Site Status Report for 2024

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

HF Sinclair Corporation

March 28, 2025

→ The Power of Commitment

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1. Introduction

This 2024 status report is submitted by GHD Services Inc. (GHD), on behalf of HF Sinclair Corporation 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, and the Abatement Plan for the Site was submitted in October 2012. This report includes the status of groundwater monitoring and remediation at the Site for the period from March 2023 to December 2024.

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 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. The average yearly precipitation for the Hobbs area is 17.97 inches (in). In the Hobbs area, 2.9 in of total precipitation was recorded for 2024, the lowest amount of precipitation since 2018 which had recorded 1.5 in of total precipitation.

1.3 Site Geology and Hydrogeology

The surface soil 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 rock 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 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 and the groundwater gradient is approximately 0.001 ft/ft.

1.4 Summary of Site Conditions

Safety and Environmental Solutions Inc. (SESI) 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, down-gradient of the release. 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).

SESI 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 (2004) 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 micrograms per liter (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 has been 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 or during the time between EFR events. EFR was conducted at wells RW-1, HTRW-1, HTRW-2, and HTRW-3 in 2024.

Appendix A contains information on fluid levels and crude oil thickness since 2012. Wells MW-1 and RW-1 contained measurable oil sporadically from 2012 to March 2019. HTRW-1 contained measurable 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. Well MW-1 has remained dry since 2021 (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 (l08279) 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 east 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 three 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 at 2.49 µg/L, below the standard of 5 µg/L. During 2022, three consecutive sampling events out of four showed benzene below the NMWQCC standard. During 2023 and 2024 concentrations of benzene in HTRW-1 have been below the NMWQCC standard on six (6) consecutive sampling events in the original samples with one detection of a duplicate sample above the NMWQCC standard for benzene on September 27, 2023 (Table 1). The duplicate

sample was reviewed by Quality Assurance/Quality Control measures where an 11% difference in benzene concentrations was calculated, which meets acceptance criteria.

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 µg/L for benzene
- 1000 µg/L for toluene
- 700 µg/L for ethylbenzene
- 620 µg/L for total xylenes

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. The analyses showed none of these constituents were above NMWQCC standards in 2019 and 2020.

There appears be no 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 and not down-gradient of the site. 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 NMWQCC 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 NMWQCC standard is recovery well HTRW-1, which has not contained measurable crude oil since 2016.

2. Site Activities

Groundwater monitoring was conducted at the Site by GHD for 2023 in March, May, September, and November and for 2024 in March, June, September, and December. The groundwater monitoring included measurement of fluid levels in all monitoring wells and the recovery wells, and collection of groundwater samples for laboratory analysis for BTEX, total petroleum hydrocarbons-gasoline range organics (TPH-GRO), and total petroleum hydrocarbons-diesel range organics (TPH-DRO) from select wells per the approved July 26, 2023 work plan. Remediation activities for 2024 included EFR, deployment of ORC socks, and air injection at well HTRW-1; and EFR and deployment of ORC socks at wells RW-1 and HTRW-3.

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 2023 and 2024. Groundwater samples were collected on a semiannual basis from the monitor wells MW-4, and MW-5, and quarterly from the downgradient recovery well HTRW-1. Groundwater samples were not collected from monitoring wells MW-2 and MW-3 in 2023 and 2024, as the wells were dry or contained an insufficient amount of water for sample acquisition. Well RW-1 was sampled one time in September 2023 to assess the groundwater quality in the area and to only guide remediation efforts in the area of the tank and the release area. Wells MW-1, HTRW-2, HTRW-3 and HTRW-4 were not sampled in 2023 and 2024 as per the approved July 26, 2023 work plan. Appendix A shows historical fluid levels from 2012 to December 2024. Table 1 summarizes hydrocarbon analytical results and

groundwater elevations for 2023 and 2024. Appendix B summarizes historical analytical results from August 2004 to December 2024. As discussed below, crude oil was not detected in any well during 2024.

Prior to purging the wells and obtaining groundwater samples with a disposable bailer, fluid levels were measured in the wells using an oil/water level indicator. 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, Texas under chain of custody procedures. As discussed below, BTEX constituents were not detected above the NMWCC standards in any well during 2024.

March 2023

In March 2023, crude oil was not detected in any of the Site wells (Appendix A).

Water levels measured in March 2023 were lower than water levels measured in December 2022. Monitoring wells MW-1, MW-2 and MW-3 were measured as dry or had insufficient water volume for sampling. For the March 2023 monitoring period, the groundwater flow
(Figure 4) was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in March 2022).

The March 2023 hydrocarbon concentrations for each sampled well are shown in Table 1, Figure 12 and in Appendix B. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Only well HTRW-1 was sampled this quarter. The March 2023 laboratory report is contained Appendix D.

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

– Benzene was detected above the NMWQCC standard in well HTRW-1 at 21.5 µg/L in the original sample and 7.99 µg/L in the duplicate sample. Based on the QA/QC review, these data were flagged as J.
– Ethylbenzene, toluene, and total xylenes were not detected in well HTRW-1 above the NMWQCC standards.
– TPH-GRO was detected at 0.223 mg/L in the original sample and 0.189 mg/L in the duplicate sample for well HTRW-1.
– TPH-DRO was detected at 0.285 mg/L in the original sample and 0.282 mg/L in the duplicate sample for HTRW-1.

Concentrations of dissolved hydrocarbons in groundwater during the March 2023 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (Figure 12).

