.98 | 21.66 | 2.112 | 1.26 | 6.96 | -26.3 |
| | 12/04/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | NA | 0.00 | 51.95 | 3,538.90 | 19.92 | 1.883 | 1.11 | 7.12 | -45.6 |
| | 03/12/20 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | | NS-Dry | NS-Dry | 0.00 | 52.05 | 3,538.80 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 06/16/20 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | | NS-Dry | NS-Dry | 0.00 | 52.16 | 3,538.69 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 09/16/20 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | | NS-Dry | NS-Dry | 0.00 | 52.38 | 3,538.47 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 12/02/20 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | | NS-Dry | NS-Dry | 0.00 | 52.40 | 3,538.45 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 03/24/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | | NS-Dry | NS-Dry | 0.00 | dry | dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 06/08/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | | NS-Dry | NS-Dry | 0.00 | dry | dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 09/22/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | | NS-Dry | NS-Dry | 0.00 | dry | dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 12/01/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | | NS-Dry | NS-Dry | 0.00 | dry | dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |

Appendix B Summary of Historical Groundwater Analytical Results and Field Parameters

HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Monitor Well ID/ MP Elevation | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | Total BTEX ($\mu\text{g/L}$) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | Product Thickness (feet) | Depth to Water (ft-bmp) | Groundwater Elevation (ft-msl) | Temperature (deg-C) | Conductivity (mS/cm) | DO (mg/L) | pH | ORP (mV) |
|-------------------------------|-------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------|----------------|--------------------------|-------------------------|--------------------------------|---------------------|----------------------|-----------|--------|----------|
| NMWQCC Groundwater Standard | | 5 | 1000 | 700 | 620 | -- | NE | NE | | | | | | | | |
| MW-3 | 08/23/04 | <2 | <2 | <2 | <6 | <2 | NA | NA | 0.00 | 43.50 | 3,547.31 | | | | | |
| 3590.81 | 01/11/05 | <2 | <2 | <2 | <6 | <2 | NA | NA | 0.00 | 42.93 | 3,547.88 | | | | | |
| | 03/08/06 | <2 | <2 | <2 | <6 | <2 | NA | NA | 0.00 | 43.35 | 3,547.46 | | | | | |
| | 07/11/06 | <2 | <2 | <2 | <6 | <2 | NA | NA | 0.00 | 43.63 | 3,547.18 | | | | | |
| | 09/07/06 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | NA | NA | 0.00 | 43.61 | 3,547.20 | | | | | |
| | 12/19/06 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | NA | NA | 0.00 | 43.76 | 3,547.05 | | | | | |
| | 03/13/07 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 43.97 | 3,546.84 | | | | | |
| | 06/21/07 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 44.03 | 3,546.78 | | | | | |
| | 09/21/07 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 43.83 | 3,546.98 | | | | | |
| | 12/07/07 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 44.11 | 3,546.70 | | | | | |
| | 03/04/08 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 44.32 | 3,546.49 | | | | | |
| | 06/03/08 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 44.35 | 3,546.46 | | | | | |
| | 09/23/08 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 44.65 | 3,546.16 | | | | | |
| | 12/18/08 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 44.77 | 3,546.04 | | | | | |
| | 03/16/09 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | NA | NA | 0.00 | 44.92 | 3,545.89 | | | | | |
| | 06/23/09 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 45.08 | 3,545.73 | | | | | |
| | 09/08/09 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 45.24 | 3,545.57 | | | | | |
| | 12/17/09 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 45.44 | 3,545.37 | | | | | |
| | 03/09/10 | <1.0 | <1.0 | <1.0 | <1.5 | <1.0 | NA | NA | 0.00 | 45.66 | 3,545.15 | | | | | |
| | 06/16/10 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 45.80 | 3,545.01 | | | | | |
| | 09/01/10 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 45.80 | 3,545.01 | | | | | |
| | 12/06/10 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.00 | 3,544.81 | | | | | |
| | 03/18/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.14 | 3,544.67 | | | | | |
| | 06/23/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.38 | 3,544.43 | | | | | |
| | 10/07/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.72 | 3,544.09 | | | | | |
| | 12/08/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.87 | 3,543.94 | | | | | |
| | 08/07/12 | <5.0 | <5.0 | <5.0 | <15 | <15 | NA | NA | 0.00 | 47.43 | 3,543.38 | 30.29 | 1.875 | 0.72 | 5.80 | 109.3 |
| | 12/20/12 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 47.87 | 3,542.94 | 17.39 | 1.108 | 1.28 | 6.87 | -269.0 |
| duplicate | 12/20/12 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 47.87 | 3,542.94 | 17.39 | 1.108 | 1.28 | 6.87 | -269.0 |
| | 06/25/13 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 48.28 | 3,542.53 | 20.80 | 1.453 | 1.98 | 6.60 | 204.9 |
| | 12/11/13 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 48.73 | 3,542.08 | 19.80 | 1.540 | 4.40 | 6.76 | 152.0 |
| duplicate | 12/11/13 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 48.73 | 3,542.08 | 19.80 | 1.540 | 4.40 | 6.76 | 152.0 |
| | 06/24/14 | <1.0 | <2.0 | <1.0 | 1.61 | | NA | NA | 0.00 | 49.20 | 3,541.61 | 22.28 | 1.242 | 2.94 | 6.78 | 0.2 |
| | 12/11/14 | <1.0 | <2.0 | <1.0 | <1.0 | <0.10 | 0.135 | 0.00 | 49.41 | 3,541.40 | 17.74 | 1.196 | 2.51 | 6.66 | 69.0 | |
| | 06/11/15 | <1.0 | <2.0 | <1.0 | <1.0 | <0.10 | <0.10 | 0.00 | 49.78 | 3,541.03 | 24.41 | 1.240 | 1.10 | 6.63 | 27.7 | |
| | 12/16/15 | <1.0 | <2.0 | <1.0 | <1.0 | <0.10 | <0.10 | <0.102 | 0.00 | 49.96 | 3,540.85 | 16.75 | 1.229 | 2.22 | 6.86 | 126.0 |
| | 06/09/16 | <1.0 | <2.0 | <1.0 | <1.0 | <0.06 | <0.08 | 0.00 | 50.33 | 3,540.48 | 25.68 | 1.227 | 2.17 | 7.79 | 36.8 | |
| | 12/14/16 | <1.0 | <2.0 | <1.0 | <1.0 | <0.06 | 0.262 | 0.00 | 50.38 | 3,540.43 | 19.92 | 1.767 | 2.16 | 7.61 | 46.7 | |
| | 06/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.358 | 0.00 | 50.68 | 3,540.13 | 23.66 | 1.109 | 3.80 | 6.93 | 64.5 | |
| | 09/19/17 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.122 | 0.00 | 50.43 | 3,540.38 | 19.70 | 1.213 | 1.87 | 6.66 | 137.8 | |
| | 12/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | <0.073 | 0.668 | 0.00 | 50.91 | 3,539.90 | 17.60 | 1.102 | 1.62 | 6.79 | 76.5 | |
| | 03/14/18 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.184 | 0.00 | 51.03 | 3,539.78 | 20.30 | 1.206 | 1.97 | 7.01 | 89.3 | |
| | 06/05/18 | <1.0 | <2.0 | <1.0 | <2.0 | <0.100 | 0.221 | 0.00 | 51.24 | 3,539.57 | 24.89 | 1.369 | 2.69 | 6.92 | 111.2 | |
| | 09/24/18 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.220 | 0.00 | 51.43 | 3,539.38 | 22.96 | 1.308 | 2.07 | 7.18 | 102.3 | |
| | 12/12/18 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.224 | 0.00 | 51.55 | 3,539.26 | 20.13 | 1.198 | 1.85 | 6.88 | 91.2 | |
| | 03/12/19 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.164 | 0.00 | 51.62 | 3,539.19 | 20.65 | 1.306 | 1.98 | 7.12 | 110.0 | |
| | 09/20/19 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.225 | 0.00 | 51.88 | 3,538.93 | 21.87 | 1.398 | 2.11 | 7.44 | 88.6 | |
| | 12/04/19 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.203 | 0.00 | 51.98 | 3,538.83 | 19.92 | 1.265 | 1.89 | 7.59 | 101.6 | |
| | 03/12/20 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.190 | 0.00 | 52.10 | 3,538.71 | 20.86 | 1.065 | 2.02 | 7.02 | 78.7 | |
| | 06/16/20 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.151 | 0.00 | 52.20 | 3,538.61 | 23.88 | 1.309 | 2.88 | 7.33 | 99.2 | |
| | 09/16/20 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | 0.222 | 0.00 | 52.39 | 3,538.42 | 22.64 | 1.562 | 1.76 | 7.24 | 120.6 | |
| | 12/02/20 | <1.0 | <2.0 | <1.0 | <2.0 | <0.06 | NA | 0.00 | 52.58 | 3,538.23 | 20.03 | 1.112 | 1.85 | 7.12 | 110.6 | |
| | 03/24/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 06/08/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 09/22/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |
| | 12/01/21 | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | 0.00 | dry | dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry | NS-Dry |

Appendix B Summary of Historical Groundwater Analytical Results and Field Parameters

HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Monitor Well ID/ MP Elevation | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | Total BTEX ($\mu\text{g/L}$) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | Product Thickness (feet) | Depth to Water (ft-bmp) | Groundwater Elevation (ft-msl) | Temperature (deg-C) | Conductivity (mS/cm) | DO (mg/L) | pH | ORP (mV) |
|-------------------------------|-------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------|----------------|--------------------------|-------------------------|--------------------------------|---------------------|----------------------|-----------|------|----------|
| NMWQCC Groundwater Standard | | 5 | 1000 | 700 | 620 | -- | NE | NE | | | | | | | | |
| MW-4 | 06/16/10 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 45.82 | 3,545.03 | | | | | |
| 3590.85 | 09/01/10 | 3.3 | <1.0 | <1.0 | <2.0 | 3.3 | NA | NA | 0.00 | 45.81 | 3,545.04 | | | | | |
| | 12/06/10 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.01 | 3,544.84 | | | | | |
| | 03/18/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.16 | 3,544.69 | | | | | |
| | 06/23/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.40 | 3,544.45 | | | | | |
| | 10/07/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.74 | 3,544.11 | | | | | |
| | 12/08/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 46.88 | 3,543.97 | | | | | |
| | 08/07/12 | <5.0 | <5.0 | <5.0 | <15 | <15 | NA | NA | 0.00 | 47.44 | 3,543.41 | 28.73 | 1,457 | 0.12 | 6.45 | 1.3 |
| | 12/20/12 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 47.89 | 3,542.96 | 18.18 | 1,149 | 0.61 | 6.83 | -238.0 |
| | 06/25/13 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 48.27 | 3,542.58 | 21.30 | 1,306 | 0.14 | 6.70 | 129.8 |
| | 12/11/13 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 48.72 | 3,542.13 | 20.75 | 1.32 | 1.26 | 7.20 | -2.0 |
| | 06/24/14 | 1.07 | <2.0 | <1.0 | <1.0 | | NA | NA | 0.00 | 49.18 | 3,541.67 | 22.22 | 1,168 | 1.07 | 6.75 | -13.3 |
| | 12/11/14 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.10 | 1.72 | 0.00 | 49.45 | 3,541.40 | 18.59 | 8,387 | 0.15 | 6.35 | 64.5 |
| | 06/11/15 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.10 | 2.81 | 0.00 | 49.80 | 3,541.05 | 28.13 | 8,394 | 3.14 | 6.61 | 44.6 |
| duplicate | 06/11/15 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.10 | 2.51 | 0.00 | 49.80 | 3,541.05 | 28.13 | 8,394 | 3.14 | 6.61 | 44.6 |
| | 12/16/15 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.10 | 2.66 | 0.00 | 49.95 | 3,540.90 | 18.80 | 6,176 | 0.60 | 6.91 | 86.2 |
| | 06/09/16 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.06 | 3.22 | 0.00 | 50.32 | 3,540.53 | 27.40 | 2,949 | 2.59 | 6.99 | 1.6 |
| | 12/14/16 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.06 | 2.37 | 0.00 | 50.38 | 3,540.47 | 19.14 | 4,317 | 2.29 | 7.74 | 53.1 |
| duplicate | 12/14/16 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.06 | 2.02 | 0.00 | 50.38 | 3,540.47 | 19.14 | 4,317 | 2.29 | 7.74 | 53.1 |
| | 06/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 1.50 | 0.00 | 50.68 | 3,540.17 | 22.60 | 1,68 | 0.42 | 6.98 | 71.9 |
| | 09/19/17 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 1.73 | 0.00 | 50.68 | 3,540.17 | 21.70 | 2,014 | 1.94 | 6.91 | 23.5 |
| | 12/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 1.79 | 0.00 | 50.91 | 3,539.94 | 18.10 | 1,751 | 0.89 | 7.16 | 11.3 |
| | 03/14/18 | 3.31 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.357 | 0.00 | 51.02 | 3,539.83 | 20.60 | 2,342 | 1.23 | 6.77 | 55.4 |
| | 06/05/18 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.092 | 0.329 | 0.00 | 51.24 | 3,539.61 | 24.50 | 2,867 | 2.65 | 6.82 | 68.6 |
| | 09/24/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.200 | 0.00 | 51.41 | 3,539.44 | 23.65 | 2,436 | 1.86 | 7.04 | 75.6 |
| | 12/12/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.098 | 0.00 | 51.44 | 3,539.41 | 19.26 | 1,982 | 1.21 | 6.94 | 29.2 |
| | 03/12/19 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.061 | 0.101 | 0.00 | 51.59 | 3,539.26 | 20.88 | 2,467 | 1.77 | 7.06 | 56.0 |
| | 09/20/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.183 | 0.00 | 51.92 | 3,538.93 | 23.67 | 2,223 | 2.43 | 6.98 | 42.3 |
| | 12/04/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.150 | 0.00 | 51.95 | 3,538.90 | 20.11 | 2,116 | 1.63 | 7.11 | 32.0 |
| | 03/12/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.146 | 0.00 | 52.06 | 3,538.79 | 21.60 | 2,228 | 1.92 | 6.89 | 43.6 |
| | 06/16/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.147 | 0.00 | 52.17 | 3,538.68 | 23.66 | 2,549 | 2.11 | 7.21 | 65.6 |
| | 09/16/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.149 | 0.00 | 52.32 | 3,538.53 | 22.96 | 2,011 | 2.06 | 7.01 | 43.8 |
| | 12/02/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.151 | 0.00 | 52.49 | 3,538.36 | 21.04 | 2,198 | 1.88 | 6.92 | 65.4 |
| | 03/24/21 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.151 | 0.00 | 52.66 | 3,538.19 | 20.35 | 3,445 | 2.33 | 7.16 | 76.4 |
| | 06/08/21 | NS | NS | NS | NS | | NS | NS | 0.00 | 52.81 | 3,538.04 | NS | NS | NS | NS | NS |
| | 09/22/21 | NS | NS | NS | NS | | NS | NS | 0.00 | 52.94 | 3,537.91 | NS | NS | NS | NS | NS |
| | 12/01/21 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.179 | 0.00 | 53.27 | 3,537.58 | 19.88 | 3,226 | 2.10 | 7.16 | 88.4 |

Appendix B Summary of Historical Groundwater Analytical Results and Field Parameters

HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Monitor Well ID/ MP Elevation | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | Total BTEX ($\mu\text{g/L}$) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | Product Thickness (feet) | Depth to Water (ft-bmp) | Groundwater Elevation (ft-msl) | Temperature (deg-C) | Conductivity (mS/cm) | DO (mg/L) | pH | ORP (mV) |
|-------------------------------|-------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------|----------------|--------------------------|-------------------------|--------------------------------|---------------------|----------------------|-----------|------|----------|
| NMWQCC Groundwater Standard | | 5 | 1000 | 700 | 620 | -- | NE | NE | | | | | | | | |
| MW-5 | 03/18/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 47.61 | 3,545.14 | | | | | |
| 3592.75 | 06/23/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 47.83 | 3,544.92 | | | | | |
| | 10/07/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 48.17 | 3,544.58 | | | | | |
| | 12/08/11 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | NA | NA | 0.00 | 48.31 | 3,544.44 | | | | | |
| | 08/07/12 | <5.0 | <5.0 | <5.0 | <15 | <15 | NA | NA | 0.00 | 48.83 | 3,543.92 | 27.30 | 0.775 | 4.84 | 6.01 | 115.9 |
| | 12/20/12 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 49.26 | 3,543.49 | 17.49 | 0.633 | 4.70 | 7.04 | -187.0 |
| | 06/25/13 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 49.64 | 3,543.11 | 22.20 | 0.848 | 4.60 | 6.63 | 181.1 |
| | 12/11/13 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | NA | NA | 0.00 | 50.09 | 3,542.66 | 19.35 | 0.801 | 4.79 | 7.37 | 86.0 |
| | 06/25/14 | <1.0 | <2.0 | <1.0 | 1.13 | | NA | NA | 0.00 | 50.53 | 3,542.22 | 20.39 | 0.782 | 3.54 | 6.91 | 39.2 |
| | 12/11/14 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.10 | <0.102 | 0.00 | 50.76 | 3,541.99 | 18.61 | 0.888 | 6.35 | 6.11 | 103.6 |
| | 06/11/15 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.10 | <0.10 | 0.00 | 51.12 | 3,541.63 | 29.58 | 0.882 | 6.63 | 6.72 | 40.4 |
| | 12/16/15 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.10 | 0.115 | 0.00 | 51.33 | 3,541.42 | 17.09 | 0.910 | 5.79 | 7.16 | 129.1 |
| | 06/09/16 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.06 | <0.08 | 0.00 | 51.68 | 3,541.07 | 26.69 | 1.099 | 6.03 | 6.55 | 59.9 |
| | 12/14/16 | <1.0 | <2.0 | <1.0 | <1.0 | | <0.06 | 0.194 | 0.00 | 51.76 | 3,540.99 | 19.03 | 1.361 | 5.93 | 7.72 | 79.5 |
| | 06/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.162 | 0.00 | 52.08 | 3,540.67 | 19.10 | 0.905 | 5.75 | 6.78 | 127.2 |
| | 09/19/17 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.132 | 0.00 | 52.07 | 3,540.68 | 20.70 | 1.001 | 4.04 | 6.81 | 59.8 |
| | 12/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.425 | 0.00 | 52.30 | 3,540.45 | 17.90 | 0.768 | 3.92 | 7.08 | 33.2 |
| duplicate | 12/06/17 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.467 | 0.00 | 52.30 | 3,540.45 | 17.90 | 0.768 | 3.92 | 7.08 | 33.2 |
| | 03/14/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.0756 | 0.00 | 52.38 | 3,540.37 | 20.10 | 0.901 | 4.11 | 6.76 | 65.4 |
| | 06/05/18 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.081 | 0.155 | 0.00 | 52.58 | 3,540.17 | 25.60 | 1.162 | 4.76 | 6.96 | 123.0 |
| duplicate | 06/05/18 | <1.0 | <2.0 | <1.0 | <2.0 | | 0.097 | 0.137 | 0.00 | 52.58 | 3,540.17 | 25.60 | 1.162 | 4.76 | 6.96 | 123.0 |
| | 09/24/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.111 | 0.00 | 52.50 | 3,540.25 | 24.66 | 0.913 | 3.88 | 7.24 | 102.2 |
| | 09/24/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.136 | 0.00 | 52.50 | 3,540.25 | 24.66 | 0.913 | 3.88 | 7.24 | 102.2 |
| | 12/12/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.157 | 0.00 | 52.54 | 3,540.21 | 18.87 | 1.012 | 4.23 | 7.11 | 55.6 |
| duplicate | 12/12/18 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.148 | 0.00 | 52.54 | 3,540.21 | 18.87 | 1.012 | 4.23 | 7.11 | 55.6 |
| | 03/12/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.178 | 0.00 | 52.97 | 3,539.78 | 20.18 | 1.123 | 3.65 | 7.02 | 88.0 |
| duplicate | 03/12/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.157 | 0.00 | 52.97 | 3,539.78 | 20.18 | 1.123 | 3.65 | 7.02 | 88.0 |
| | 09/20/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.223 | 0.00 | 53.22 | 3,539.53 | 23.98 | 0.889 | 4.11 | 7.16 | 112.0 |
| duplicate | 09/20/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.230 | 0.00 | 53.22 | 3,539.53 | 23.98 | 0.889 | 4.11 | 7.16 | 112.0 |
| | 12/04/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.171 | 0.00 | 53.34 | 3,539.41 | 20.18 | 0.987 | 3.97 | 7.02 | 99.6 |
| duplicate | 12/04/19 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.168 | 0.00 | 53.34 | 3,539.41 | 20.18 | 0.987 | 3.97 | 7.02 | 99.6 |
| | 03/12/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.235 | 0.00 | 53.40 | 3,539.35 | 21.20 | 1.115 | 4.01 | 7.11 | 102.0 |
| duplicate | 03/12/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.190 | 0.00 | 53.40 | 3,539.35 | 21.20 | 1.115 | 4.01 | 7.11 | 102.0 |
| | 06/16/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.148 | 0.00 | 53.58 | 3,539.17 | 23.40 | 1.233 | 4.26 | 6.92 | 123.0 |
| duplicate | 06/16/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.166 | 0.00 | 53.58 | 3,539.17 | 23.40 | 1.233 | 4.26 | 6.92 | 123.0 |
| | 09/16/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.156 | 0.00 | 53.69 | 3,539.06 | 21.96 | 1.002 | 3.84 | 7.27 | 89.6 |
| duplicate | 09/16/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.173 | 0.00 | 53.69 | 3,539.06 | 21.96 | 1.002 | 3.84 | 7.27 | 89.6 |
| | 12/02/20 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.178 | 0.00 | 53.91 | 3,538.84 | 20.86 | 1.246 | 2.96 | 7.08 | 112.0 |
| 03/24/21 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.281 | 0.00 | 54.05 | 3,538.70 | 21.22 | 1.388 | 3.03 | 7.03 | 98.7 | |
| duplicate | 03/24/21 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.162 | 0.00 | 54.05 | 3,538.70 | 21.22 | 1.388 | 3.03 | 7.03 | 98.7 |
| | 06/08/21 | NS | NS | NS | NS | | NS | NS | 0.00 | 54.25 | 3,538.50 | NS | NS | NS | NS | NS |
| | 09/22/21 | NS | NS | NS | NS | | NS | NS | 0.00 | 54.29 | 3,538.46 | NS | NS | NS | NS | NS |
| | 12/01/21 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.147 | 0.00 | 54.51 | 3,538.24 | 20.86 | 0.998 | 3.24 | 7.18 | 119.0 |
| duplicate | 12/01/21 | <1.0 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.147 | 0.00 | 54.51 | 3,538.24 | 20.86 | 0.998 | 3.24 | 7.18 | 119.0 |

Appendix B Summary of Historical Groundwater Analytical Results and Field Parameters

HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Monitor Well ID/ MP Elevation | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | Total BTEX ($\mu\text{g/L}$) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | Product Thickness (feet) | Depth to Water (ft-bmp) | Groundwater Elevation (ft-msl) | Temperature (deg-C) | Conductivity (mS/cm) | DO (mg/L) | pH | ORP (mV) |
|-------------------------------|-------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------|----------------|--------------------------|-------------------------|--------------------------------|---------------------|----------------------|-----------|------|----------|
| NMWQCC Groundwater Standard | | 5 | 1000 | 700 | 620 | -- | NE | NE | | | | | | | | |
| HTRW-1 | 06/25/13 | NSP | NSP | NSP | NSP | NSP | NA | NA | 0.00 | 45.28 | 3,542.87 | | | | | |
| 3588.14 | 12/11/13 | NSP | NSP | NSP | NSP | NSP | NA | NA | 0.01 | 45.79 | 3,542.36 | | | | | |
| | 6/24/14 | 910 | 48.7 | 89.1 | 70.0 | | NA | NA | 0.01 | 46.19 | 3,541.95 | 21.90 | 1.533 | 1.37 | 6.77 | -108.5 |
| duplicate | 6/24/14 | 922 | 49.0 | 88.8 | 69.2 | | NA | NA | 0.00 | 46.19 | 3,541.95 | 21.90 | 1.533 | 1.37 | 6.77 | -108.5 |
| | 12/11/14 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.05 | 45.51 | 3,542.67 | NSP | NSP | NSP | NSP | NSP |
| | 06/11/15 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.80 | 47.61 | 3,541.11 | NSP | NSP | NSP | NSP | NSP |
| | 12/16/15 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.02 | 46.95 | 3,541.20 | NSP | NSP | NSP | NSP | NSP |
| | 06/09/16 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.00 | 46.34 | 3,541.80 | NM | NM | NM | NM | NM |
| | 12/14/16 | 1.97 | <0.6 | <0.3 | 0.943 | | <0.06 | 0.432 | 0.00 | 47.44 | 3,540.70 | 19.34 | 1.72 | 2.34 | 7.58 | 60.8 |
| | 06/06/17 | 774 | 21.9 | 1.90 | 57.6 | | 1.85 | 0.549 | 0.00 | 47.71 | 3,540.43 | 21.12 | 1.014 | 1.71 | 6.91 | 71.7 |
| duplicate | 06/06/17 | 694 | 13.8 | 1.37 | 47.2 | | 1.43 | 1.49 | 0.00 | 47.71 | 3,540.43 | 21.12 | 1.014 | 1.71 | 6.91 | 71.7 |
| | 09/19/17 | 1620 | 76.1 | 17.1 | 82.6 | | 2.88 | 1.23 | 0.00 | 47.72 | 3,540.42 | 21.7 | 0.693 | 1.7 | 6.93 | -45.4 |
| | 12/06/17 | NS | NS | NS | NS | NS | NS | NS | 0.00 | | | 18.9 | 1.001 | 2.01 | 6.92 | 33.2 |
| | 03/14/18 | 102 | <2.0 | <1.0 | 8.16 | | 0.360 | <0.0754 | 0.00 | 48.03 | 3,540.10 | 20.6 | 0.892 | 1.92 | 7.23 | -11.5 |
| | 06/05/18 | 163 | 40.0 | 2.03 | 34.2 | | 1.40 | 2.17 | 0.00 | 48.22 | 3,540.06 | 22.1 | 0.989 | 1.87 | 6.89 | 22.3 |
| | 09/24/18 | 11.4 | 2.78 | <3.0 | 0.564 | | 0.109 | 0.406 | 0.00 | 48.45 | 3,540.11 | 21.6 | 1.106 | 1.98 | 6.92 | 11.6 |
| | 12/12/18 | 377 | 20.5 | 1.07 | 20.7 | | 1.15 | 0.240 | 0.00 | 48.99 | 3,539.15 | 19.03 | 0.979 | 2.12 | 7.01 | 22.9 |
| | 03/12/19 | 28.8 | 2.6 | <3.0 | 3.48 | | 0.139 | 0.154 | 0.00 | 48.70 | 3,539.44 | 20.8 | 0.979 | 2.04 | 7.18 | 10.6 |
| | 09/20/19 | 42.4 | 3.07 | 0.413 | 3.84 | | 0.318 | 0.263 | 0.00 | 48.97 | 3,539.17 | 21.6 | 0.889 | 1.96 | 6.98 | -22 |
| | 12/04/19 | 57.5 | 5.82 | 0.559 | 8.27 | | 0.118 | <0.148 | 0.00 | 48.97 | 3,539.17 | 19.2 | 1.021 | 1.88 | 7.01 | 9.66 |
| | 03/12/20 | 2.28 | <2.0 | <1.0 | <2.0 | | <0.06 | 0.222 | 0.00 | 49.09 | 3,539.05 | 20.6 | 0.926 | 1.92 | 7.26 | 60.5 |
| | 06/16/20 | 70.6 | 11.0 | 0.960 | 4.46 | | 0.116 | 0.288 | 0.00 | 49.20 | 3,538.94 | 23.4 | 1.115 | 2.01 | 7.33 | 44.6 |
| | 09/16/20 | 135 | 7.3 | 0.382 | 9.86 | | 0.308 | <0.149 | 0.00 | 49.38 | 3,538.76 | 22.7 | 1.226 | 1.94 | 7.45 | 10.8 |
| | 12/02/20 | 626 | 53.3 | 2.23 | 66.0 | | 1.79 | 0.256 | 0.00 | 49.56 | 3,538.58 | 21.2 | 1.101 | 1.87 | 7.33 | 35.6 |
| | 03/24/21 | 849 | 124 | 3.53 | 56.8 | | 2.36 | 0.204 | 0.00 | 49.72 | 3,538.42 | 20.8 | 0.966 | 2.11 | 7.26 | 54.8 |
| | 06/08/21 | 765 | 86.3 | 2.20 | 46.1 | | 1.70 | <0.147 | 0.00 | 49.90 | 3,538.24 | 22.3 | 1.074 | 2.02 | 7.11 | 44.7 |
| | 09/22/21 | 1.20 | <2.0 | <1.0 | <2.0 | | <0.06 | <0.551 | 0.00 | 50.00 | 3,538.14 | 23.1 | 1.226 | 1.92 | 7.2 | 60.6 |
| | 12/01/21 | 2.49 | 10.4 | <1.0 | <2.0 | | <0.06 | <0.152 | 0.00 | 50.22 | 3,537.92 | 22.8 | 1.119 | 2.33 | 7.19 | 55.8 |
| HTRW-2 | 6/25/13 | 62.3 | 21.4 | 4.4 | 13.0 | 101.1 | NA | NA | 0.00 | 44.60 | 3,542.91 | 21.70 | 1.233 | 2.80 | 6.81 | 180.2 |
| 3587.51 | 12/11/13 | 530 | 35.9 | 12.4 | 33.4 | 611.7 | NA | NA | 0.00 | 45.05 | 3,542.46 | 20.08 | 1.43 | 1.07 | 7.34 | -2.00 |
| | 6/24/14 | 748 | 47.6 | 59.2 | 84.0 | | NA | NA | 0.00 | 45.52 | 3,541.99 | 19.88 | 1.536 | 0.68 | 6.86 | -128.9 |
| | 12/11/14 | 722 | 135 | 36.4 | 129 | | 2.0 | 0.253 | 0.00 | 45.79 | 3,541.72 | 17.13 | 1.444 | 0.41 | 6.67 | -89.1 |
| | 06/11/15 | 875 | 28.7 | 35.3 | 29.3 | | 1.24 | 0.354 | 0.00 | 46.05 | 3,541.46 | 21.95 | 1.937 | 2.82 | 6.06 | -43.3 |
| | 12/16/15 | 503 | <20.0 | 18.9 | <10.0 | | 1.01 | 0.144 | 0.00 | 46.25 | 3,541.26 | 17.01 | 1.523 | 0.69 | 7.07 | -69.4 |
| | 06/09/16 | 863 | 6.35 | 60.6 | 6.87 | | 2.03 | 1.05 | 0.00 | 46.66 | 3,540.85 | NM | NM | NM | NM | NM |
| | 12/14/16 | 322 | 7.32 | 33.3 | 5.66 | | 0.128 | 0.461 | 0.00 | 46.74 | 3,540.77 | 18.65 | 1.732 | 1.39 | 7.73 | 10.1 |
| | 06/06/17 | 342 | 4.05 | 2.81 | 17.9 | | 0.901 | 0.332 | 0.00 | 47.03 | 3,540.48 | 18.81 | 1.035 | 4.62 | 6.75 | 107.4 |
| | 09/19/17 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 47.08 | 3,540.43 | NS | NS | NS | NS | NS |
| | 12/06/17 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 47.25 | 3,540.26 | NS | NS | NS | NS | NS |
| | 03/14/18 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.42 | 3,539.09 | NS | NS | NS | NS | NS |
| | 06/05/18 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 47.56 | 3,539.95 | NS | NS | NS | NS | NS |
| | 09/24/18 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 47.77 | 3,539.74 | NS | NS | NS | NS | NS |
| | 12/12/18 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 47.79 | 3,539.72 | NS | NS | NS | NS | NS |
| | 03/12/19 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.01 | 3,539.50 | NS | NS | NS | NS | NS |
| | 09/20/19 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.28 | 3,539.23 | NS | NS | NS | NS | NS |
| | 12/04/19 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.35 | 3,539.16 | NS | NS | NS | NS | NS |
| | 03/12/20 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.47 | 3,539.04 | NS | NS | NS | NS | NS |
| | 06/16/20 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.59 | 3,538.92 | NS | NS | NS | NS | NS |
| | 09/16/20 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.68 | 3,538.83 | NS | NS | NS | NS | NS |
| | 12/02/20 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.89 | 3,538.62 | NS | NS | NS | NS | NS |
| | 03/24/21 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.10 | 3,538.41 | NS | NS | NS | NS | NS |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.23 | 3,538.28 | NS | NS | NS | NS | NS |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.34 | 3,538.17 | NS | NS | NS | NS | NS |
| | 12/01/21 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.56 | 3,537.95 | NS | NS | NS | NS | NS |

Appendix B Summary of Historical Groundwater Analytical Results and Field Parameters

HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Monitor Well ID/ MP Elevation | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | Total BTEX ($\mu\text{g/L}$) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | Product Thickness (feet) | Depth to Water (ft-bmp) | Groundwater Elevation (ft-msl) | Temperature (deg-C) | Conductivity (mS/cm) | DO (mg/L) | pH | ORP (mV) |
|-------------------------------|-------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------|----------------|--------------------------|-------------------------|--------------------------------|---------------------|----------------------|-----------|------|----------|
| NMWQCC Groundwater Standard | | 5 | 1000 | 700 | 620 | -- | NE | NE | | | | | | | | |
| HTRW-3 3588.75 | 6/25/13 | NSP | NSP | NSP | NSP | NSP | NA | NA | 0.01 | 45.88 | 3,542.88 | | | | | |
| | 12/11/13 | NSP | NSP | NSP | NSP | NSP | NA | NA | 0.01 | 46.33 | 3,542.43 | | | | | |
| | 6/24/14 | 3090 | 1220 | 450 | 520 | | NA | NA | 0.00 | 46.79 | 3,541.96 | 21.17 | 1.56 | 0.75 | 6.70 | -160.1 |
| | 12/11/14 | 3760 | 1750 | 466 | 632 | | 12.2 | 1.31 | 0.00 | 47.03 | 3,541.72 | 17.26 | 1.684 | 0.33 | 6.59 | -209.1 |
| | 06/11/15 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.26 | 47.61 | 3,541.33 | NSP | NSP | NSP | NSP | NSP |
| | 12/16/15 | NSP | NSP | NSP | NSP | | NSP | NSP | 1.70 | 49.00 | 3,540.99 | NSP | NSP | NSP | NSP | NSP |
| | 06/09/16 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.03 | 47.84 | 3,540.93 | NSP | NSP | NSP | NSP | NSP |
| | 12/14/16 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.51 | 48.48 | 3,540.64 | NSP | NSP | NSP | NSP | NSP |
| | 06/06/17 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.04 | 48.35 | 3,540.43 | NSP | NSP | NSP | NSP | NSP |
| | 09/19/17 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.05 | 48.36 | 3,540.43 | NSP | NSP | NSP | NSP | NSP |
| | 12/06/17 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.75 | 49.35 | 3,539.95 | NSP | NSP | NSP | NSP | NSP |
| | 03/14/18 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.00 | 48.68 | 3,540.07 | NSP | NSP | NSP | NSP | NSP |
| | 06/05/18 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.00 | 48.88 | 3,539.87 | NSP | NSP | NSP | NSP | NSP |
| | 09/24/18 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.10 | 49.18 | 3,539.64 | NSP | NSP | NSP | NSP | NSP |
| | 12/12/18 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.05 | 48.13 | 3,540.66 | NSP | NSP | NSP | NSP | NSP |
| | 03/12/19 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.06 | 49.35 | 3,539.44 | NSP | NSP | NSP | NSP | NSP |
| | 09/20/19 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.00 | 49.60 | 3,539.15 | NSP | NSP | NSP | NSP | NSP |
| | 12/04/19 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.00 | 49.75 | 3,539.00 | NSP | NSP | NSP | NSP | NSP |
| | 03/12/20 | NS | NS | NS | NS | | NS | NS | 0.00 | 49.89 | 3,538.86 | NS | NS | NS | NS | NS |
| | 06/16/20 | NSP | NSP | NSP | NSP | | NSP | NSP | 0.02 | 49.92 | 3,538.84 | NSP | NSP | NSP | NSP | NSP |
| | 09/16/20 | NS | NS | NS | NS | | NS | NS | 0.00 | 50.08 | 3,538.67 | NS | NS | NS | NS | NS |
| | 12/02/20 | NS | NS | NS | NS | | NS | NS | 0.00 | 50.24 | 3,538.51 | NS | NS | NS | NS | NS |
| | 03/24/21 | NS | NS | NS | NS | | NS | NS | 0.00 | 50.32 | 3,538.43 | NS | NS | NS | NS | NS |
| | 06/08/21 | NS | NS | NS | NS | | NS | NS | 0.00 | 50.46 | 3,538.29 | NS | NS | NS | NS | NS |
| | 09/22/21 | NS | NS | NS | NS | | NS | NS | 0.00 | 50.55 | 3,538.20 | NS | NS | NS | NS | NS |
| | 12/01/21 | NS | NS | NS | NS | | NS | NS | 0.00 | 50.81 | 3,537.94 | NS | NS | NS | NS | NS |