May 2023

In May 2023, crude oil was not detected in any of the Site wells (Appendix A).

Water levels measured in May 2023 were similar to the water levels measured in March 2023 and wells MW-1, MW-2 and MW-3 remained dry or had insufficient water volume for sampling. For the May 2023 monitoring period, the groundwater flow was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in June 2022), as previously observed (Figure 5).

The May 2023 hydrocarbon concentrations for each sampled well are shown in Table 1, Figure 12 and in Appendix B. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4, MW-5 and HTRW-1 were sampled this quarter. The May 2023 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 10.5 µg/L in the original sample and 10.2 µg/L in the duplicate sample.
– Ethylbenzene, toluene, and total xylenes were not detected in well HTRW-1 above the NMWQCC standards.
– TPH-GRO was detected in well HTRW-1 at 0.129 mg/L in the original sample and at less than 0.06 mg/L in the duplicate sample.
– TPH-DRO was detected at less than 0.149 mg/L in the original sample and 0.153 mg/L in the duplicate sample for well HTRW-1.

– None of the BTEX constituents were detected above the standards and TPH-GRO and TPH-DRO were not detected above the lower method limits in wells MW-4 and MW-5.

Concentrations of dissolved hydrocarbons in groundwater during the May 2023 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (Figure 12).

September 2023

In September 2023, crude oil was not detected in any of the Site wells (Appendix A).

Water levels measured in September 2023 were approximately 0.20 to 0.50 feet lower than water levels measured in May 2023 and wells MW-1, MW-2 and MW-3 were dry or had insufficient water for sampling. For the September 2023 monitoring period the groundwater flow (Figure 6) was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in September 2022). Due to MW-1 being dry for the last 8 quarters, a groundwater sample was collected for one time only from adjacent recovery well RW-1 in September 2023 to evaluate groundwater conditions immediately down gradient (i.e., east) of Tank 5201 release. RW-1 is not a monitoring well, but a 4-inch recovery well that was installed to recover the released crude oil in the area of the tank (crude oil has not been measured in RW-1 since March 2019). RW-1 was sampled one time only in September 2023 to access the groundwater quality in the area and to guide remediation efforts in the area down-gradient of the tank and the release area.

The September 2023 hydrocarbon concentrations for each sampled well are shown in Table 1, Figure 12 and in Appendix B. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4, MW-5 HTRW-1, and RW-1 were sampled this quarter. The September 2023 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 4.60 µg/L in the original sample and slightly above the NMWQCC standard at 5.81 µg/L in the duplicate sample.
– Toluene, ethyl benzene and total xylenes were not detected above the NMWQCC standards in HTRW-1.
– TPH-GRO was detected in well HTRW-1 at 0.081 mg/L in the original sample and 0.075 mg/L in the duplicate sample.
– TPH-DRO was not detected in well HTRW-1 above the lower method limit in both original and duplicate samples.
– None of the BTEX constituents were detected above the NMWQCC standards and TPH-GRO and TPH-DRO were not detected above the lower method limits in wells MW-4 and MW-5.
– Benzene was detected above the NMWQCC standard in the investigative sample collected from recovery well RW-1 at 77.3 µg/L. Toluene, ethylbenzene, and total xylenes were not detected above the NMWQCC standards in RW-1. TPH-GRO was not detected above the lower method limit and TPH-DRO was detected at 0.607 mg/L in this well.

Concentrations of dissolved hydrocarbons in groundwater during the September 2023 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (Figure 12).

November 2023

In November 2023, crude oil was not detected in any of the Site wells (Appendix A).

Water levels measured in November 2023 were similar to water levels measured in September 2023. For the November monitoring period the groundwater flow (Figure 7) was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in December 2022). Monitoring wells MW-1, MW-2 and MW-3 were measured as dry or had insufficient water volume for sampling.

The November 2023 hydrocarbon concentrations for each sampled well are shown in Table 1, Figure 12 and in Appendix B. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Only well HTRW-1 was sampled this quarter. The November 2023 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 3.50 µg/L for the original sample and at 3.60 µg/L in the duplicate sample.
– Toluene, ethyl benzene and total xylenes were not detected above the NMWQCC standards for well HTRW-1.
– TPH-GRO and TPH-DRO were not detected above the lower method reporting limits for well HTRW-1.

March 2024

In March 2024, crude oil was not detected in any of the Site wells (Appendix A).

Water levels measured in March 2024 were lower than water levels measured in November 2023 continuing the downward trend in lower water levels observed at the Site. Monitoring wells MW-1, MW-2 and MW-3 were measured as dry or had insufficient volume for sampling. For the March 2024 monitoring period, the groundwater flow (Figure 8) was towards the east with a gradient of 0.002 ft/ft (0.001 ft/ft in March 2023).

The March 2024 hydrocarbon concentrations for each sampled well are shown in Table 1, Figure 12 and in Appendix B. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Only well HTRW-1 was sampled this quarter. The March 2024 laboratory report is contained Appendix C.

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

– Benzene was not detected above the NMWQCC standard for well HTRW-1 at <1.0 µg/L for the original sample and at <1.0 µg/L for the duplicate sample.
– Ethylbenzene, toluene, and total xylenes were not detected for well HTRW-1 above the NMWQCC standards.
– TPH-GRO was not detected above the lower method reporting limit of 0.06 mg/L for the original sample and the duplicate sample for well HTRW-1.
– TPH-DRO was detected at 0.148 mg/L for the original sample and < 0.148 mg/L for the duplicate sample for HTRW-1.

June 2024

In June 2024, crude oil was not detected in any of the Site wells during this quarter or since June 2020.

Water levels measured in June 2024 were similar to the water levels measured in March 2024 and wells MW-1, MW-2 and MW-3 remained dry or had insufficient water volume to sample For the June 2024 monitoring period, the groundwater flow was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in June 2023), as previously observed (Figure 9).

The June 2024 hydrocarbon concentrations for each sampled well are shown in Table 1, Figure 12 and in Appendix B. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4, MW-5 and HTRW-1 were sampled this quarter. The June 2024 laboratory report is contained Appendix C.

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

– Benzene was detected below the NMWQCC standard for well HTRW-1 at 1.23 µg/L.
– Ethylbenzene, toluene, and total xylenes were not detected for well HTRW-1 above the NMWQCC standards.
– TPH-GRO was not detected for well HTRW-1 above the lower method limit of 0.06 mg/L.
– TPH-DRO was not detected for well HTRW-1 above the lower method limit of 0.148 mg/L.
– None of the BTEX constituents were detected above the NMWQCC standards and TPH-GRO and TPH-DRO were not detected above the lower method limits for wells MW-4 and MW-5.

Concentrations of dissolved hydrocarbons in groundwater during the June 2024 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (Figure 12).

September 2024

In September 2024, crude oil was not detected in any of the Site wells.(Appendix A).

Water levels measured in September 2024 were approximately 0.10 feet lower than water levels measured in June 2024 and wells MW-1, MW-2 and MW-3 were dry. For the September 2024 monitoring period the groundwater flow (Figure 10) was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in September 2023).

The September 2024 hydrocarbon concentrations for each sampled well are shown in Table 1, Figure 12 and in Appendix B. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4, MW-5, and HTRW-1 were sampled this quarter. The September 2024 laboratory report is contained Appendix C.

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

- Benzene and toluene were detected below the NMWQCC standards for well HTRW 1 at 2.14 µg/L and 1.21 µg/L respectively.
- Ethyl benzene and total xylenes were not detected above the NMWQCC standards for well HTRW-1.
- TPH-GRO was not detected for well HTRW-1 above the lower method limit of 0.06 mg/L for the sample.
- TPH-DRO was not detected for well HTRW-1 above the lower method limits of 0.148 mg/L and 0.147 mg/L for the sample.
- For Wells MW-4 and MW-5 none of the BTEX constituents were detected above the standards, TPH-GRO and TPH-DRO was not detected above the lower method limits in MW-5. For MW-4,

Concentrations of dissolved hydrocarbons in groundwater during the September 2024 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (Figure 12).

December 2024

In December 2024, crude oil was not measured in any of the Site wells (Appendix A).

Water levels measured in December 2024 were similar to water levels measured in September 2024 and wells MW-1, MW-2 and MW-3 were dry. For the December monitoring period the groundwater flow (Figure 11) was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in December 2023).

The December 2024 hydrocarbon concentrations for each sampled well are shown in Table 1, Figure 12 and in Appendix B. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Only well HTRW-1 was sampled this quarter. The December 2024 method 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 4.38 µg/L for the original sample and at 2.98 µg/L for the duplicate sample.
- Toluene and ethyl benzene were detected in December but were below the NMWQCC standards.
- Total xylenes were not detected above the NMWQCC standards for HTRW-1.
- TPH-GRO were detected at 0.065 mg/L for the original sample and at <0.06 mg/L for the duplicate sample for HTRW-1.
- TPH-DRO were not detected above the lower method reporting limits for HTRW-1.

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 for 2023 and 2024 is presented in Table 2.

In March 2023, QA/QC samples included a trip blank, and a duplicate groundwater sample obtained at well HTRW-1. There were no hydrocarbon detections in the trip blank. For the duplicate sample, there was a 46% difference in the results for benzene and toluene, 25% difference in the results for ethylbenzene, a 29% difference in the results for total xylenes, 8% difference in the results for TPH-GRO and a less than 1% difference in the results for TPH-DRO.

In May 2023, QA/QC samples included a trip blank, and a duplicate groundwater sample obtained at well HTRW-1. There were no hydrocarbon detections in the trip blank. For the duplicate sample, there was a 1% difference in the results for benzene, 3% difference in the results for toluene, 6% difference in the results for ethylbenzene, a 1% difference in the results for total xylenes, 37% difference in the results for TPH-GRO and a 1% difference in the results for TPH-DRO.

In September 2023, QA/QC samples included a trip blank, and a duplicate groundwater sample obtained at well HTRW-1. There were no hydrocarbon detections in the trip blank. For the duplicate sample, there was a 11% difference in the results for benzene, 11% difference in the results for toluene, and less than 3% difference in the results for ethylbenzene, total xylenes, TPH-GRO and TPH-DRO.

In November 2023, QA/QC samples included a trip blank, and a duplicate groundwater sample obtained at well HTRW-1. There were no hydrocarbon detections in the trip blank. For the duplicate sample, there were no differences in the results for benzene, toluene, ethylbenzene, total xylenes, TPH-GRO and TPH-DRO.

In March 2024, QA/QC samples included a trip blank, and a duplicate groundwater sample obtained at well HTRW-1. There were no hydrocarbon detections in the trip blank. For the duplicate sample, there was no difference in the results for benzene, toluene, ethylbenzene, total xylenes, TPH-GRO and TPH-DRO.