Appendix B Summary of Historical Groundwater Analytical Results and Field Parameters

HollyFrontier - Hobbs Tank 5201 - Lea County, New Mexico

| Monitor Well ID/ MP Elevation | Sample Date | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethyl-benzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | Total BTEX ($\mu\text{g/L}$) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | Product Thickness (feet) | Depth to Water (ft-bmp) | Groundwater Elevation (ft-msl) | Temperature (deg-C) | Conductivity (mS/cm) | DO (mg/L) | pH | ORP (mV) |
|-------------------------------|-------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------|----------------|--------------------------|-------------------------|--------------------------------|---------------------|----------------------|-----------|------|----------|
| NMWQCC Groundwater Standard | | 5 | 1000 | 700 | 620 | -- | NE | NE | | | | | | | | |
| HTRW-4 | 6/25/13 | 87.4 | 49.4 | 32.5 | 52.8 | 222.1 | NA | NA | 0.00 | 45.68 | 3,542.89 | 22.30 | 0.96 | 2.04 | 6.87 | 190.9 |
| 3588.57 | 12/11/13 | 951 | 157 | 88.1 | 219 | 1414.7 | NA | NA | 0.00 | 46.13 | 3,542.44 | 20.41 | 1.44 | 0.95 | 7.5 | -144 |
| | 6/24/14 | 1720 | 698 | 253 | 436 | | NA | NA | 0.00 | 46.59 | 3,541.98 | 21.9 | 1.751 | 1.16 | 7.01 | -96.1 |
| | 12/11/14 | 1890 | 288 | 126 | 277 | | 4.03 | 0.643 | 0.00 | 46.85 | 3,541.72 | 16.54 | 1.581 | 0.15 | 6.81 | -190.5 |
| | 06/11/15 | 1490 | 29.2 | 111 | 29.9 | | 2.16 | 0.365 | 0.00 | 47.11 | 3,541.46 | 23.87 | 1.486 | 0.68 | 6.92 | -183.2 |
| | 12/16/15 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 47.32 | 3,541.25 | NS | NS | NS | NS | NS |
| | 06/09/16 | 834 | 11.7 | 35.9 | 17.8 | | 1.60 | 1.10 | 0.00 | 47.70 | 3,540.87 | 22.27 | 1.559 | 1.93 | 6.78 | -117 |
| | 12/14/16 | 3800 | 29.6 | 16.2 | 46.1 | | 1.31 | 0.951 | 0.00 | 47.79 | 3,540.78 | 19.01 | 1.937 | 1.48 | 7.96 | -74.01 |
| | 06/06/17 | 564 | 6.20 | 3.62 | 57.8 | | 1.97 | 0.736 | 0.00 | 48.09 | 3,540.48 | 18.92 | 1.092 | 1.77 | 6.97 | -50.9 |
| | 09/19/17 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.19 | 3,540.38 | NS | NS | NS | NS | NS |
| | 12/06/17 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.30 | 3,540.27 | NS | NS | NS | NS | NS |
| | 03/14/18 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.58 | 3,539.99 | NS | NS | NS | NS | NS |
| | 06/05/18 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.64 | 3,539.93 | NS | NS | NS | NS | NS |
| | 09/24/18 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.78 | 3,539.79 | NS | NS | NS | NS | NS |
| | 12/12/18 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 48.48 | 3,540.09 | NS | NS | NS | NS | NS |
| | 03/12/19 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.05 | 3,539.52 | NS | NS | NS | NS | NS |
| | 09/20/19 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.38 | 3,539.19 | NS | NS | NS | NS | NS |
| | 12/04/19 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.92 | 3,538.65 | NS | NS | NS | NS | NS |
| | 03/12/20 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.55 | 3,539.02 | NS | NS | NS | NS | NS |
| | 06/16/20 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.68 | 3,538.89 | NS | NS | NS | NS | NS |
| | 09/16/20 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 49.82 | 3,538.75 | NS | NS | NS | NS | NS |
| | 12/02/20 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 50.01 | 3,538.56 | NS | NS | NS | NS | NS |
| | 03/24/21 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 50.11 | 3,538.46 | NS | NS | NS | NS | NS |
| | 06/08/21 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 50.35 | 3,538.22 | NS | NS | NS | NS | NS |
| | 09/22/21 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 50.38 | 3,538.19 | NS | NS | NS | NS | NS |
| | 12/01/21 | NS | NS | NS | NS | NS | NS | NS | 0.00 | 50.66 | 3,537.91 | NS | NS | NS | NS | NS |

Notes:

BOLD = Exceeds New Mexico Water Quality Commission (NMWQC) Standard $\mu\text{g/L}$ = microgram per liter mg/L = micrograms per liter

< = Not detected above laboratory reporting limit

ft-bmp - feet-below measuring point

ft-msl - feet-mean sea level

deg-C - degrees-Celsius

mS/cm - millisiemens per centimeter

mV - millivolts

NSP - Not Sampled Product

MP - Measuring Point

NS - Not Sampled

NA - Not analyzed

NE - Not Established

BTEX = Benzene, Toluene, Ethylbenzene and Xylenes

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics

BTEX analyzed by Method 8260C

TPH-GRO analyzed by Method 8015V

TPH-DRO analyzed by Method 8015D

Appendix C Groundwater Laboratory Reports (on disk)



April 05, 2021

Brad Stephenson
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (720) 974-0935
FAX: (432) 686-0186

Order No.: 2103198

RE: Hobbs Tank

Dear Brad Stephenson:

DHL Analytical, Inc. received 5 sample(s) on 3/25/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten red ink signature of the name "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-26



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| Analytical Report 2103198 | 8 |
| AnalyticalQCSummaryReport 2103198 | 13 |

GHD Simplified Scope of Work (SSOW)

SSOW Re
11224355-

Project Name: Holly Energy - Tank 5201
GHD Project No./Phase/Task: 11224355-04-01
Project Location: Hobbs, CO

Phase/Study Title: Quarterly Groundwater Sampling
Event Description: Groundwater sampling

| Item | Sample Matrix | Analytical Parameters | Analytical Methods | Unit Prices | Applicable Surcharge Multiplier ⁽¹⁾ | Extended Prices | Estimated Sample Qty/Event | Field QC Samples | | | | | Total Sample Qty. | Billable Samples |
|------|---------------|-----------------------|--------------------|-------------|--|-----------------|----------------------------|------------------|---------|-----------|---------|-------|-------------------|------------------|
| | | | | | | | | MSD | Lab Dsp | Tripp Blk | Fid Dsp | Other | | |
| 1 | Water | BTEX | 8260 | \$ 100.00 | 1.00 | \$ 100.00 | 5 | | | 1 | | | 6 | 6.0 |
| 2 | Water | GRO | 8015 | \$ 55.00 | 1.00 | \$ 55.00 | 5 | | | 1 | | | 6 | 6.0 |
| 3 | Water | DRO | 8015 | \$ 95.00 | 1.00 | \$ 95.00 | 5 | | | | | | 5 | 5.0 |
| 4 | Water | RCRA 8 Metals | 6010/7470 | \$ 120.00 | 1.00 | \$ 120.00 | 5 | | | | | | 5 | 5.0 |
| 5 | Water | Chloride | 300.0 | \$ 30.00 | 1.00 | \$ 30.00 | 5 | | | | | | 5 | 5.0 |
| 6 | Water | TDS | SM2540 | \$ 30.00 | 1.00 | \$ 30.00 | 5 | | | | | | 5 | 5.0 |

(1) Explanation of Surcharges:

Estimated Event Subtotal:

Laboratory Surcharge(s):

Estimated Event Total Costs:

Lab Contracting Summary:

Governing Terms and Conditions

- Master Agreement Number: _____
- Exhibit "A" Terms and Conditions
- Client Contract

Party issuing the Purchase Order ("GHD")

GHD Company Name :
 GHD Company Code :
 GHD Invoice Routing Mailbox :
 GHD Invoice Recipient :

GHD Purchase Order Number:

Name of Client: Holly Energy Partners

Jeffrey Cloud

(authorized GHD signature)

Other Additional Insureds:

Governing Law: CO

Currency: USD

(authorized Vendor signature)

Address Invoice to:

Electronic Invoice to:

Typed name constitutes authori

ORIGIN ID:HOBA (303) 941-6156
GHD
14998 W 6TH AVE STE 800
GOLDEN, CO 80401
UNITED STATES US

SHIP DATE: 24MAR21
ACTWTG: 41.25 LB
CAD: 6994246/SSFE2121
DIMS: 23x14x13 IN

BILL THIRD PARTY

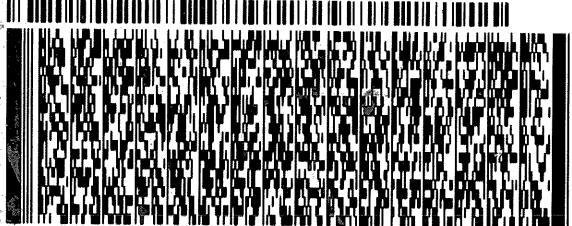
**TO DHL ANALYTICAL LABS
DHL ANALYTICAL LABS
2300 DOUBLE CREEK DR**

ROUND ROCK TX 78664

(512) 388-8222
INV:
POI

REF:

DEPT:



FedEx
Express

E
FOOT
TO
TO
TO
TO
TO
TO

Part # 156297-6354830P093 11/21

4 of 4
MPS# 0263 7851 6630 9618
Mstr# 7851 6630 9581

**THU - 25 MAR 10:30A
PRIORITY OVERNIGHT**

MSL# 78818830 9581

0201

A8 BSMIA

78664
X-US AUS



DHL Analytical, Inc.

Sample Receipt Checklist

Client Name GHD

Date Received: 3/25/2021

Work Order Number 2103198

Received by: EL

Checklist completed by:

Signature

3/25/2021

Date

Reviewed by

Initials

3/25/2021

Date

Carrier name: FedEx 1day

Shipping container/coolier in good condition?

Yes No Not Present

Custody seals intact on shipping container/coolier?

Yes No Not Present

Custody seals intact on sample bottles?

Yes No Not Present

Chain of custody present?

Yes No

Chain of custody signed when relinquished and received?

Yes No

Chain of custody agrees with sample labels?

Yes No

Samples in proper container/bottle?

Yes No

Sample containers intact?

Yes No

Sufficient sample volume for indicated test?

Yes No

All samples received within holding time?

Yes No

Container/Temp Blank temperature in compliance?

Yes No 4.6 °C

Water - VOA vials have zero headspace?

Yes No No VOA vials submitted

Water - pH<2 acceptable upon receipt?

Yes No NA LOT # 13171Adjusted? NO Checked by R.A.

Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt?

Yes No NA LOT #

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

_____Corrective Action: _____

DHL Analytical, Inc.**Date:** 05-Apr-21

CLIENT: GHD
Project: Hobbs Tank
Lab Order: 2103198

CASE NARRATIVE

TDS Holding time due to laboratory error.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, EPA and Standard methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Anions Analysis, the recovery of Chloride for the Matrix Spike and Matrix Spike Duplicate (2103155-02 MS/MSD) was below the method control limits. This is flagged accordingly in the QC Summary Report. This anion was within method control limits in the associated LCS. No further corrective action was taken.

For TDS Analysis, Samples MW-4 and HTRW-1 were analyzed slightly outside of the method specified holdtime, due to an inadvertent laboratory error. These results are "C" flagged in the Analytical Data Report. No further corrective action was taken.

DHL Analytical, Inc.**Date:** 05-Apr-21

CLIENT: GHD **Client Sample ID:** MW-4
Project: Hobbs Tank **Lab ID:** 2103198-01
Project No: 11211520 **Collection Date:** 03/24/21 09:30 AM
Lab Order: 2103198 **Matrix:** AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|-----------|----------|------|-------|----|-------------------|
| TPH EXTRACTABLE BY GC - WATER | | | | | | | |
| TPH-DRO C10-C28 | <0.151 | 0.151 | 0.189 | | mg/L | 1 | 03/31/21 01:14 PM |
| Surr: Isopropylbenzene | 54.2 | 0 | 47-142 | %REC | | 1 | 03/31/21 01:14 PM |
| Surr: Octacosane | 74.8 | 0 | 51-124 | %REC | | 1 | 03/31/21 01:14 PM |
| TPH PURGEABLE BY GC - WATER | | | | | | | |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 03/30/21 02:23 PM |
| Surr: Tetrachlorethane | 120 | 0 | 74-138 | %REC | | 1 | 03/30/21 02:23 PM |
| TRACE METALS: ICP-MS - WATER | | | | | | | |
| Arsenic | 0.00827 | 0.00200 | 0.00500 | | mg/L | 1 | 03/29/21 01:00 PM |
| Barium | 0.130 | 0.00300 | 0.0100 | | mg/L | 1 | 03/29/21 01:00 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 01:00 PM |
| Chromium | 0.00279 | 0.00200 | 0.00500 | J | mg/L | 1 | 03/29/21 01:00 PM |
| Lead | 0.000878 | 0.000300 | 0.00100 | J | mg/L | 1 | 03/29/21 01:00 PM |
| Selenium | 0.00443 | 0.00200 | 0.00500 | J | mg/L | 1 | 03/29/21 01:00 PM |
| Silver | <0.00100 | 0.00100 | 0.00200 | | mg/L | 1 | 03/29/21 01:00 PM |
| MERCURY TOTAL: AQUEOUS | | | | | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 03/30/21 11:15 AM |
| 8260 WATER VOLATILES BY GC/MS | | | | | | | |
| SW8260D | | | | | | | |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 10:36 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 10:36 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 10:36 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 10:36 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 10:36 PM |
| Surr: 1,2-Dichloroethane-d4 | 110 | 0 | 72-119 | %REC | | 1 | 03/29/21 10:36 PM |
| Surr: 4-Bromofluorobenzene | 108 | 0 | 76-119 | %REC | | 1 | 03/29/21 10:36 PM |
| Surr: Dibromofluoromethane | 101 | 0 | 85-115 | %REC | | 1 | 03/29/21 10:36 PM |
| Surr: Toluene-d8 | 100 | 0 | 81-120 | %REC | | 1 | 03/29/21 10:36 PM |
| ANIONS BY IC METHOD - WATER | | | | | | | |
| E300 | | | | | | | |
| Chloride | 30.8 | 3.00 | 10.0 | | mg/L | 10 | 03/26/21 11:06 PM |
| TOTAL DISSOLVED SOLIDS | | | | | | | |
| Total Dissolved Solids (Residue, Filterable) | 584 | 10.0 | 10.0 | C | mg/L | 1 | 04/01/21 05:20 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 05-Apr-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11211520
Lab Order: 2103198

Client Sample ID: MW-5
Lab ID: 2103198-02
Collection Date: 03/24/21 10:00 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|-------|----|---------------------|
| TPH EXTRACTABLE BY GC - WATER | | M8015D | | | | | Analyst: BTJ |
| TPH-DRO C10-C28 | 0.281 | 0.149 | 0.186 | | mg/L | 1 | 03/31/21 01:23 PM |
| Surr: Isopropylbenzene | 97.3 | 0 | 47-142 | | %REC | 1 | 03/31/21 01:23 PM |
| Surr: Octacosane | 117 | 0 | 51-124 | | %REC | 1 | 03/31/21 01:23 PM |
| TPH PURGEABLE BY GC - WATER | | M8015V | | | | | Analyst: BTJ |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 03/30/21 02:46 PM |
| Surr: Tetrachlorethene | 124 | 0 | 74-138 | | %REC | 1 | 03/30/21 02:46 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | | | Analyst: RO |
| Arsenic | 0.00606 | 0.00200 | 0.00500 | | mg/L | 1 | 03/29/21 01:02 PM |
| Barium | 0.243 | 0.00300 | 0.0100 | | mg/L | 1 | 03/29/21 01:02 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 01:02 PM |
| Chromium | 0.00438 | 0.00200 | 0.00500 | J | mg/L | 1 | 03/29/21 01:02 PM |
| Lead | 0.000969 | 0.000300 | 0.00100 | J | mg/L | 1 | 03/29/21 01:02 PM |
| Selenium | 0.00432 | 0.00200 | 0.00500 | J | mg/L | 1 | 03/29/21 01:02 PM |
| Silver | <0.00100 | 0.00100 | 0.00200 | | mg/L | 1 | 03/29/21 01:02 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: JVR |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 03/30/21 11:22 AM |
| 8260 WATER VOLATILES BY GC/MS | | SW8260D | | | | | Analyst: SNM |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 11:00 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 11:00 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 11:00 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 11:00 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 11:00 PM |
| Surr: 1,2-Dichloroethane-d4 | 109 | 0 | 72-119 | | %REC | 1 | 03/29/21 11:00 PM |
| Surr: 4-Bromofluorobenzene | 108 | 0 | 76-119 | | %REC | 1 | 03/29/21 11:00 PM |
| Surr: Dibromofluoromethane | 102 | 0 | 85-115 | | %REC | 1 | 03/29/21 11:00 PM |
| Surr: Toluene-d8 | 100 | 0 | 81-120 | | %REC | 1 | 03/29/21 11:00 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | | | Analyst: BM |
| Chloride | 96.4 | 3.00 | 10.0 | | mg/L | 10 | 03/26/21 11:22 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | | | Analyst: JS |
| Total Dissolved Solids (Residue, Filterable) | 690 | 10.0 | 10.0 | | mg/L | 1 | 03/30/21 05:00 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 05-Apr-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11211520
Lab Order: 2103198