In June 2024, QA/QC samples included a trip blank. There were no hydrocarbon detections in the trip blank.

In September 2024, QA/QC samples included a trip blank. There were no hydrocarbon detections in the trip blank.

In December 2024, QA/QC samples included a trip blank, and a duplicate groundwater sample obtained at well HTRW-1. There were no hydrocarbon detections in the trip blank. For the duplicate sample, there was a 19% difference in the benzene, a 16% difference for toluene and no difference in the results for ethylbenzene, total xylenes, TPH-GRO and TPH-DRO.

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. 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, except the data obtained in March 2023 for well HTRW-1. All other data is suitable for use in this report.

5. Remediation Status

EFR was used to recover the released crude oil from December 2015 to 2018 and oil absorbent socks were used periodically for any de minimus remaining oil. Since 2018, EFR has been used on wells RW-1, HTRW-1, and HTRW-3 to remove dissolved phase hydrocarbons and any de minimus oil. During 2024, 21 biweekly to monthly EFR events were conducted at wells RW-1, HTRW-1, HTRW-2, and HTRW-3. A total of 291 bbls of groundwater were recovered and transported to local facility (Coopers SWD) for disposal in Monument, New Mexico.

The details for the 2024 Site remediation efforts including EFR are contained in Appendix D.

In addition to EFR, remediation activities for HTRW-1 have included use of Cool-Ox (calcium peroxide), ORC® socks, and air sparging. Five gallons of Cool-Ox were poured into HTRW-1 on December 8, 2022, primarily to clean the well of any residual crude oil and to reduce hydrocarbon concentrations. An air sparging system was installed in 2021 for well HTRW-1 with air being pumped into the well continuously for 2023 and 2024. The ORC® socks were installed in wells HTRW-1, RW-1 and HTRW-3 in March 2023 and replaced in September 2024. A waste characterization sample of the depleted ORC® socks was collected in October 2024 (Appendix C), and the depleted socks were transported to waste disposal facility as non-hazardous oil field waste.

For 2025, ORC® socks will be used on wells RW-1 and HTRW-3, and EFR will be used bimonthly on these wells. For well HTRW-1, EFR will be used bimonthly in 2025, and the ORC® socks and air sparging will continue to be maintained throughout 2025 during bimonthly Operation and Maintenance (O&M) activities.

6. Conclusions and Recommendations

Due to the on-going drought (rainfall for 2024 was 2.9 in while the yearly average is 17.97 in) and the overall drop in water levels of the Ogallala aquifer in the area (water levels have decreased by approximately 6 feet over the last 10 years), groundwater levels at the Site have dropped, leaving some monitoring wells dry. The wells that have been dry include wells MW-1, MW-2 and MW-3. These wells have been measured to be dry since 2020. Prior to downgradient wells MW-2 and MW-3 being measured as dry, these wells showed concentrations of benzene below the NMWQCC standard for more than 16 years.

Based on the NMOCD response to the 2023 Site Status Report, approved with comments on July 26, 2024, a technical memorandum was submitted to NMOCD that demonstrated the attainment of eight consecutive quarters of groundwater analytical results below NMWQCC standards before the wells “went dry” and that replacement of wells MW-2 and MW-3 with deeper wells was not necessary or appropriate. The technical memorandum was approved by the OCD on January 21, 2025.

The overall remedial approach for the site was to remove the crude oil to a negligible amount, to enhance biodegradation in the area where crude oil was measured and to reduce hydrocarbon concentrations. 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. The use of EFR has also been used to remove impacted water and to stimulate biodegradation by increasing the dissolved oxygen. The use of EFR, air sparging and use of the ORC® socks in HTRW-1 was primarily to promote biodegradation by increasing dissolved oxygen and secondarily to reduce hydrocarbons by volatizing the hydrocarbons with the air sparging. The use of these remediation methods on this well has successfully reduced benzene concentrations from a high of 1620 µg/L in 2017 to below the NMWQCC standard since November 2023. The dissolved phase hydrocarbon concentrations in well HTRW-1 have been declining with six (6) out of the last eight (8) quarters and six (6) consecutive quarters showing detections of benzene below the NMWQCC standard. Only the one (1) duplicate sample in September 2023 exceeded the NMWQCC standard for benzene; Table 1).

Recommendations for 2025 include the following:

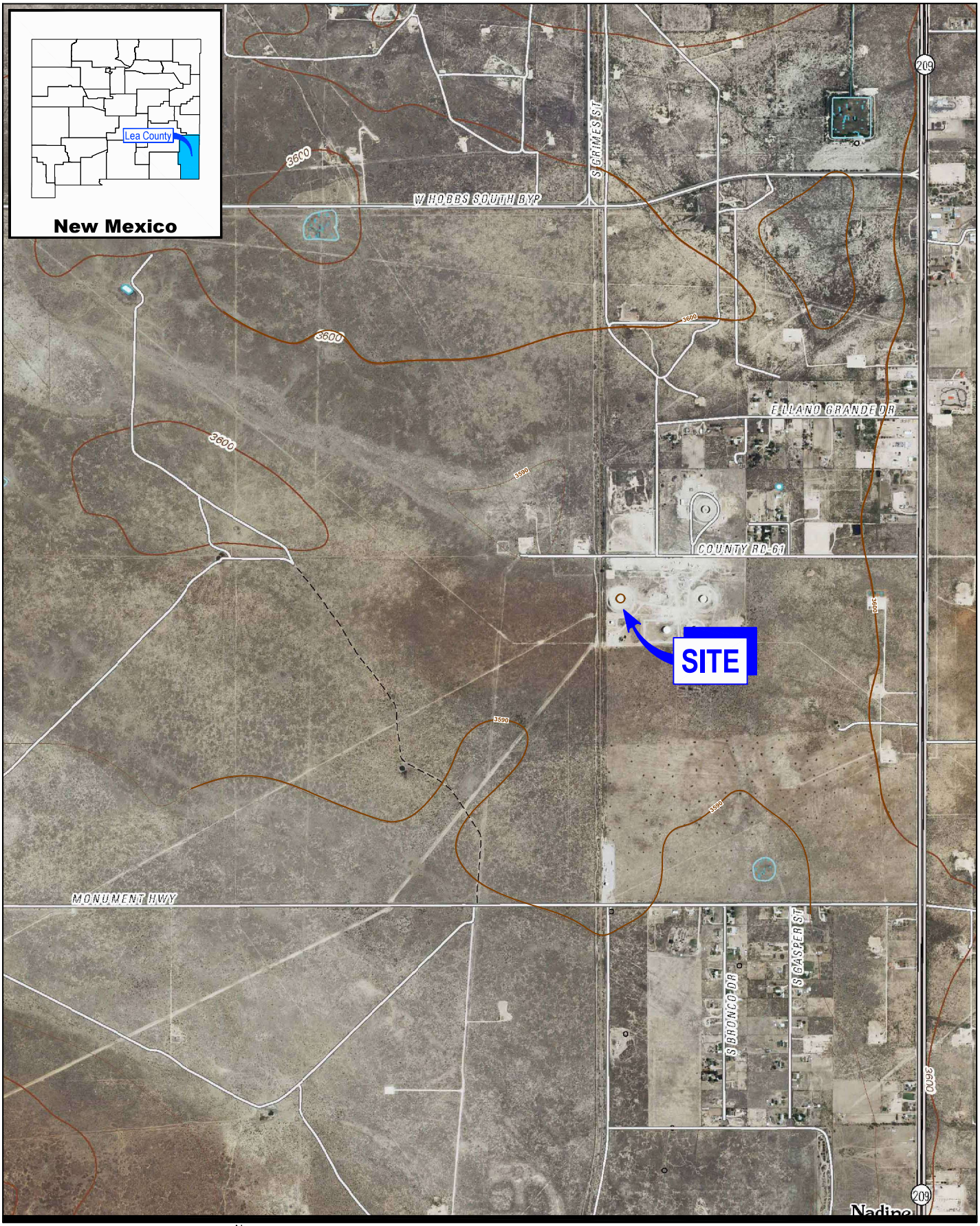
– Continue air sparging on a continuous basis in well HTRW-1.
– Continue use of EFR every two weeks on wells RW-1, HTRW-1, HTRW-2 and HTRW-3.
– Continue use of Oxygen Release Compound (ORC®) socks on an annual basis in wells RW-1, HTRW-1 and HTRW-3.
– Continue groundwater monitoring as per the work plan; sampling HTRW-1 quarterly and wells MW-2, MW-3, MW-4 and MW-5 semiannually if sufficient water is available in these wells

All groundwater samples will continue to be analyzed for BTEX, TPH-GRO and TPH-DRO. The remedial strategy for Site closure is based on the current NMWQCC and NMOCD requirements. To close the Site with no further action, the crude oil would have to be removed separately from groundwater (19.15.17.13 NMAC), which has not been measured in any of the Site wells since June 2020. None of the down-gradient wells have had any hydrocarbon detections above the NMWQCC standards since 2005. Since September 2021, there have been 11 out of 16 quarters with no detections of benzene above the NMWQCC standard in well HTRW-1 and since 2023, six (6) consecutive quarters. only the duplicate sample in September 2023 exceeded the NMWQCC standard for benzene.

Groundwater monitoring and remedial efforts will continue in 2025, as per the work plan and approved 2023 Site Status Report for the Hobbs Tank 5201 release. If you agree with this approach, and once eight consecutive quarters

of groundwater analytical results below the NMWQCC standards at the designated compliance monitoring points in accordance with rule 30.19.15.30.9 NMAC Abatement Standard requirements, HF Sinclair will request Site closure.

Figures



0 1000 2000 ft

1" = 2000 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

Project No. **12630714**
Date **September 2024**

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
Plot Date: 30 September 2024 4:25 PM