Client Sample ID: MW-5D
Lab ID: 2103198-03
Collection Date: 03/24/21 10:00 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--|----------------|-----------|----------|------|-------|---------------------|-------------------|
| TPH EXTRACTABLE BY GC - WATER | M8015D | | | | | Analyst: BTJ | |
| TPH-DRO C10-C28 | 0.152 | 0.149 | 0.186 | J | mg/L | 1 | 03/31/21 01:32 PM |
| Surr: Isopropylbenzene | 58.6 | 0 | 47-142 | %REC | | 1 | 03/31/21 01:32 PM |
| Surr: Octacosane | 87.5 | 0 | 51-124 | %REC | | 1 | 03/31/21 01:32 PM |
| TPH PURGEABLE BY GC - WATER | M8015V | | | | | Analyst: BTJ | |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 03/30/21 03:10 PM |
| Surr: Tetrachlorethene | 125 | 0 | 74-138 | %REC | | 1 | 03/30/21 03:10 PM |
| TRACE METALS: ICP-MS - WATER | SW6020B | | | | | Analyst: RO | |
| Arsenic | 0.00643 | 0.00200 | 0.00500 | | mg/L | 1 | 03/29/21 01:04 PM |
| Barium | 0.259 | 0.00300 | 0.0100 | | mg/L | 1 | 03/29/21 01:04 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 01:04 PM |
| Chromium | 0.00433 | 0.00200 | 0.00500 | J | mg/L | 1 | 03/29/21 01:04 PM |
| Lead | 0.00110 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 01:04 PM |
| Selenium | 0.00355 | 0.00200 | 0.00500 | J | mg/L | 1 | 03/29/21 01:04 PM |
| Silver | <0.00100 | 0.00100 | 0.00200 | | mg/L | 1 | 03/29/21 01:04 PM |
| MERCURY TOTAL: AQUEOUS | SW7470A | | | | | Analyst: JVR | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 03/30/21 11:33 AM |
| 8260 WATER VOLATILES BY GC/MS | SW8260D | | | | | Analyst: SNM | |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 11:25 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 11:25 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 11:25 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 11:25 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 11:25 PM |
| Surr: 1,2-Dichloroethane-d4 | 109 | 0 | 72-119 | %REC | | 1 | 03/29/21 11:25 PM |
| Surr: 4-Bromofluorobenzene | 108 | 0 | 76-119 | %REC | | 1 | 03/29/21 11:25 PM |
| Surr: Dibromofluoromethane | 101 | 0 | 85-115 | %REC | | 1 | 03/29/21 11:25 PM |
| Surr: Toluene-d8 | 101 | 0 | 81-120 | %REC | | 1 | 03/29/21 11:25 PM |
| ANIONS BY IC METHOD - WATER | E300 | | | | | Analyst: BM | |
| Chloride | 103 | 3.00 | 10.0 | | mg/L | 10 | 03/26/21 11:38 PM |
| TOTAL DISSOLVED SOLIDS | M2540C | | | | | Analyst: JS | |
| Total Dissolved Solids (Residue, Filterable) | 711 | 10.0 | 10.0 | | mg/L | 1 | 03/30/21 05:00 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.**Date:** 05-Apr-21

CLIENT: GHD **Client Sample ID:** HTRW-1
Project: Hobbs Tank **Lab ID:** 2103198-04
Project No: 11211520 **Collection Date:** 03/24/21 10:30 AM
Lab Order: 2103198 **Matrix:** AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|-----------|----------|------|-------|----|-------------------|
| TPH EXTRACTABLE BY GC - WATER | | | | | | | |
| TPH-DRO C10-C28 | 0.204 | 0.147 | 0.184 | | mg/L | 1 | 03/31/21 01:41 PM |
| Surr: Isopropylbenzene | 51.2 | 0 | 47-142 | %REC | | 1 | 03/31/21 01:41 PM |
| Surr: Octacosane | 72.5 | 0 | 51-124 | %REC | | 1 | 03/31/21 01:41 PM |
| TPH PURGEABLE BY GC - WATER | | | | | | | |
| Gasoline Range Organics | 2.36 | 0.0600 | 0.100 | | mg/L | 1 | 03/30/21 03:34 PM |
| Surr: Tetrachlorethane | 120 | 0 | 74-138 | %REC | | 1 | 03/30/21 03:34 PM |
| TRACE METALS: ICP-MS - WATER | | | | | | | |
| Arsenic | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 03/29/21 01:06 PM |
| Barium | 0.0703 | 0.00300 | 0.0100 | | mg/L | 1 | 03/29/21 01:06 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 01:06 PM |
| Chromium | 0.00837 | 0.00200 | 0.00500 | | mg/L | 1 | 03/29/21 01:06 PM |
| Lead | 0.00149 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 01:06 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 03/29/21 01:06 PM |
| Silver | <0.00100 | 0.00100 | 0.00200 | | mg/L | 1 | 03/29/21 01:06 PM |
| MERCURY TOTAL: AQUEOUS | | | | | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 03/30/21 11:35 AM |
| 8260 WATER VOLATILES BY GC/MS | | | | | | | |
| Benzene | 0.849 | 0.00300 | 0.0100 | | mg/L | 10 | 03/30/21 11:32 AM |
| Ethylbenzene | 0.00353 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 11:49 PM |
| m,p-Xylene | 0.0240 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 11:49 PM |
| o-Xylene | 0.0328 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 11:49 PM |
| Toluene | 0.124 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 11:49 PM |
| Surr: 1,2-Dichloroethane-d4 | 102 | 0 | 72-119 | %REC | | 1 | 03/29/21 11:49 PM |
| Surr: 1,2-Dichloroethane-d4 | 105 | 0 | 72-119 | %REC | | 10 | 03/30/21 11:32 AM |
| Surr: 4-Bromofluorobenzene | 106 | 0 | 76-119 | %REC | | 1 | 03/29/21 11:49 PM |
| Surr: 4-Bromofluorobenzene | 108 | 0 | 76-119 | %REC | | 10 | 03/30/21 11:32 AM |
| Surr: Dibromofluoromethane | 97.3 | 0 | 85-115 | %REC | | 1 | 03/29/21 11:49 PM |
| Surr: Dibromofluoromethane | 102 | 0 | 85-115 | %REC | | 10 | 03/30/21 11:32 AM |
| Surr: Toluene-d8 | 103 | 0 | 81-120 | %REC | | 1 | 03/29/21 11:49 PM |
| Surr: Toluene-d8 | 101 | 0 | 81-120 | %REC | | 10 | 03/30/21 11:32 AM |
| ANIONS BY IC METHOD - WATER | | | | | | | |
| Chloride | 105 | 3.00 | 10.0 | | mg/L | 10 | 03/27/21 12:26 AM |
| TOTAL DISSOLVED SOLIDS | | | | | | | |
| Total Dissolved Solids (Residue, Filterable) | 459 | 10.0 | 10.0 | C | mg/L | 1 | 04/01/21 05:20 PM |

| | | | | |
|--------------------|--|--|-----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | C | Sample Result or QC discussed in the Case Narrative |
| DF | Dilution Factor | | E | TPH pattern not Gas or Diesel Range Pattern |
| J | Analyte detected between MDL and RL | | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | | RL | Reporting Limit |
| S | Spike Recovery outside control limits | | N | Parameter not NELAP certified |

DHL Analytical, Inc.

Date: 05-Apr-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11211520
Lab Order: 2103198

Client Sample ID: Trip
Lab ID: 2103198-05
Collection Date: 03/24/21
Matrix: TRIP BLANK

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| TPH PURGEABLE BY GC - WATER | | M8015V | | | | | Analyst: BTJ |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 03/30/21 01:08 PM |
| Surr: Tetrachlorethane | 124 | 0 | 74-138 | | %REC | 1 | 03/30/21 01:08 PM |
| 8260 WATER VOLATILES BY GC/MS | | SW8260D | | | | | Analyst: SNM |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 03:57 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 03:57 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 03:57 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 03/29/21 03:57 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 03/29/21 03:57 PM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 0 | 72-119 | | %REC | 1 | 03/29/21 03:57 PM |
| Surr: 4-Bromofluorobenzene | 105 | 0 | 76-119 | | %REC | 1 | 03/29/21 03:57 PM |
| Surr: Dibromofluoromethane | 102 | 0 | 85-115 | | %REC | 1 | 03/29/21 03:57 PM |
| Surr: Toluene-d8 | 99.8 | 0 | 81-120 | | %REC | 1 | 03/29/21 03:57 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 05-Apr-21

CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT**RunID:** GC15_210331A

The QC data in batch 100024 applies to the following samples: 2103198-01E, 2103198-02E, 2103198-03E, 2103198-04E

| Sample ID: LCS-100024 | Batch ID: 100024 | TestNo: M8015D | Units: mg/L | | | | | | | |
|------------------------|----------------------|--------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GC15_210331A | Analysis Date: 3/31/2021 12:26:05 PM | Prep Date: 3/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | 0.973 | 0.100 | 1.250 | 0 | 77.8 | 50 | 114 | | | |
| Surr: Isopropylbenzene | 0.0576 | | 0.1000 | | 57.6 | 47 | 142 | | | |
| Surr: Octacosane | 0.0753 | | 0.1000 | | 75.3 | 51 | 124 | | | |
| Sample ID: LCSD-100024 | Batch ID: 100024 | TestNo: M8015D | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: GC15_210331A | Analysis Date: 3/31/2021 12:35:07 PM | Prep Date: 3/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | 0.992 | 0.100 | 1.250 | 0 | 79.4 | 50 | 114 | 1.99 | 30 | |
| Surr: Isopropylbenzene | 0.0575 | | 0.1000 | | 57.5 | 47 | 142 | 0 | 0 | |
| Surr: Octacosane | 0.0715 | | 0.1000 | | 71.5 | 51 | 124 | 0 | 0 | |
| Sample ID: MB-100024 | Batch ID: 100024 | TestNo: M8015D | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: GC15_210331A | Analysis Date: 3/31/2021 3:36:24 PM | Prep Date: 3/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | <0.0800 | 0.100 | | | | | | | | |
| Surr: Isopropylbenzene | 0.0654 | | 0.1000 | | 65.4 | 47 | 142 | | | |
| Surr: Octacosane | 0.0722 | | 0.1000 | | 72.2 | 51 | 124 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Page 1 of 10

CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_210330A

The QC data in batch 100027 applies to the following samples: 2103198-01B, 2103198-02B, 2103198-03B, 2103198-04B, 2103198-05B

| | | | | | | | | | | |
|---|----------------------------|---|-----------------------------|---|-----|----|-----|-------|----|--|
| Sample ID: LCS-100027 | Batch ID: 100027 | TestNo: M8015V | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: GC4_210330A | Analysis Date: 3/30/2021 11:08:38 AM | Prep Date: 3/30/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Sur: Tetrachlorethene | 2.97 | 0.100 | 2.500 | 0 | 119 | 67 | 136 | | | |
| | 0.432 | | 0.4000 | | 108 | 74 | 138 | | | |
| Sample ID: LCSD-100027 Batch ID: 100027 TestNo: M8015V Units: mg/L | | | | | | | | | | |
| SampType: LCSD | Run ID: GC4_210330A | Analysis Date: 3/30/2021 11:33:07 AM | Prep Date: 3/30/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Sur: Tetrachlorethene | 2.99 | 0.100 | 2.500 | 0 | 120 | 67 | 136 | 0.567 | 30 | |
| | 0.477 | | 0.4000 | | 119 | 74 | 138 | 0 | 0 | |
| Sample ID: MB-100027 Batch ID: 100027 TestNo: M8015V Units: mg/L | | | | | | | | | | |
| SampType: MBLK | Run ID: GC4_210330A | Analysis Date: 3/30/2021 12:44:26 PM | Prep Date: 3/30/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Sur: Tetrachlorethene | <0.0600 | 0.100 | | | | | | | | |
| | 0.478 | | 0.4000 | | 120 | 74 | 138 | | | |
| Sample ID: 2103200-06BMS Batch ID: 100027 TestNo: M8015V Units: mg/L | | | | | | | | | | |
| SampType: MS | Run ID: GC4_210330A | Analysis Date: 3/30/2021 9:08:36 PM | Prep Date: 3/30/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Sur: Tetrachlorethene | 2.83 | 0.100 | 2.500 | 0 | 113 | 67 | 136 | | | |
| | 0.492 | | 0.4000 | | 123 | 74 | 138 | | | |
| Sample ID: 2103200-06BMSD Batch ID: 100027 TestNo: M8015V Units: mg/L | | | | | | | | | | |
| SampType: MSD | Run ID: GC4_210330A | Analysis Date: 3/30/2021 9:32:37 PM | Prep Date: 3/30/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Sur: Tetrachlorethene | 2.89 | 0.100 | 2.500 | 0 | 116 | 67 | 136 | 2.20 | 30 | |
| | 0.489 | | 0.4000 | | 122 | 74 | 138 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

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CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210330C

The QC data in batch 100013 applies to the following samples: 2103198-01C, 2103198-02C, 2103198-03C, 2103198-04C

| | | | | | | | | | | | |
|---|----------------------------------|---|-----------------------------|---|------|----|-----|------|----|--|--|
| Sample ID: MB-100013 | Batch ID: 100013 | TestNo: SW7470A | Units: mg/L | | | | | | | | |
| SampType: MLBK | Run ID: CETAC2_HG_210330C | Analysis Date: 3/30/2021 11:08:24 AM | Prep Date: 3/29/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Mercury | <0.0000800 | 0.000200 | | | | | | | | | |
| Sample ID: LCS-100013 | Batch ID: 100013 | TestNo: SW7470A | Units: mg/L | | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_210330C | Analysis Date: 3/30/2021 11:10:42 AM | Prep Date: 3/29/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Mercury | 0.00195 | 0.000200 | 0.00200 | 0 | 97.5 | 85 | 115 | | | | |
| Sample ID: LCSD-100013 | Batch ID: 100013 | TestNo: SW7470A | Units: mg/L | | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_210330C | Analysis Date: 3/30/2021 11:12:59 AM | Prep Date: 3/29/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Mercury | 0.00195 | 0.000200 | 0.00200 | 0 | 97.5 | 85 | 115 | 0 | 15 | | |
| Sample ID: 2103198-02C MS | Batch ID: 100013 | TestNo: SW7470A | Units: mg/L | | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_210330C | Analysis Date: 3/30/2021 11:24:27 AM | Prep Date: 3/29/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Mercury | 0.00195 | 0.000200 | 0.00200 | 0 | 97.5 | 80 | 120 | | | | |
| Sample ID: 2103198-02C MSD | Batch ID: 100013 | TestNo: SW7470A | Units: mg/L | | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_210330C | Analysis Date: 3/30/2021 11:26:44 AM | Prep Date: 3/29/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Mercury | 0.00199 | 0.000200 | 0.00200 | 0 | 99.5 | 80 | 120 | 2.03 | 15 | | |
| Sample ID: 2103198-02C SD | Batch ID: 100013 | TestNo: SW7470A | Units: mg/L | | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_210330C | Analysis Date: 3/30/2021 11:29:01 AM | Prep Date: 3/29/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | | |
| Sample ID: 2103198-02C PDS | Batch ID: 100013 | TestNo: SW7470A | Units: mg/L | | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_210330C | Analysis Date: 3/30/2021 11:31:18 AM | Prep Date: 3/29/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Mercury | 0.00242 | 0.000200 | 0.00250 | 0 | 96.8 | 85 | 115 | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

Page 3 of 10

CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210329B

The QC data in batch 99978 applies to the following samples: 2103198-01C, 2103198-02C, 2103198-03C, 2103198-04C

| Sample ID: MB-99978 | Batch ID: 99978 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: ICP-MS4_210329B | Analysis Date: 3/29/2021 12:40:00 PM | Prep Date: 3/26/2021 | | | | | | | |
| <hr/> | | | | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Silver | <0.00100 | 0.00200 | | | | | | | | |

| Sample ID: LCS-99978 | Batch ID: 99978 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: ICP-MS4_210329B | Analysis Date: 3/29/2021 12:42:00 PM | Prep Date: 3/26/2021 | | | | | | | |
| <hr/> | | | | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 98.8 | 80 | 120 | | | |
| Barium | 0.204 | 0.0100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cadmium | 0.199 | 0.00100 | 0.200 | 0 | 99.7 | 80 | 120 | | | |
| Chromium | 0.205 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Lead | 0.203 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Selenium | 0.205 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Silver | 0.196 | 0.00200 | 0.200 | 0 | 98.1 | 80 | 120 | | | |

| Sample ID: LCSD-99978 | Batch ID: 99978 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: LCSD | Run ID: ICP-MS4_210329B | Analysis Date: 3/29/2021 12:44:00 PM | Prep Date: 3/26/2021 | | | | | | | |
| <hr/> | | | | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 80 | 120 | 1.02 | 15 | |
| Barium | 0.204 | 0.0100 | 0.200 | 0 | 102 | 80 | 120 | 0.082 | 15 | |
| Cadmium | 0.199 | 0.00100 | 0.200 | 0 | 99.7 | 80 | 120 | 0.025 | 15 | |
| Chromium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.274 | 15 | |
| Lead | 0.204 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | 0.166 | 15 | |
| Selenium | 0.209 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 1.93 | 15 | |
| Silver | 0.196 | 0.00200 | 0.200 | 0 | 98.2 | 80 | 120 | 0.146 | 15 | |

| Sample ID: 2103200-01C SD | Batch ID: 99978 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: SD | Run ID: ICP-MS4_210329B | Analysis Date: 3/29/2021 12:50:00 PM | Prep Date: 3/26/2021 | | | | | | | |
| <hr/> | | | | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00549 | | | | 0 | 20 | |
| Barium | 0.0964 | 0.0500 | 0 | 0.0946 | | | | 1.84 | 20 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 20 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAP certified |