Data Source: USGS 7.5 Minute Quad "Hobbs West and Hobbs East, New Mexico"
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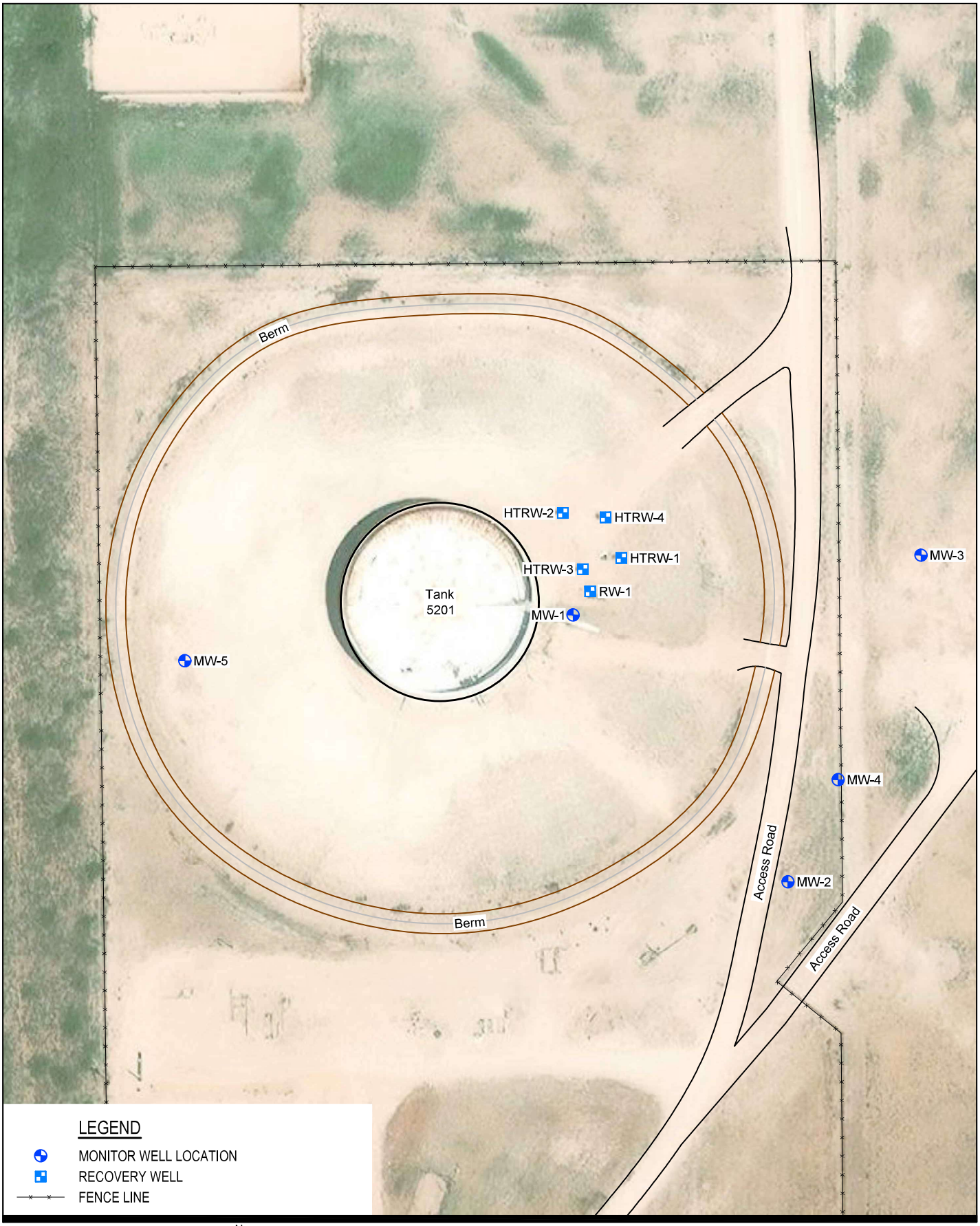


HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

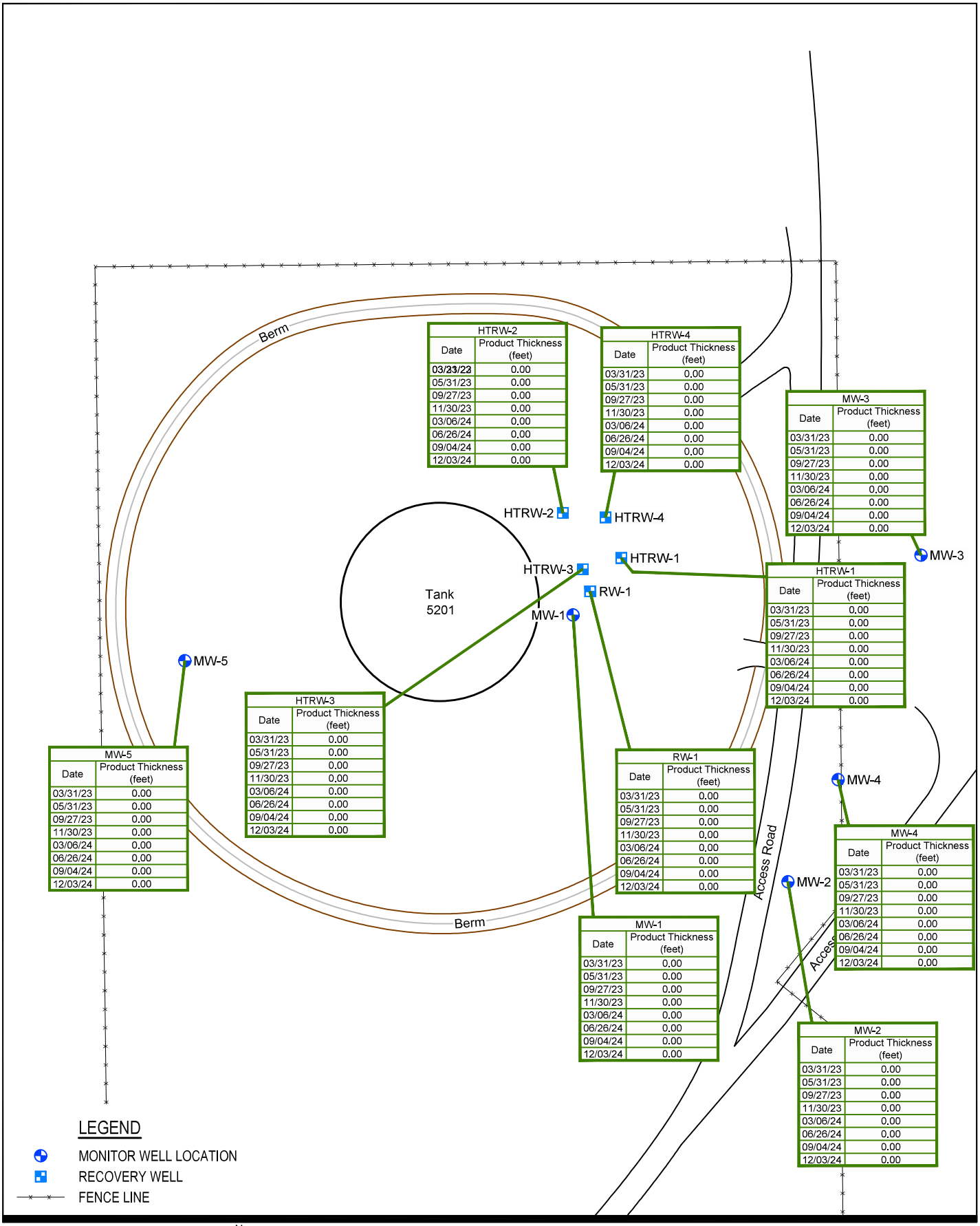
Project No. **12630714**
Date **September 2024**