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CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210329B

| Sample ID: 2103200-01C SD | | Batch ID: 99978 | | TestNo: SW6020B | | Units: mg/L | |
|----------------------------|-------------------------|--------------------------------------|-------|-----------------|---------|----------------------|---------------------------------------|
| SampType: SD | Run ID: ICP-MS4_210329B | Analysis Date: 3/29/2021 12:50:00 PM | | | | Prep Date: 3/26/2021 | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | 0 20 |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | 0 20 |
| Silver | <0.00500 | 0.0100 | 0 | 0 | | | 0 20 |
| Sample ID: 2103200-01C PDS | | Batch ID: 99978 | | TestNo: SW6020B | | Units: mg/L | |
| SampType: PDS | Run ID: ICP-MS4_210329B | Analysis Date: 3/29/2021 1:10:00 PM | | | | Prep Date: 3/26/2021 | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Arsenic | 0.203 | 0.00500 | 0.200 | 0.00549 | 98.6 | 75 125 | |
| Barium | 0.301 | 0.0100 | 0.200 | 0.0946 | 103 | 75 125 | |
| Cadmium | 0.201 | 0.00100 | 0.200 | 0 | 100 | 75 125 | |
| Chromium | 0.211 | 0.00500 | 0.200 | 0 | 106 | 75 125 | |
| Lead | 0.212 | 0.00100 | 0.200 | 0 | 106 | 75 125 | |
| Selenium | 0.209 | 0.00500 | 0.200 | 0 | 104 | 75 125 | |
| Silver | 0.184 | 0.00200 | 0.200 | 0 | 92.0 | 75 125 | |
| Sample ID: 2103200-01C MS | | Batch ID: 99978 | | TestNo: SW6020B | | Units: mg/L | |
| SampType: MS | Run ID: ICP-MS4_210329B | Analysis Date: 3/29/2021 1:12:00 PM | | | | Prep Date: 3/26/2021 | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Arsenic | 0.204 | 0.00500 | 0.200 | 0.00549 | 99.4 | 75 125 | |
| Barium | 0.299 | 0.0100 | 0.200 | 0.0946 | 102 | 75 125 | |
| Cadmium | 0.195 | 0.00100 | 0.200 | 0 | 97.7 | 75 125 | |
| Chromium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 75 125 | |
| Lead | 0.209 | 0.00100 | 0.200 | 0 | 105 | 75 125 | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 75 125 | |
| Silver | 0.190 | 0.00200 | 0.200 | 0 | 95.1 | 75 125 | |
| Sample ID: 2103200-01C MSD | | Batch ID: 99978 | | TestNo: SW6020B | | Units: mg/L | |
| SampType: MSD | Run ID: ICP-MS4_210329B | Analysis Date: 3/29/2021 1:14:00 PM | | | | Prep Date: 3/26/2021 | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Arsenic | 0.204 | 0.00500 | 0.200 | 0.00549 | 99.2 | 75 125 0.135 15 | |
| Barium | 0.303 | 0.0100 | 0.200 | 0.0946 | 104 | 75 125 1.31 15 | |
| Cadmium | 0.195 | 0.00100 | 0.200 | 0 | 97.4 | 75 125 0.350 15 | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 75 125 0.223 15 | |
| Lead | 0.209 | 0.00100 | 0.200 | 0 | 105 | 75 125 0.000 15 | |
| Selenium | 0.208 | 0.00500 | 0.200 | 0 | 104 | 75 125 2.00 15 | |
| Silver | 0.189 | 0.00200 | 0.200 | 0 | 94.7 | 75 125 0.459 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_210329A

The QC data in batch 100010 applies to the following samples: 2103198-01A, 2103198-02A, 2103198-03A, 2103198-04A, 2103198-05A

| | | | |
|------------------------------|------------------------------|---|-----------------------------|
| Sample ID: LCS-100010 | Batch ID: 100010 | TestNo: SW8260D | Units: mg/L |
| SampType: LCS | Run ID: GCMS7_210329A | Analysis Date: 3/29/2021 12:09:00 PM | Prep Date: 3/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------------------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Benzene | 0.0260 | 0.00100 | 0.0232 | 0 | 112 | 81 | 122 | | | |
| Ethylbenzene | 0.0253 | 0.00100 | 0.0232 | 0 | 109 | 80 | 120 | | | |
| m,p-Xylene | 0.0510 | 0.00200 | 0.0464 | 0 | 110 | 80 | 120 | | | |
| o-Xylene | 0.0250 | 0.00100 | 0.0232 | 0 | 108 | 80 | 120 | | | |
| Toluene | 0.0249 | 0.00200 | 0.0232 | 0 | 107 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 199 | | 200.0 | | 99.3 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 205 | | 200.0 | | 103 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 199 | | 200.0 | | 99.6 | 85 | 115 | | | |
| Surr: Toluene-d8 | 202 | | 200.0 | | 101 | 81 | 120 | | | |

| | | | |
|-----------------------------|------------------------------|--|-----------------------------|
| Sample ID: MB-100010 | Batch ID: 100010 | TestNo: SW8260D | Units: mg/L |
| SampType: MBLK | Run ID: GCMS7_210329A | Analysis Date: 3/29/2021 1:06:00 PM | Prep Date: 3/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------------------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Benzene | <0.000300 | 0.00100 | | | | | | | | |
| Ethylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| m,p-Xylene | <0.000600 | 0.00200 | | | | | | | | |
| o-Xylene | <0.000300 | 0.00100 | | | | | | | | |
| Toluene | <0.000600 | 0.00200 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 208 | | 200.0 | | 104 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 209 | | 200.0 | | 104 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 206 | | 200.0 | | 103 | 85 | 115 | | | |
| Surr: Toluene-d8 | 196 | | 200.0 | | 98.1 | 81 | 120 | | | |

| | | | |
|-----------------------------|------------------------------|--|--------------------|
| Sample ID: SB-210329 | Batch ID: 100010 | TestNo: SW8260D | Units: mg/L |
| SampType: SBLK | Run ID: GCMS7_210329A | Analysis Date: 3/29/2021 6:07:00 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------------------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Benzene | <0.000300 | 0.00100 | 0 | | | | | | | |
| Ethylbenzene | <0.000300 | 0.00100 | 0 | | | | | | | |
| m,p-Xylene | <0.000600 | 0.00200 | 0 | | | | | | | |
| o-Xylene | <0.000300 | 0.00100 | 0 | | | | | | | |
| Toluene | <0.000600 | 0.00200 | 0 | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 209 | | 0 | | | | | | | |
| Surr: 4-Bromofluorobenzene | 211 | | 0 | | | | | | | |
| Surr: Dibromofluoromethane | 205 | | 0 | | | | | | | |
| Surr: Toluene-d8 | 202 | | 0 | | | | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_210329A

| Sample ID: 2103193-01AMS | Batch ID: 100010 | TestNo: | SW8260D | Units: | mg/L | | | | | |
|-----------------------------|-----------------------|-------------------------------------|-----------|------------|-----------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS7_210329A | Analysis Date: 3/30/2021 2:15:00 AM | | Prep Date: | 3/29/2021 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.0235 | 0.00100 | 0.0232 | 0 | 101 | 81 | 122 | | | |
| Ethylbenzene | 0.0220 | 0.00100 | 0.0232 | 0 | 94.9 | 80 | 120 | | | |
| m,p-Xylene | 0.0447 | 0.00200 | 0.0464 | 0 | 96.4 | 80 | 120 | | | |
| o-Xylene | 0.0220 | 0.00100 | 0.0232 | 0 | 95.0 | 80 | 120 | | | |
| Toluene | 0.0222 | 0.00200 | 0.0232 | 0 | 95.8 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 210 | | 200.0 | | 105 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 211 | | 200.0 | | 105 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 203 | | 200.0 | | 101 | 85 | 115 | | | |
| Surr: Toluene-d8 | 204 | | 200.0 | | 102 | 81 | 120 | | | |

| Sample ID: 2103193-01AMSD | Batch ID: 100010 | TestNo: | SW8260D | Units: | mg/L | | | | | |
|-----------------------------|-----------------------|-------------------------------------|-----------|------------|-----------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: GCMS7_210329A | Analysis Date: 3/30/2021 2:40:00 AM | | Prep Date: | 3/29/2021 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.0221 | 0.00100 | 0.0232 | 0 | 95.4 | 81 | 122 | 5.83 | 20 | |
| Ethylbenzene | 0.0210 | 0.00100 | 0.0232 | 0 | 90.3 | 80 | 120 | 4.93 | 20 | |
| m,p-Xylene | 0.0426 | 0.00200 | 0.0464 | 0 | 91.8 | 80 | 120 | 4.92 | 20 | |
| o-Xylene | 0.0210 | 0.00100 | 0.0232 | 0 | 90.7 | 80 | 120 | 4.64 | 20 | |
| Toluene | 0.0210 | 0.00200 | 0.0232 | 0 | 90.4 | 80 | 120 | 5.79 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 208 | | 200.0 | | 104 | 72 | 119 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 209 | | 200.0 | | 105 | 76 | 119 | 0 | 0 | |
| Surr: Dibromofluoromethane | 203 | | 200.0 | | 101 | 85 | 115 | 0 | 0 | |
| Surr: Toluene-d8 | 203 | | 200.0 | | 101 | 81 | 120 | 0 | 0 | |

| Sample ID: SB-210330 | Batch ID: 100010 | TestNo: | SW8260D | Units: | mg/L | | | | | |
|-----------------------------|-----------------------|--------------------------------------|-----------|------------|------|----------|-----------|------|----------|------|
| SampType: SBLK | Run ID: GCMS7_210329A | Analysis Date: 3/30/2021 10:43:00 AM | | Prep Date: | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | <0.000300 | 0.00100 | 0 | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 214 | | 0 | | | | | | | |
| Surr: 4-Bromofluorobenzene | 216 | | 0 | | | | | | | |
| Surr: Dibromofluoromethane | 207 | | 0 | | | | | | | |
| Surr: Toluene-d8 | 200 | | 0 | | | | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT**RunID:** IC4_210326A

The QC data in batch 99989 applies to the following samples: 2103198-01D, 2103198-02D, 2103198-03D, 2103198-04D

| | | | | | | | | | | | |
|---|----------------------------|---|-----------------------------|-------|------|----|-----|-------|----|---|--|
| Sample ID: MB-99989 | Batch ID: 99989 | TestNo: E300 | Units: mg/L | | | | | | | | |
| SampType: MLBK | Run ID: IC4_210326A | Analysis Date: 3/26/2021 4:58:06 PM | Prep Date: 3/26/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Chloride | <0.300 | 1.00 | | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Chloride | 10.1 | 1.00 | 10.00 | 0 | 101 | 90 | 110 | | | | |
| Sample ID: LCS-99989 | Batch ID: 99989 | TestNo: E300 | Units: mg/L | | | | | | | | |
| SampType: LCS | Run ID: IC4_210326A | Analysis Date: 3/26/2021 5:14:06 PM | Prep Date: 3/26/2021 | | | | | | | | |
| Chloride | 9.73 | 1.00 | 10.00 | 0 | 97.3 | 90 | 110 | 3.41 | 20 | | |
| Sample ID: 2103155-02AMS | Batch ID: 99989 | TestNo: E300 | Units: mg/L | | | | | | | | |
| SampType: MS | Run ID: IC4_210326A | Analysis Date: 3/26/2021 10:34:06 PM | Prep Date: 3/26/2021 | | | | | | | | |
| Chloride | 819 | 10.0 | 200.0 | 727.9 | 45.3 | 90 | 110 | | | S | |
| Sample ID: 2103155-02AMSD | Batch ID: 99989 | TestNo: E300 | Units: mg/L | | | | | | | | |
| SampType: MSD | Run ID: IC4_210326A | Analysis Date: 3/26/2021 10:50:06 PM | Prep Date: 3/26/2021 | | | | | | | | |
| Chloride | 819 | 10.0 | 200.0 | 727.9 | 45.4 | 90 | 110 | 0.021 | 20 | S | |
| Sample ID: 2103198-03DMS | Batch ID: 99989 | TestNo: E300 | Units: mg/L | | | | | | | | |
| SampType: MS | Run ID: IC4_210326A | Analysis Date: 3/26/2021 11:54:06 PM | Prep Date: 3/26/2021 | | | | | | | | |
| Chloride | 305 | 10.0 | 200.0 | 102.9 | 101 | 90 | 110 | | | | |
| Sample ID: 2103198-03DMSD | Batch ID: 99989 | TestNo: E300 | Units: mg/L | | | | | | | | |
| SampType: MSD | Run ID: IC4_210326A | Analysis Date: 3/27/2021 12:10:06 AM | Prep Date: 3/26/2021 | | | | | | | | |
| Chloride | 302 | 10.0 | 200.0 | 102.9 | 99.5 | 90 | 110 | 1.03 | 20 | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT**RunID:** WC_210330C

The QC data in batch 100032 applies to the following samples: 2103198-01D, 2103198-02D, 2103198-03D, 2103198-04D

| | | | |
|--|---------------------------|--|-----------------------------|
| Sample ID: MB-100032 | Batch ID: 100032 | TestNo: M2540C | Units: mg/L |
| SampType: MLBK | Run ID: WC_210330C | Analysis Date: 3/30/2021 5:00:00 PM | Prep Date: 3/30/2021 |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | |
| Total Dissolved Solids (Residue, Filtera) | <10.0 | 10.0 | |
| Sample ID: LCS-100032 | Batch ID: 100032 | TestNo: M2540C | Units: mg/L |
| SampType: LCS | Run ID: WC_210330C | Analysis Date: 3/30/2021 5:00:00 PM | Prep Date: 3/30/2021 |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | |
| Total Dissolved Solids (Residue, Filtera) | 749 | 10.0 | 745.6 0 100 90 113 |
| Sample ID: 2103198-01D DUP | Batch ID: 100032 | TestNo: M2540C | Units: mg/L |
| SampType: DUP | Run ID: WC_210330C | Analysis Date: 4/1/2021 12:40:00 PM | Prep Date: 3/31/2021 |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | |
| Total Dissolved Solids (Residue, Filtera) | 1240 | 200 | 0 1220 1.63 5 |
| Sample ID: 2103198-04D DUP | Batch ID: 100032 | TestNo: M2540C | Units: mg/L |
| SampType: DUP | Run ID: WC_210330C | Analysis Date: 4/1/2021 12:40:00 PM | Prep Date: 3/31/2021 |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | |
| Total Dissolved Solids (Residue, Filtera) | 760 | 200 | 0 800.0 5.13 5 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: GHD
Work Order: 2103198
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: WC_210401A

The QC data in batch 100071 applies to the following samples: 2103198-01D, 2103198-04D

| | | | | | | | | | | | |
|---|---------------------------|---|----------------------------|------|-----|----|-----|------|---|--|--|
| Sample ID: MB-100071 | Batch ID: 100071 | TestNo: M2540C | Units: mg/L | | | | | | | | |
| SampType: MLBK | Run ID: WC_210401A | Analysis Date: 4/1/2021 5:20:00 PM | Prep Date: 4/1/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Total Dissolved Solids (Residue, Filtera) | <10.0 | 10.0 | | | | | | | | | |
| Sample ID: LCS-100071 | Batch ID: 100071 | TestNo: M2540C | Units: mg/L | | | | | | | | |
| SampType: LCS | Run ID: WC_210401A | Analysis Date: 4/1/2021 5:20:00 PM | Prep Date: 4/1/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Total Dissolved Solids (Residue, Filtera) | 747 | 10.0 | 745.6 | 0 | 100 | 90 | 113 | | | | |
| Sample ID: MB-99925-7DAY | Batch ID: 100071 | TestNo: M2540C | Units: mg/L | | | | | | | | |
| SampType: MLBK | Run ID: WC_210401A | Analysis Date: 4/1/2021 5:20:00 PM | Prep Date: 4/1/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Total Dissolved Solids (Residue, Filtera) | <10.0 | 10.0 | 0 | | | | | | | | |
| Sample ID: 2103221-01D-DUP | Batch ID: 100071 | TestNo: M2540C | Units: mg/L | | | | | | | | |
| SampType: DUP | Run ID: WC_210401A | Analysis Date: 4/1/2021 5:20:00 PM | Prep Date: 4/1/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Total Dissolved Solids (Residue, Filtera) | 6570 | 50.0 | 0 | 6650 | | | | 1.21 | 5 | | |
| Sample ID: 2103221-02D-DUP | Batch ID: 100071 | TestNo: M2540C | Units: mg/L | | | | | | | | |
| SampType: DUP | Run ID: WC_210401A | Analysis Date: 4/1/2021 5:20:00 PM | Prep Date: 4/1/2021 | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | |
| Total Dissolved Solids (Residue, Filtera) | 1650 | 50.0 | 0 | 1705 | | | | 3.28 | 5 | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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June 16, 2021

Brad Stephenson
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (720) 974-0935
FAX (432) 686-0186

Order No.: 2106067

RE: Hobbs Tank

Dear Brad Stephenson:

DHL Analytical, Inc. received 1 sample(s) on 6/9/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Saying for".
John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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| Analytical Report 2106067 | 7 |
| AnalyticalQCSummaryReport 2106067 | 8 |

ORIGIN ID:H0BA (303) S-1159
FZ
BRAD
GHD
14998 W 6TH AVE STE 800
GOLDEN, CO 80401
UNITED STATES US

SHIP DATE: 08JUN21
ACTWGT: 47.15 LB
CAD: 6994246/SSFE2202
DIMS: 24x15x13 IN
BILL THIRD PARTY

PART # 15629-435 RTRB EXP 11/21

TO DHL

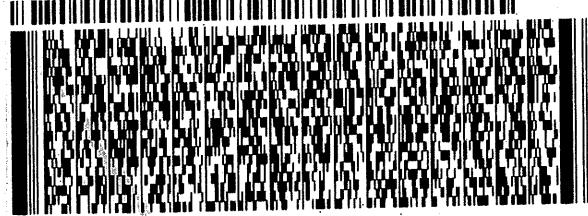
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222
INTL
PO#

REF:

DEPT:



FedEx
Express



REL#
3786346

12113210321011W
WED - 09 JUN 10:30A
PRIORITY OVERNIGHT

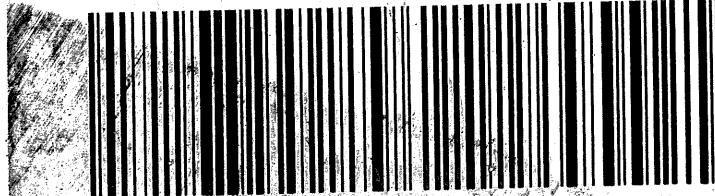
2 of 2
MPS# 2801 6583 7984
0263

Mstr# 2801 6583 7973

0201

AHS
78664
TX-US AUS

A8 BSMA



DHL Analytical, Inc.

Sample Receipt Checklist

Client Name GHD

Date Received: 6/9/2021

Work Order Number 2106067

Received by: RA

Checklist completed by:



Signature

6/9/2021

Date

Reviewed by:



Initials

6/9/2021

Date

Carrier name: FedEx 1day

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 1.7 °C |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt? | Adjusted? _____ | Checked by _____ | |
| Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt? | Adjusted? _____ | Checked by _____ | |

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

_____Corrective Action: _____

DHL Analytical, Inc.**Date:** 16-Jun-21

CLIENT: GHD
Project: Hobbs Tank
Lab Order: 2106067

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, M8015D and M8015V.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Volatiles analysis by method SW8260D the matrix spike and matrix spike duplicate recoveries were out of control limits for Benzene. This was due to matrix interference. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for this compound. No further corrective actions were taken.

For DRO analysis by method M8015D an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

For DRO analysis by method M8015D the surrogate recoveries for the LCS/LCSD were below control limits for Isopropylbenzene. These are flagged accordingly. The remaining surrogate was within control limits. No further corrective actions were taken.

DHL Analytical, Inc.

Date: 16-Jun-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11224355-0
Lab Order: 2106067

Client Sample ID: HTRW-1
Lab ID: 2106067-01
Collection Date: 06/08/21 08:50 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|----------------|---------|------|-------|----|---------------------|
| TPH EXTRACTABLE BY GC - WATER | | M8015D | | | | | Analyst: BTJ |
| TPH-DRO C10-C28 | <0.147 | 0.147 | 0.184 | | mg/L | 1 | 06/14/21 12:52 PM |
| Surr: Isopropylbenzene | 59.7 | 0 | 47-142 | | %REC | 1 | 06/14/21 12:52 PM |
| Surr: Octacosane | 92.1 | 0 | 51-124 | | %REC | 1 | 06/14/21 12:52 PM |
| TPH PURGEABLE BY GC - WATER | | M8015V | | | | | Analyst: BTJ |
| Gasoline Range Organics | 1.70 | 0.0600 | 0.100 | | mg/L | 1 | 06/14/21 05:26 PM |
| Surr: Tetrachlorethane | 124 | 0 | 74-138 | | %REC | 1 | 06/14/21 05:26 PM |
| 8260 WATER VOLATILES BY GC/MS | | SW8260D | | | | | Analyst: SNM |
| Benzene | 0.765 | 0.00300 | 0.0100 | | mg/L | 10 | 06/09/21 04:34 PM |
| Ethylbenzene | 0.00220 | 0.000300 | 0.00100 | | mg/L | 1 | 06/09/21 05:04 PM |
| m,p-Xylene | 0.0208 | 0.000600 | 0.00200 | | mg/L | 1 | 06/09/21 05:04 PM |
| o-Xylene | 0.0253 | 0.000300 | 0.00100 | | mg/L | 1 | 06/09/21 05:04 PM |
| Toluene | 0.0863 | 0.000600 | 0.00200 | | mg/L | 1 | 06/09/21 05:04 PM |
| Surr: 1,2-Dichloroethane-d4 | 102 | 0 | 72-119 | | %REC | 10 | 06/09/21 04:34 PM |
| Surr: 1,2-Dichloroethane-d4 | 100 | 0 | 72-119 | | %REC | 1 | 06/09/21 05:04 PM |
| Surr: 4-Bromofluorobenzene | 103 | 0 | 76-119 | | %REC | 1 | 06/09/21 05:04 PM |
| Surr: 4-Bromofluorobenzene | 102 | 0 | 76-119 | | %REC | 10 | 06/09/21 04:34 PM |
| Surr: Dibromofluoromethane | 99.4 | 0 | 85-115 | | %REC | 10 | 06/09/21 04:34 PM |
| Surr: Dibromofluoromethane | 97.3 | 0 | 85-115 | | %REC | 1 | 06/09/21 05:04 PM |
| Surr: Toluene-d8 | 98.6 | 0 | 81-120 | | %REC | 10 | 06/09/21 04:34 PM |
| Surr: Toluene-d8 | 99.0 | 0 | 81-120 | | %REC | 1 | 06/09/21 05:04 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 16-Jun-21

CLIENT: GHD
Work Order: 2106067
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT**RunID:** GC15_210614A

The QC data in batch 100874 applies to the following samples: 2106067-01C

| Sample ID: | MB-100874 | Batch ID: | 100874 | TestNo: | M8015D | | Units: | mg/L | | | |
|------------------------|-------------|-----------|--------------|--------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | MLBK | Run ID: | GC15_210614A | Analysis Date: 6/14/2021 10:11:43 AM | | | Prep Date: | 6/10/2021 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | <0.0800 | 0.100 | 0 | | | | | | | |
| Surr: Isopropylbenzene | | 0.0572 | | 0.1000 | | 57.2 | 47 | 142 | | | |
| Surr: Octacosane | | 0.0879 | | 0.1000 | | 87.9 | 51 | 124 | | | |
| Sample ID: | LCS-100874 | Batch ID: | 100874 | TestNo: | M8015D | | Units: | mg/L | | | |
| SampType: | LCS | Run ID: | GC15_210614A | Analysis Date: 6/14/2021 10:20:47 AM | | | Prep Date: | 6/10/2021 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 0.959 | 0.100 | 1.250 | 0 | 76.8 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 0.0304 | | 0.1000 | | 30.4 | 47 | 142 | | | S |
| Surr: Octacosane | | 0.0843 | | 0.1000 | | 84.3 | 51 | 124 | | | |
| Sample ID: | LCSD-100874 | Batch ID: | 100874 | TestNo: | M8015D | | Units: | mg/L | | | |
| SampType: | LCSD | Run ID: | GC15_210614A | Analysis Date: 6/14/2021 10:29:50 AM | | | Prep Date: | 6/10/2021 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 1.09 | 0.100 | 1.250 | 0 | 87.1 | 50 | 114 | 12.6 | 30 | |
| Surr: Isopropylbenzene | | 0.0298 | | 0.1000 | | 29.8 | 47 | 142 | 0 | 0 | S |
| Surr: Octacosane | | 0.0894 | | 0.1000 | | 89.4 | 51 | 124 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Page 1 of 4

CLIENT: GHD
Work Order: 2106067
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_210614A

The QC data in batch 100901 applies to the following samples: 2106067-01B

| Sample ID: | Batch ID: | TestNo: | Units: | | | | | | | |
|-----------------------------|-----------|----------------|------------|---------|------|----------|-----------|------|----------|------|
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 2.23 | 0.100 | 2.500 | 0 | 89.3 | 67 | 136 | | | |
| Surrogate: Tetrachlorethene | 0.350 | | 0.4000 | | 87.5 | 74 | 138 | | | |
| Sample ID: | Batch ID: | TestNo: | Units: | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 2.61 | 0.100 | 2.500 | 0 | 104 | 67 | 136 | 15.7 | 30 | |
| Surrogate: Tetrachlorethene | 0.383 | | 0.4000 | | 95.6 | 74 | 138 | 0 | 0 | |
| Sample ID: | Batch ID: | TestNo: | Units: | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | <0.0600 | 0.100 | | | | | | | | |
| Surrogate: Tetrachlorethene | 0.436 | | 0.4000 | | 109 | 74 | 138 | | | |
| Sample ID: | Batch ID: | TestNo: | Units: | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 2.64 | 0.100 | 2.500 | 0 | 106 | 67 | 136 | | | |
| Surrogate: Tetrachlorethene | 0.475 | | 0.4000 | | 119 | 74 | 138 | | | |
| Sample ID: | Batch ID: | TestNo: | Units: | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 2.80 | 0.100 | 2.500 | 0 | 112 | 67 | 136 | 5.77 | 30 | |
| Surrogate: Tetrachlorethene | 0.492 | | 0.4000 | | 123 | 74 | 138 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Page 2 of 4

CLIENT: GHD
Work Order: 2106067
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_210609A

The QC data in batch 100868 applies to the following samples: 2106067-01A

| Sample ID: LCS-100868 | Batch ID: 100868 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|---------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS5_210609A | Analysis Date: 6/9/2021 12:14:00 PM | Prep Date: 6/9/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.0224 | 0.00100 | 0.0232 | 0 | 96.7 | 81 | 122 | | | |
| Ethylbenzene | 0.0222 | 0.00100 | 0.0232 | 0 | 95.7 | 80 | 120 | | | |
| m,p-Xylene | 0.0444 | 0.00200 | 0.0464 | 0 | 95.8 | 80 | 120 | | | |
| o-Xylene | 0.0220 | 0.00100 | 0.0232 | 0 | 95.0 | 80 | 120 | | | |
| Toluene | 0.0224 | 0.00200 | 0.0232 | 0 | 96.6 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 195 | | 200.0 | | 97.7 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 203 | | 200.0 | | 101 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 199 | | 200.0 | | 99.6 | 85 | 115 | | | |
| Surr: Toluene-d8 | 195 | | 200.0 | | 97.3 | 81 | 120 | | | |

| Sample ID: MB-100868 | Batch ID: 100868 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|-----------------------|------------------------------------|---------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS5_210609A | Analysis Date: 6/9/2021 1:06:00 PM | Prep Date: 6/9/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | <0.000300 | 0.00100 | | | | | | | | |
| Ethylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| m,p-Xylene | <0.000600 | 0.00200 | | | | | | | | |
| o-Xylene | <0.000300 | 0.00100 | | | | | | | | |
| Toluene | <0.000600 | 0.00200 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 206 | | 200.0 | | 103 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 206 | | 200.0 | | 103 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 202 | | 200.0 | | 101 | 85 | 115 | | | |
| Surr: Toluene-d8 | 196 | | 200.0 | | 98.2 | 81 | 120 | | | |

| Sample ID: 2106067-01AMS | Batch ID: 100868 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|-----------------------|------------------------------------|---------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS5_210609A | Analysis Date: 6/9/2021 5:30:00 PM | Prep Date: 6/9/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.829 | 0.0100 | 0.232 | 0.765 | 27.5 | 81 | 122 | | | S |
| Ethylbenzene | 0.254 | 0.0100 | 0.232 | 0.00313 | 108 | 80 | 120 | | | |
| m,p-Xylene | 0.530 | 0.0200 | 0.464 | 0.0300 | 108 | 80 | 120 | | | |
| o-Xylene | 0.285 | 0.0100 | 0.232 | 0.0357 | 107 | 80 | 120 | | | |
| Toluene | 0.350 | 0.0200 | 0.232 | 0.127 | 96.4 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 2030 | | 2000 | | 102 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 1990 | | 2000 | | 99.5 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 2000 | | 2000 | | 99.8 | 85 | 115 | | | |
| Surr: Toluene-d8 | 1960 | | 2000 | | 97.9 | 81 | 120 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAP certified |

Page 3 of 4

CLIENT: GHD
Work Order: 2106067
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_210609A

| Sample ID: | 2106067-01AMSD | Batch ID: | 100868 | TestNo: | SW8260D | Units: | mg/L | | | | |
|-----------------------------|----------------|-----------|---------------|----------------|---------------------|------------|----------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | GCMS5_210609A | Analysis Date: | 6/9/2021 5:56:00 PM | Prep Date: | 6/9/2021 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.764 | 0.0100 | 0.232 | 0.765 | -0.280 | 81 | 122 | 8.11 | 20 | S |
| Ethylbenzene | | 0.237 | 0.0100 | 0.232 | 0.00313 | 101 | 80 | 120 | 7.05 | 20 | |
| m,p-Xylene | | 0.498 | 0.0200 | 0.464 | 0.0300 | 101 | 80 | 120 | 6.28 | 20 | |
| o-Xylene | | 0.263 | 0.0100 | 0.232 | 0.0357 | 97.8 | 80 | 120 | 8.04 | 20 | |
| Toluene | | 0.323 | 0.0200 | 0.232 | 0.127 | 84.8 | 80 | 120 | 7.99 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | | 1990 | | 2000 | | 99.5 | 72 | 119 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | | 2020 | | 2000 | | 101 | 76 | 119 | 0 | 0 | |
| Surr: Dibromofluoromethane | | 1990 | | 2000 | | 99.5 | 85 | 115 | 0 | 0 | |
| Surr: Toluene-d8 | | 1950 | | 2000 | | 97.6 | 81 | 120 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Page 4 of 4



October 01, 2021

Brad Stephenson
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (720) 974-0935
FAX (432) 686-0186

Order No.: 2109187

RE: Hobbs Tank

Dear Brad Stephenson:

DHL Analytical, Inc. received 2 sample(s) on 9/24/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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| Analytical Report 2109187 | 7 |
| AnalyticalQCSummaryReport 2109187 | 9 |



2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

Web: www.dhlanalytical.comEmail: login@dhlanalytical.com

CHAIN-OF-CUSTODY

PAGE 1 OF 1

| | | | | | | | | | |
|---|--------------------|--------------|-----------------|---|---------------------------------|----------------|-----------------|----------|------------|
| CLIENT: <u>GHD/HollyFrontier</u> | | | | DATE: <u>9/23/21</u> | LABORATORY USE ONLY | | | | |
| ADDRESS: | | | | PO#: | DHL WORKORDER #: <u>2109187</u> | | | | |
| PHONE: <u>303 941-6156</u> EMAIL: <u>DYAD, STEPHENSON</u> DATA REPORTED TO: <u>B STEPHENSON</u> @GHP.COM | | | | PROJECT LOCATION OR NAME: <u>HOBBS TANK</u> | | | | | |
| ADDITIONAL REPORT COPIES TO: <u>J CLOPP</u> | | | | CLIENT PROJECT # <u>11224355</u> | | | | | |
| Authorize 5% surcharge for TRRP report? <input type="checkbox"/> Yes <input type="checkbox"/> No | Lab Use Only | W=WATER | SE=SEDIMENT | PRESERVATION | COLLECTOR: | FIELD NOTES | | | |
| | | L=LIQUID | P=PAINT | | | | | | |
| S=SOIL | SL=SLUDGE | HAZARDOUS | NON-HAZARDOUS | METALS | ANALYSIS | | | | |
| SO=SOLID | | ICP | UNPRESERVED | MEASUREMENTS | | | | | |
| Field Sample I.D. | | DHL Lab # | Collection Date | Collection Time | Matrix | Container Type | # of Containers | ANALYSES | |
| <u>#TRW-1</u> <u>TRIP</u> | | <u>01</u> | <u>9/22/21</u> | <u>0800</u> | | | <u>8</u> | <u>X</u> | |
| | | <u>02</u> | | | | | <u>2</u> | <u>X</u> | <u>GRC</u> |
| <p>Relinquished By: (Sign) <u>DHL</u> DATE/TIME <u>9/23/21 11:30</u> Received by: <u>TO FED EX</u></p> <p>Relinquished By: (Sign) <u>Fed Ex</u> DATE/TIME <u>9/24/21 1006</u> Received by: <u>E</u></p> <p>Relinquished By: (Sign) DATE/TIME Received by: <u></u></p> | | | | | | | | | |
| <p>TURN AROUND TIME (CALL FIRST FOR RUSH)</p> <p>RUSH-1 DAY <input type="checkbox"/> RUSH-2 DAY <input type="checkbox"/> RUSH-3 DAY <input type="checkbox"/></p> <p>NORMAL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>DUE DATE <input type="checkbox"/></p> | | | | | | | | | |
| <p>LABORATORY USE ONLY</p> <p>RECEIVING TEMP (°C): <u>5.5</u> THERM #: <u>78</u></p> <p>CUSTODY SEALS: <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED</p> <p>CARRIER: <input type="checkbox"/> LSO <input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> COURIER <input type="checkbox"/> OTHER <input type="checkbox"/> HAND DELIVERED</p> | | | | | | | | | |

 DHL DISPOSAL @ 5.00 each Return

DHL COC REV 3 | MAR 2021

ORIGIN ID:LAAA (303) 941-6156
GHD
14998 W 6TH AVE STE 800
GOLDEN, CO 80401
UNITED STATES US

SHIP DATE: 23SEP21
ACTWGT: 18.15 LB
CAD: 6754094/SSF02220
DIMS: 17x16x9 IN

BILL THIRD PARTY

卷之三十一 1992年-2008年 08/22

TO DHL

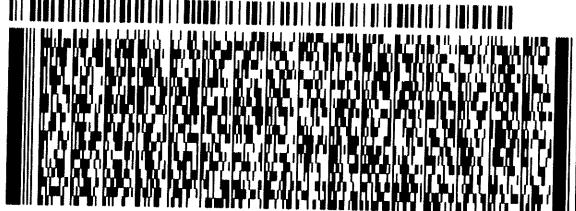
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222
INU:
RQ:

REF:

DEPT:



The FedEx Express logo consists of the word "FedEx" in its signature bold, italicized font above the word "Express". Below "Express" is a large, bold, black square containing a white stylized letter "E". To the right of the "E" is a vertical bar with the numbers "110002010202" printed vertically.