SITE MAP

FIGURE 2

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.651235° North, 103.142551° West


Berm
Berm
Tank
5201
HTRW-2
HTRW-4
HTRW-3
HTRW-1
RW-1
MW-1
MW-2
MW-3
MW-4
MW-5
Access Road
Access
HTRW-2
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
HTRW-4
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
MW-3
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
HTRW-1
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
HTRW-3
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
RW-1
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
MW-1
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
MW-4
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
MW-2
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
MW-5
Date | Product Thickness (feet)
03/31/23 0.00
05/31/23 0.00
09/27/23 0.00
11/30/23 0.00
03/06/24 0.00
06/26/24 0.00
09/04/24 0.00
12/03/24 0.00
LEGEND
MONITOR WELL LOCATION
RECOVERY WELL
FENCE LINE
0 40 80 ft
1" = 80 ft
Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)
N
GHD
HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201
PRODUCT THICKNESS MAP -
MARCH 2023 TO DECEMBER 2024
Project No. 12630714
Date September 2024
FIGURE 3
Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
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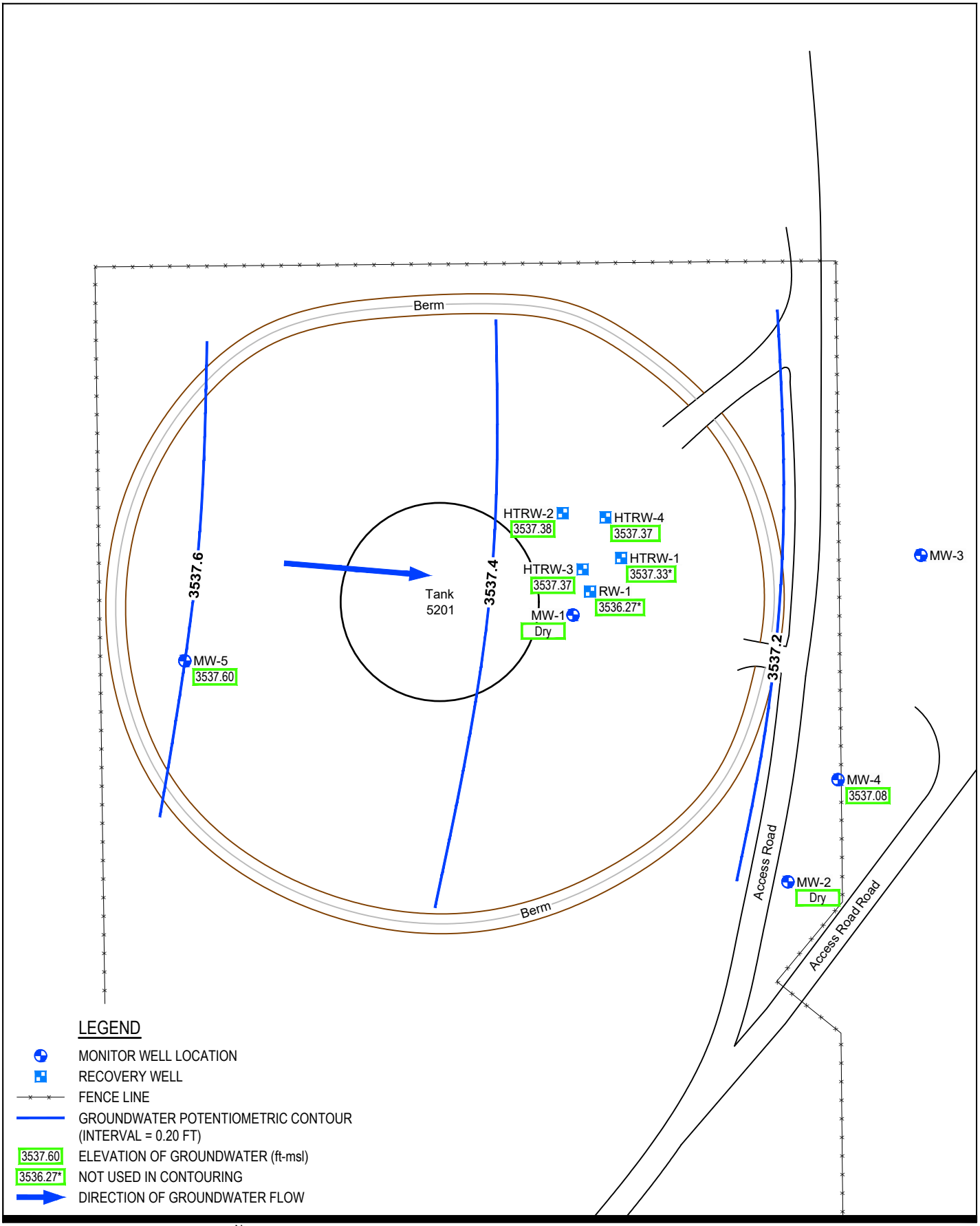