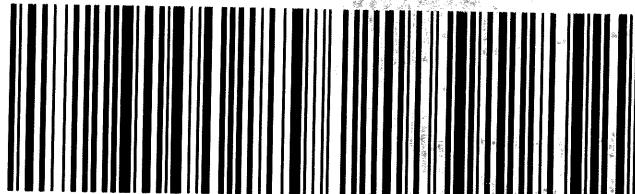
REL#
3785346

TRK# 2840 9014 0172
0201

**FRI - 24 SEP 10:30A
PRIORITY OVERNIGHT**

XH BSMA

TX-US AUS



DHL Analytical, Inc.

Sample Receipt Checklist

Client Name GHD

Date Received: 9/24/2021

Work Order Number 2109187

Received by: EL

Checklist completed by: 
Signature

9/24/2021

Date

Reviewed by: 

Initials

9/24/2021

Date

Carrier name: FedEx 1day

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 5.5 °C |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| | Adjusted? _____ | Checked by _____ | |
| Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| | Adjusted? _____ | Checked by _____ | |

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

_____Corrective Action: _____

DHL Analytical, Inc.

Date: 01-Oct-21

CLIENT: GHD
Project: Hobbs Tank
Lab Order: 2109187

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

DHL Analytical, Inc.

Date: 01-Oct-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11224355
Lab Order: 2109187

Client Sample ID: HTRW-1
Lab ID: 2109187-01
Collection Date: 09/22/21 08:00 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------------|----------|---------|------|-------|---------------------|-------------------|
| TPH EXTRACTABLE BY GC - WATER | M8015D | | | | | Analyst: BTJ | |
| TPH-DRO C10-C28 | <0.551 | 0.551 | 0.735 | | mg/L | 1 | 09/28/21 11:38 AM |
| Surr: Isopropylbenzene | 48.9 | 0 | 47-142 | | %REC | 1 | 09/28/21 11:38 AM |
| Surr: Octacosane | 88.7 | 0 | 51-124 | | %REC | 1 | 09/28/21 11:38 AM |
| TPH PURGEABLE BY GC - WATER | M8015V | | | | | Analyst: BTJ | |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 09/27/21 04:16 PM |
| Surr: Tetrachlorethene | 111 | 0 | 74-138 | | %REC | 1 | 09/27/21 04:16 PM |
| 8260 WATER VOLATILES BY GC/MS | SW8260D | | | | | Analyst: SNM | |
| Benzene | 0.00120 | 0.000300 | 0.00100 | | mg/L | 1 | 09/27/21 05:06 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/27/21 05:06 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/27/21 05:06 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/27/21 05:06 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/27/21 05:06 PM |
| Surr: 1,2-Dichloroethane-d4 | 95.0 | 0 | 72-119 | | %REC | 1 | 09/27/21 05:06 PM |
| Surr: 4-Bromofluorobenzene | 82.9 | 0 | 76-119 | | %REC | 1 | 09/27/21 05:06 PM |
| Surr: Dibromofluoromethane | 106 | 0 | 85-115 | | %REC | 1 | 09/27/21 05:06 PM |
| Surr: Toluene-d8 | 95.5 | 0 | 81-120 | | %REC | 1 | 09/27/21 05:06 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 01-Oct-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11224355
Lab Order: 2109187

Client Sample ID: Trip
Lab ID: 2109187-02
Collection Date: 09/22/21
Matrix: TRIP BLANK

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| TPH PURGEABLE BY GC - WATER | | M8015V | | | | | Analyst: BTJ |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 09/27/21 12:38 PM |
| Surr: Tetrachlorethane | 114 | 0 | 74-138 | | %REC | 1 | 09/27/21 12:38 PM |
| 8260 WATER VOLATILES BY GC/MS | | SW8260D | | | | | Analyst: SNM |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/27/21 02:57 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/27/21 02:57 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/27/21 02:57 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/27/21 02:57 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/27/21 02:57 PM |
| Surr: 1,2-Dichloroethane-d4 | 93.2 | 0 | 72-119 | | %REC | 1 | 09/27/21 02:57 PM |
| Surr: 4-Bromofluorobenzene | 84.6 | 0 | 76-119 | | %REC | 1 | 09/27/21 02:57 PM |
| Surr: Dibromofluoromethane | 104 | 0 | 85-115 | | %REC | 1 | 09/27/21 02:57 PM |
| Surr: Toluene-d8 | 96.2 | 0 | 81-120 | | %REC | 1 | 09/27/21 02:57 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 01-Oct-21

CLIENT: GHD
Work Order: 2109187
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT**RunID:** GC15_210928A

The QC data in batch 102198 applies to the following samples: 2109187-01C

| Sample ID: | MB-102198 | Batch ID: | 102198 | TestNo: | M8015D | | Units: | mg/L | | | |
|------------------------|-------------|-----------|--------------|--------------------------------------|---------|------|------------|-----------|-------|----------|------|
| SampType: | MBLK | Run ID: | GC15_210928A | Analysis Date: 9/28/2021 9:46:58 AM | | | Prep Date: | 9/27/2021 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | <0.300 | 0.400 | | | | | | | | |
| Surr: Isopropylbenzene | | 0.0503 | | 0.1000 | | 50.3 | 47 | 142 | | | |
| Surr: Octacosane | | 0.0921 | | 0.1000 | | 92.1 | 51 | 124 | | | |
| Sample ID: | LCS-102198 | Batch ID: | 102198 | TestNo: | M8015D | | Units: | mg/L | | | |
| SampType: | LCS | Run ID: | GC15_210928A | Analysis Date: 9/28/2021 9:56:02 AM | | | Prep Date: | 9/27/2021 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 1.02 | 0.400 | 1.250 | 0 | 81.4 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 0.0526 | | 0.1000 | | 52.6 | 47 | 142 | | | |
| Surr: Octacosane | | 0.0911 | | 0.1000 | | 91.1 | 51 | 124 | | | |
| Sample ID: | LCSD-102198 | Batch ID: | 102198 | TestNo: | M8015D | | Units: | mg/L | | | |
| SampType: | LCSD | Run ID: | GC15_210928A | Analysis Date: 9/28/2021 10:05:05 AM | | | Prep Date: | 9/27/2021 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 1.01 | 0.400 | 1.250 | 0 | 81.0 | 50 | 114 | 0.437 | 30 | |
| Surr: Isopropylbenzene | | 0.0515 | | 0.1000 | | 51.5 | 47 | 142 | 0 | 0 | |
| Surr: Octacosane | | 0.0941 | | 0.1000 | | 94.1 | 51 | 124 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Page 1 of 4

CLIENT: GHD
Work Order: 2109187
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_210927A

The QC data in batch 102197 applies to the following samples: 2109187-01B, 2109187-02B

| | | | | | | | | | | |
|---|----------------------------|---|-----------------------------|---|-----|-----|-----|-------|----|--|
| Sample ID: LCS-102197 | Batch ID: 102197 | TestNo: M8015V | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: GC4_210927A | Analysis Date: 9/27/2021 10:36:56 AM | Prep Date: 9/27/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Surr: Tetrachlorethene | 2.70 | 0.100 | 2.500 | 0 | 108 | 67 | 136 | | | |
| Surr: Tetrachlorethene | 0.428 | | 0.4000 | | 107 | 74 | 138 | | | |
| Sample ID: LCSD-102197 | Batch ID: 102197 | TestNo: M8015V | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: GC4_210927A | Analysis Date: 9/27/2021 11:01:05 AM | Prep Date: 9/27/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Surr: Tetrachlorethene | 2.69 | 0.100 | 2.500 | 0 | 108 | 67 | 136 | 0.450 | 30 | |
| Surr: Tetrachlorethene | 0.428 | | 0.4000 | | 107 | 74 | 138 | 0 | 0 | |
| Sample ID: MB-102197 | Batch ID: 102197 | TestNo: M8015V | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: GC4_210927A | Analysis Date: 9/27/2021 12:13:14 PM | Prep Date: 9/27/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Surr: Tetrachlorethene | <0.0600 | 0.100 | | | | | | | | |
| Surr: Tetrachlorethene | 0.460 | | 0.4000 | | | 115 | 74 | 138 | | |
| Sample ID: 2109167-01BMS | Batch ID: 102197 | TestNo: M8015V | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: GC4_210927A | Analysis Date: 9/27/2021 4:40:36 PM | Prep Date: 9/27/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Surr: Tetrachlorethene | 2.67 | 0.100 | 2.500 | 0 | 107 | 67 | 136 | | | |
| Surr: Tetrachlorethene | 0.472 | | 0.4000 | | 118 | 74 | 138 | | | |
| Sample ID: 2109167-01BMSD | Batch ID: 102197 | TestNo: M8015V | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: GC4_210927A | Analysis Date: 9/27/2021 5:04:09 PM | Prep Date: 9/27/2021 | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Gasoline Range Organics | | | | | | | | | | |
| Surr: Tetrachlorethene | 2.83 | 0.100 | 2.500 | 0 | 113 | 67 | 136 | 5.71 | 30 | |
| Surr: Tetrachlorethene | 0.479 | | 0.4000 | | 120 | 74 | 138 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: GHD
Work Order: 2109187
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_210927A

The QC data in batch 102208 applies to the following samples: 2109187-01A, 2109187-02A

| Sample ID: LCS-102208 | Batch ID: 102208 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|-----------------------|--------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS5_210927A | Analysis Date: 9/27/2021 12:26:00 PM | Prep Date: 9/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.0256 | 0.00100 | 0.0232 | 0 | 111 | 81 | 122 | | | |
| Ethylbenzene | 0.0269 | 0.00100 | 0.0232 | 0 | 116 | 80 | 120 | | | |
| m,p-Xylene | 0.0555 | 0.00200 | 0.0464 | 0 | 120 | 80 | 120 | | | |
| o-Xylene | 0.0279 | 0.00100 | 0.0232 | 0 | 120 | 80 | 120 | | | |
| Toluene | 0.0271 | 0.00200 | 0.0232 | 0 | 117 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 181 | | 200.0 | | 90.4 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 168 | | 200.0 | | 83.9 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 208 | | 200.0 | | 104 | 85 | 115 | | | |
| Surr: Toluene-d8 | 190 | | 200.0 | | 95.0 | 81 | 120 | | | |

| Sample ID: MB-102208 | Batch ID: 102208 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS5_210927A | Analysis Date: 9/27/2021 2:05:00 PM | Prep Date: 9/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | <0.000300 | 0.00100 | | | | | | | | |
| Ethylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| m,p-Xylene | <0.000600 | 0.00200 | | | | | | | | |
| o-Xylene | <0.000300 | 0.00100 | | | | | | | | |
| Toluene | <0.000600 | 0.00200 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 183 | | 200.0 | | 91.7 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 169 | | 200.0 | | 84.3 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 210 | | 200.0 | | 105 | 85 | 115 | | | |
| Surr: Toluene-d8 | 191 | | 200.0 | | 95.5 | 81 | 120 | | | |

| Sample ID: 2109187-01AMS | Batch ID: 102208 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS5_210927A | Analysis Date: 9/27/2021 5:31:00 PM | Prep Date: 9/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.255 | 0.0100 | 0.232 | 0 | 110 | 81 | 122 | | | |
| Ethylbenzene | 0.267 | 0.0100 | 0.232 | 0 | 115 | 80 | 120 | | | |
| m,p-Xylene | 0.537 | 0.0200 | 0.464 | 0 | 116 | 80 | 120 | | | |
| o-Xylene | 0.270 | 0.0100 | 0.232 | 0 | 117 | 80 | 120 | | | |
| Toluene | 0.259 | 0.0200 | 0.232 | 0 | 111 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 1860 | | 2000 | | 93.1 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 1680 | | 2000 | | 84.1 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 2100 | | 2000 | | 105 | 85 | 115 | | | |
| Surr: Toluene-d8 | 1890 | | 2000 | | 94.5 | 81 | 120 | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: GHD
Work Order: 2109187
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_210927A

| Sample ID: | 2109187-01AMSD | Batch ID: | 102208 | TestNo: | SW8260D | Units: | mg/L | | | | |
|-----------------------------|----------------|-----------|---------------|-------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | GCMS5_210927A | Analysis Date: 9/27/2021 5:57:00 PM | | Prep Date: | 9/27/2021 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.244 | 0.0100 | 0.232 | 0 | 105 | 81 | 122 | 4.31 | 20 | |
| Ethylbenzene | | 0.257 | 0.0100 | 0.232 | 0 | 111 | 80 | 120 | 3.87 | 20 | |
| m,p-Xylene | | 0.518 | 0.0200 | 0.464 | 0 | 112 | 80 | 120 | 3.46 | 20 | |
| o-Xylene | | 0.260 | 0.0100 | 0.232 | 0 | 112 | 80 | 120 | 3.69 | 20 | |
| Toluene | | 0.250 | 0.0200 | 0.232 | 0 | 108 | 80 | 120 | 3.22 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | | 1860 | | 2000 | | 92.8 | 72 | 119 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | | 1710 | | 2000 | | 85.4 | 76 | 119 | 0 | 0 | |
| Surr: Dibromofluoromethane | | 2080 | | 2000 | | 104 | 85 | 115 | 0 | 0 | |
| Surr: Toluene-d8 | | 1900 | | 2000 | | 94.8 | 81 | 120 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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December 10, 2021

Brad Stephenson
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (720) 974-0935
FAX (432) 686-0186

Order No.: 2112039

RE: Hobbs Tank

Dear Brad Stephenson:

DHL Analytical, Inc. received 5 sample(s) on 12/3/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in red ink that reads "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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| AnalyticalQCSummaryReport 2112039 | 12 |

ORIGIN ID:DENA (000) 000-0000
 GHD
 14898 W 6TH AVE STE 800
 GOLDEN, CO 80401
 UNITED STATES US

SHIP DATE: 02DEC21
 ACTWGT: 34.20 LB
 CAD: 6992847/SSF02220
 DIMS: 24x14x13 IN
 BILL THIRD PARTY

Part # 156237 435456621 EXP. 09/22

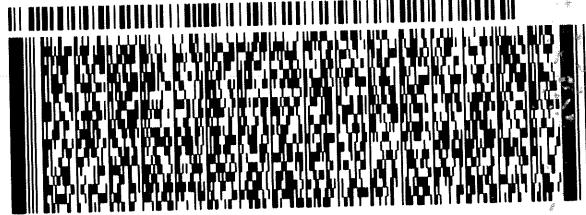
TO DHL ANALYTICAL

2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222
 INO:
 PO:

REF:
 DEPT:



FedEx

Express

AN L0112221C1



REL#
 3765346

1 of 2

TRK# 2869 8200 3483
 0201

MASTER

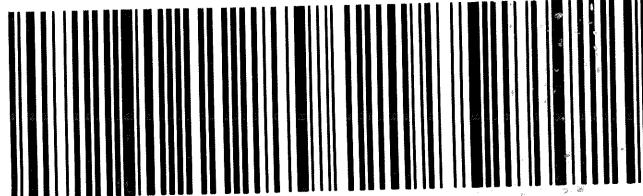
XA BSMA

FRI - 03 DEC 11:30A
 PRIORITY OVERNIGHT

AHS

78664

TX-US AUS



DHL Analytical, Inc.

Sample Receipt Checklist

Client Name GHD

Date Received: 12/3/2021

Work Order Number 2112039

Received by: EL

Checklist completed by: 
Signature

12/3/2021

Reviewed by



12/3/2021

Date

Initials

Date

Carrier name: FedEx 1day

| | | | |
|---|---|--|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 1.5 °C |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| | Adjusted? _____ | Checked by _____ | |
| Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| | Adjusted? _____ | Checked by _____ | |

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: One VOA vial for Trip Blank broken in transit.

Corrective Action: Proceed with analysis using unbroken vials.

DHL Analytical, Inc.

Date: 10-Dec-21

CLIENT: GHD
Project: Hobbs Tank
Lab Order: 2112039

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For DRO Analysis, the recovery of surrogate Isopropylbenzene for four samples, the Laboratory Control Spike and Laboratory Control Spike Duplicate (LCS/LCSD-103080) was below the method control limits. These are flagged accordingly in the Analytical Data Report and the QC Summary Report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

DHL Analytical, Inc.**Date:** 10-Dec-21

CLIENT: GHD **Client Sample ID:** HTRW-1
Project: Hobbs Tank **Lab ID:** 2112039-01
Project No: 11224355 **Collection Date:** 12/01/21 12:00 PM
Lab Order: 2112039 **Matrix:** AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------|---------|------|-------|----|-------------------|
| TPH EXTRACTABLE BY GC - WATER | | | | | | | |
| TPH-DRO C10-C28 | <0.152 | 0.152 | 0.190 | | mg/L | 1 | 12/08/21 12:50 PM |
| Surr: Isopropylbenzene | 38.1 | 0 | 47-142 | S | %REC | 1 | 12/08/21 12:50 PM |
| Surr: Octacosane | 78.9 | 0 | 51-124 | | %REC | 1 | 12/08/21 12:50 PM |
| TPH PURGEABLE BY GC - WATER | | | | | | | |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 12/07/21 04:22 PM |
| Surr: Tetrachlorethane | 114 | 0 | 74-138 | | %REC | 1 | 12/07/21 04:22 PM |
| 8260 WATER VOLATILES BY GC/MS | | | | | | | |
| SW8260D | | | | | | | |
| Benzene | 0.00249 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 05:35 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 05:35 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 05:35 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 05:35 PM |
| Toluene | 0.00104 | 0.000600 | 0.00200 | J | mg/L | 1 | 12/06/21 05:35 PM |
| Surr: 1,2-Dichloroethane-d4 | 91.8 | 0 | 72-119 | | %REC | 1 | 12/06/21 05:35 PM |
| Surr: 4-Bromofluorobenzene | 86.7 | 0 | 76-119 | | %REC | 1 | 12/06/21 05:35 PM |
| Surr: Dibromofluoromethane | 100 | 0 | 85-115 | | %REC | 1 | 12/06/21 05:35 PM |
| Surr: Toluene-d8 | 88.0 | 0 | 81-120 | | %REC | 1 | 12/06/21 05:35 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 10-Dec-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11224355
Lab Order: 2112039

Client Sample ID: MW-5
Lab ID: 2112039-02
Collection Date: 12/01/21 01:00 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| TPH EXTRACTABLE BY GC - WATER | | M8015D | | | | | Analyst: BTJ |
| TPH-DRO C10-C28 | <0.147 | 0.147 | 0.183 | | mg/L | 1 | 12/08/21 12:59 PM |
| Surr: Isopropylbenzene | 41.2 | 0 | 47-142 | S | %REC | 1 | 12/08/21 12:59 PM |
| Surr: Octacosane | 82.4 | 0 | 51-124 | | %REC | 1 | 12/08/21 12:59 PM |
| TPH PURGEABLE BY GC - WATER | | M8015V | | | | | Analyst: BTJ |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 12/07/21 04:45 PM |
| Surr: Tetrachlorethene | 112 | 0 | 74-138 | | %REC | 1 | 12/07/21 04:45 PM |
| 8260 WATER VOLATILES BY GC/MS | | SW8260D | | | | | Analyst: JVR |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 04:22 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 04:22 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 04:22 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 04:22 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 04:22 PM |
| Surr: 1,2-Dichloroethane-d4 | 91.1 | 0 | 72-119 | | %REC | 1 | 12/06/21 04:22 PM |
| Surr: 4-Bromofluorobenzene | 88.4 | 0 | 76-119 | | %REC | 1 | 12/06/21 04:22 PM |
| Surr: Dibromofluoromethane | 102 | 0 | 85-115 | | %REC | 1 | 12/06/21 04:22 PM |
| Surr: Toluene-d8 | 88.9 | 0 | 81-120 | | %REC | 1 | 12/06/21 04:22 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 10-Dec-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11224355
Lab Order: 2112039

Client Sample ID: MW-5D
Lab ID: 2112039-03
Collection Date: 12/01/21 01:00 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| TPH EXTRACTABLE BY GC - WATER | | M8015D | | | | | Analyst: BTJ |
| TPH-DRO C10-C28 | <0.147 | 0.147 | 0.184 | | mg/L | 1 | 12/08/21 01:08 PM |
| Surr: Isopropylbenzene | 43.2 | 0 | 47-142 | S | %REC | 1 | 12/08/21 01:08 PM |
| Surr: Octacosane | 83.9 | 0 | 51-124 | | %REC | 1 | 12/08/21 01:08 PM |
| TPH PURGEABLE BY GC - WATER | | M8015V | | | | | Analyst: BTJ |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 12/07/21 05:09 PM |
| Surr: Tetrachlorethene | 112 | 0 | 74-138 | | %REC | 1 | 12/07/21 05:09 PM |
| 8260 WATER VOLATILES BY GC/MS | | SW8260D | | | | | Analyst: JVR |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 04:46 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 04:46 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 04:46 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 04:46 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 04:46 PM |
| Surr: 1,2-Dichloroethane-d4 | 92.5 | 0 | 72-119 | | %REC | 1 | 12/06/21 04:46 PM |
| Surr: 4-Bromofluorobenzene | 86.1 | 0 | 76-119 | | %REC | 1 | 12/06/21 04:46 PM |
| Surr: Dibromofluoromethane | 100 | 0 | 85-115 | | %REC | 1 | 12/06/21 04:46 PM |
| Surr: Toluene-d8 | 88.4 | 0 | 81-120 | | %REC | 1 | 12/06/21 04:46 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 10-Dec-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11224355
Lab Order: 2112039

Client Sample ID: MW-4
Lab ID: 2112039-04
Collection Date: 12/01/21 01:45 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------------|----------|---------|------|-------|---------------------|-------------------|
| TPH EXTRACTABLE BY GC - WATER | M8015D | | | | | Analyst: BTJ | |
| TPH-DRO C10-C28 | 0.179 | 0.148 | 0.184 | J | mg/L | 1 | 12/08/21 01:17 PM |
| Surr: Isopropylbenzene | 43.5 | 0 | 47-142 | S | %REC | 1 | 12/08/21 01:17 PM |
| Surr: Octacosane | 87.7 | 0 | 51-124 | | %REC | 1 | 12/08/21 01:17 PM |
| TPH PURGEABLE BY GC - WATER | M8015V | | | | | Analyst: BTJ | |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 12/07/21 05:33 PM |
| Surr: Tetrachlorethene | 107 | 0 | 74-138 | | %REC | 1 | 12/07/21 05:33 PM |
| 8260 WATER VOLATILES BY GC/MS | SW8260D | | | | | Analyst: JVR | |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 05:10 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 05:10 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 05:10 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 05:10 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 05:10 PM |
| Surr: 1,2-Dichloroethane-d4 | 89.9 | 0 | 72-119 | | %REC | 1 | 12/06/21 05:10 PM |
| Surr: 4-Bromofluorobenzene | 84.3 | 0 | 76-119 | | %REC | 1 | 12/06/21 05:10 PM |
| Surr: Dibromofluoromethane | 99.2 | 0 | 85-115 | | %REC | 1 | 12/06/21 05:10 PM |
| Surr: Toluene-d8 | 89.2 | 0 | 81-120 | | %REC | 1 | 12/06/21 05:10 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 10-Dec-21

CLIENT: GHD
Project: Hobbs Tank
Project No: 11224355
Lab Order: 2112039

Client Sample ID: Trip
Lab ID: 2112039-05
Collection Date: 12/01/21
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| TPH PURGEABLE BY GC - WATER | | M8015V | | | | | Analyst: BTJ |
| Gasoline Range Organics | <0.0600 | 0.0600 | 0.100 | | mg/L | 1 | 12/07/21 01:42 PM |
| Surr: Tetrachlorethane | 127 | 0 | 74-138 | | %REC | 1 | 12/07/21 01:42 PM |
| 8260 WATER VOLATILES BY GC/MS | | SW8260D | | | | | Analyst: JVR |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 01:06 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 01:06 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 01:06 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 12/06/21 01:06 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 12/06/21 01:06 PM |
| Surr: 1,2-Dichloroethane-d4 | 91.4 | 0 | 72-119 | | %REC | 1 | 12/06/21 01:06 PM |
| Surr: 4-Bromofluorobenzene | 85.6 | 0 | 76-119 | | %REC | 1 | 12/06/21 01:06 PM |
| Surr: Dibromofluoromethane | 99.9 | 0 | 85-115 | | %REC | 1 | 12/06/21 01:06 PM |
| Surr: Toluene-d8 | 89.5 | 0 | 81-120 | | %REC | 1 | 12/06/21 01:06 PM |

| | | |
|--------------------|----|--|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL |
| | ND | Not Detected at the Method Detection Limit |
| | S | Spike Recovery outside control limits |

- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

DHL Analytical, Inc.

Date: 10-Dec-21

CLIENT: GHD
Work Order: 2112039
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT**RunID:** GC15_211208A

The QC data in batch 103080 applies to the following samples: 2112039-01C, 2112039-02C, 2112039-03C, 2112039-04C

| Sample ID: | MB-103080 | Batch ID: | 103080 | TestNo: | M8015D | Units: | mg/L | | | | |
|------------------------|-------------|-----------|--------------|--------------------------------------|---------|------------|-----------|-----------|-------|----------|------|
| SampType: | MBLK | Run ID: | GC15_211208A | Analysis Date: 12/8/2021 11:29:02 AM | | Prep Date: | 12/6/2021 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | <0.0800 | 0.100 | | | | | | | | |
| Surr: Isopropylbenzene | | 0.0543 | | 0.1000 | | 54.3 | 47 | 142 | | | |
| Surr: Octacosane | | 0.0849 | | 0.1000 | | 84.9 | 51 | 124 | | | |
| Sample ID: | LCS-103080 | Batch ID: | 103080 | TestNo: | M8015D | Units: | mg/L | | | | |
| SampType: | LCS | Run ID: | GC15_211208A | Analysis Date: 12/8/2021 11:38:06 AM | | Prep Date: | 12/6/2021 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 0.876 | 0.100 | 1.250 | 0 | 70.1 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 0.0434 | | 0.1000 | | 43.4 | 47 | 142 | | | S |
| Surr: Octacosane | | 0.0827 | | 0.1000 | | 82.7 | 51 | 124 | | | |
| Sample ID: | LCSD-103080 | Batch ID: | 103080 | TestNo: | M8015D | Units: | mg/L | | | | |
| SampType: | LCSD | Run ID: | GC15_211208A | Analysis Date: 12/8/2021 11:47:09 AM | | Prep Date: | 12/6/2021 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 0.878 | 0.100 | 1.250 | 0 | 70.2 | 50 | 114 | 0.194 | 30 | |
| Surr: Isopropylbenzene | | 0.0427 | | 0.1000 | | 42.7 | 47 | 142 | 0 | 0 | S |
| Surr: Octacosane | | 0.0815 | | 0.1000 | | 81.5 | 51 | 124 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Page 1 of 4

CLIENT: GHD
Work Order: 2112039
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_211207A

The QC data in batch 103093 applies to the following samples: 2112039-01B, 2112039-02B, 2112039-03B, 2112039-04B, 2112039-05B

| | | | | | | | | | | | | |
|---|----------------------------|---|-----------------------------|---------|-------|--------|---|-----|----|-----|------|----|
| Sample ID: LCS-103093 | Batch ID: 103093 | TestNo: M8015V | Units: mg/L | | | | | | | | | |
| SampType: LCS | Run ID: GC4_211207A | Analysis Date: 12/7/2021 11:24:01 AM | Prep Date: 12/7/2021 | | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | | |
| Gasoline Range Organics | | | | 2.59 | 0.100 | 2.500 | 0 | 104 | 67 | 136 | | |
| Surrogate: Tetrachlorethene | | | | 0.417 | | 0.4000 | | 104 | 74 | 138 | | |
| Sample ID: LCSD-103093 Batch ID: 103093 TestNo: M8015V Units: mg/L | | | | | | | | | | | | |
| SampType: LCSD | Run ID: GC4_211207A | Analysis Date: 12/7/2021 11:47:25 AM | Prep Date: 12/7/2021 | | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | | |
| Gasoline Range Organics | | | | 2.55 | 0.100 | 2.500 | 0 | 102 | 67 | 136 | 1.36 | 30 |
| Surrogate: Tetrachlorethene | | | | 0.433 | | 0.4000 | | 108 | 74 | 138 | 0 | 0 |
| Sample ID: MB-103093 Batch ID: 103093 TestNo: M8015V Units: mg/L | | | | | | | | | | | | |
| SampType: MBLK | Run ID: GC4_211207A | Analysis Date: 12/7/2021 12:55:41 PM | Prep Date: 12/7/2021 | | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | | |
| Gasoline Range Organics | | | | <0.0600 | 0.100 | | | | | | | |
| Surrogate: Tetrachlorethene | | | | 0.470 | | 0.4000 | | 118 | 74 | 138 | | |
| Sample ID: 2112039-04BMS Batch ID: 103093 TestNo: M8015V Units: mg/L | | | | | | | | | | | | |
| SampType: MS | Run ID: GC4_211207A | Analysis Date: 12/7/2021 5:56:56 PM | Prep Date: 12/7/2021 | | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | | |
| Gasoline Range Organics | | | | 2.55 | 0.100 | 2.500 | 0 | 102 | 67 | 136 | | |
| Surrogate: Tetrachlorethene | | | | 0.456 | | 0.4000 | | 114 | 74 | 138 | | |
| Sample ID: 2112039-04BMSD Batch ID: 103093 TestNo: M8015V Units: mg/L | | | | | | | | | | | | |
| SampType: MSD | Run ID: GC4_211207A | Analysis Date: 12/7/2021 6:20:15 PM | Prep Date: 12/7/2021 | | | | | | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | | | |
| Gasoline Range Organics | | | | 2.68 | 0.100 | 2.500 | 0 | 107 | 67 | 136 | 4.92 | 30 |
| Surrogate: Tetrachlorethene | | | | 0.467 | | 0.4000 | | 117 | 74 | 138 | 0 | 0 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Page 2 of 4

CLIENT: GHD
Work Order: 2112039
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_211206A

The QC data in batch 103086 applies to the following samples: 2112039-01A, 2112039-02A, 2112039-03A, 2112039-04A, 2112039-05A

| Sample ID: LCS-103086 | Batch ID: 103086 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|------------------------------|------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS7_211206A | Analysis Date: 12/6/2021 11:16:00 AM | Prep Date: 12/6/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.0236 | 0.00100 | 0.0232 | 0 | 102 | 81 | 122 | | | |
| Ethylbenzene | 0.0220 | 0.00100 | 0.0232 | 0 | 95.0 | 80 | 120 | | | |
| m,p-Xylene | 0.0442 | 0.00200 | 0.0464 | 0 | 95.3 | 80 | 120 | | | |
| o-Xylene | 0.0219 | 0.00100 | 0.0232 | 0 | 94.4 | 80 | 120 | | | |
| Toluene | 0.0238 | 0.00200 | 0.0232 | 0 | 102 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 181 | | 200.0 | | 90.6 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 167 | | 200.0 | | 83.3 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 194 | | 200.0 | | 97.0 | 85 | 115 | | | |
| Surr: Toluene-d8 | 176 | | 200.0 | | 87.9 | 81 | 120 | | | |

| Sample ID: MB-103086 | Batch ID: 103086 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS7_211206A | Analysis Date: 12/6/2021 12:17:00 PM | Prep Date: 12/6/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | <0.000300 | 0.00100 | | | | | | | | |
| Ethylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| m,p-Xylene | <0.000600 | 0.00200 | | | | | | | | |
| o-Xylene | <0.000300 | 0.00100 | | | | | | | | |
| Toluene | <0.000600 | 0.00200 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 182 | | 200.0 | | 90.9 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 175 | | 200.0 | | 87.4 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 197 | | 200.0 | | 98.7 | 85 | 115 | | | |
| Surr: Toluene-d8 | 178 | | 200.0 | | 88.8 | 81 | 120 | | | |

| Sample ID: 2112039-01AMS | Batch ID: 103086 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|---------------------------------|------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS7_211206A | Analysis Date: 12/6/2021 5:59:00 PM | Prep Date: 12/6/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.227 | 0.0100 | 0.232 | 0.00300 | 96.7 | 81 | 122 | | | |
| Ethylbenzene | 0.199 | 0.0100 | 0.232 | 0 | 85.9 | 80 | 120 | | | |
| m,p-Xylene | 0.397 | 0.0200 | 0.464 | 0 | 85.6 | 80 | 120 | | | |
| o-Xylene | 0.198 | 0.0100 | 0.232 | 0 | 85.6 | 80 | 120 | | | |
| Toluene | 0.226 | 0.0200 | 0.232 | 0 | 97.5 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 1830 | | 2000 | | 91.3 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 1660 | | 2000 | | 83.1 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 2030 | | 2000 | | 102 | 85 | 115 | | | |
| Surr: Toluene-d8 | 1710 | | 2000 | | 85.4 | 81 | 120 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAP certified |

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CLIENT: GHD
Work Order: 2112039
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_211206A

| Sample ID: | 2112039-01AMSD | Batch ID: | 103086 | TestNo: | SW8260D | Units: | mg/L | | | | |
|-----------------------------|----------------|-----------|---------------|-------------------------------------|---------|------------|-----------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | GCMS7_211206A | Analysis Date: 12/6/2021 6:24:00 PM | | Prep Date: | 12/6/2021 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.226 | 0.0100 | 0.232 | 0.00300 | 96.0 | 81 | 122 | 0.662 | 20 | |
| Ethylbenzene | | 0.203 | 0.0100 | 0.232 | 0 | 87.4 | 80 | 120 | 1.79 | 20 | |
| m,p-Xylene | | 0.405 | 0.0200 | 0.464 | 0 | 87.3 | 80 | 120 | 1.99 | 20 | |
| o-Xylene | | 0.201 | 0.0100 | 0.232 | 0 | 86.7 | 80 | 120 | 1.35 | 20 | |
| Toluene | | 0.225 | 0.0200 | 0.232 | 0 | 96.9 | 80 | 120 | 0.665 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | | 1870 | | 2000 | | 93.7 | 72 | 119 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | | 1680 | | 2000 | | 84.0 | 76 | 119 | 0 | 0 | |
| Surr: Dibromofluoromethane | | 1990 | | 2000 | | 99.3 | 85 | 115 | 0 | 0 | |
| Surr: Toluene-d8 | | 1730 | | 2000 | | 86.5 | 81 | 120 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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

CONDITIONS

Action 102824

CONDITIONS

| | |
|---|--|
| Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201 | OGRID: 15694 |
| | Action Number: 102824 |
| | Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------------|--|----------------|
| michael.buchanan | Review of the Site Status Report for 2021: Content Satisfactory 1. Recondition well HTRW-1 by Air Sparging technique. 2. Please continue to sample and monitor wells quarterly or semi-annually as appropriate. 3. Received the 2022 Annual Report. Please submit the 2023 Annual Report by or before April 1, 2024. | 8/10/2023 |