0 40 80 ft

1" = 80 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

GROUNDWATER SURFACE MAP - MARCH 2023

Project No. **12630714**
Date **March 2025**

FIGURE 4

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
Plot Date: 07 March 2025 3:39 PM

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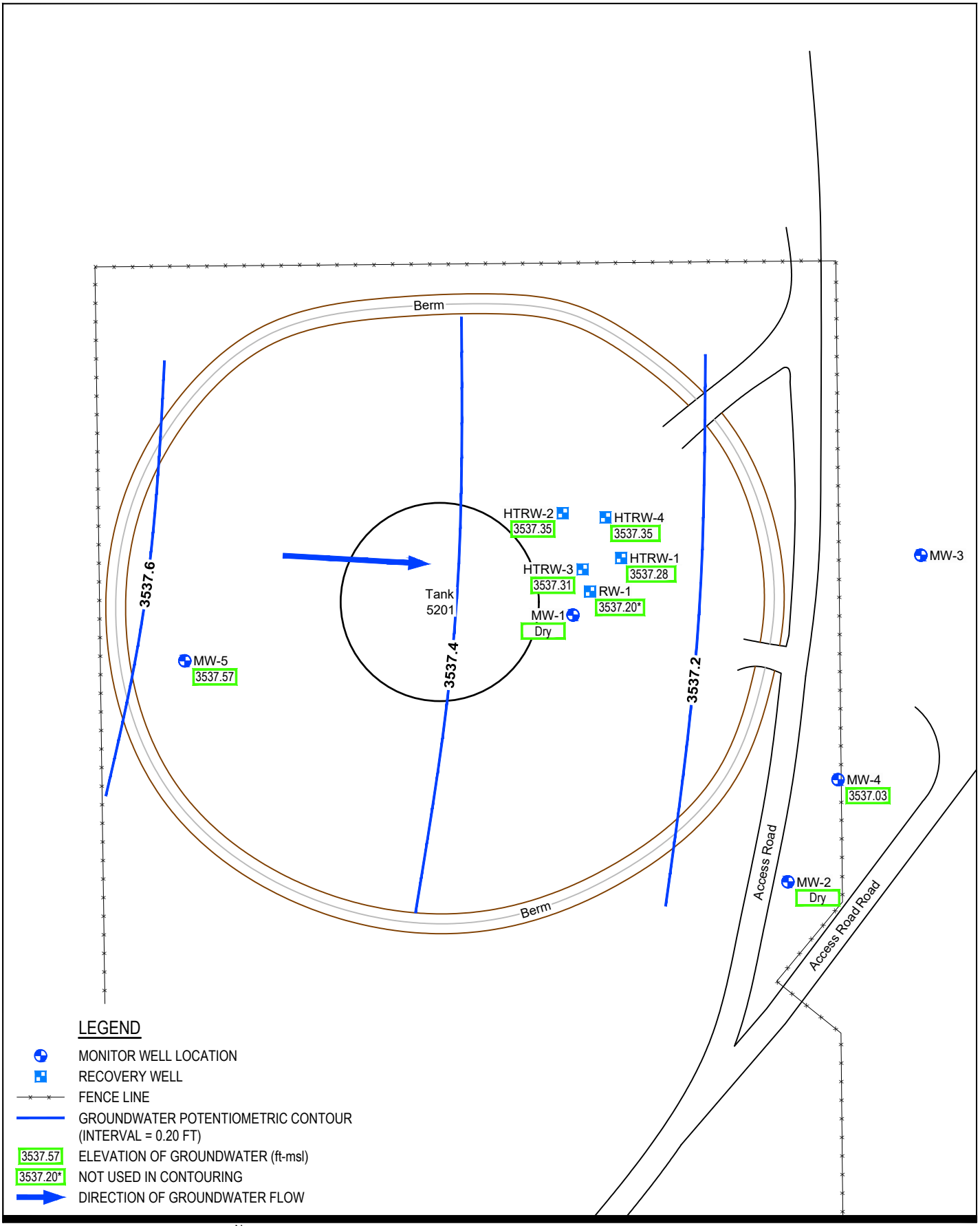

LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL
- FENCE LINE
- GROUNDWATER POTENTIOMETRIC CONTOUR (INTERVAL = 0.20 FT)
- 3537.57 ELEVATION OF GROUNDWATER (ft-msl)
- 3537.20* NOT USED IN CONTOURING
- DIRECTION OF GROUNDWATER FLOW

0 40 80 ft

1" = 80 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

GROUNDWATER SURFACE MAP - MAY 2023

Project No. **12630714**
Date **March 2025**

FIGURE 5

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
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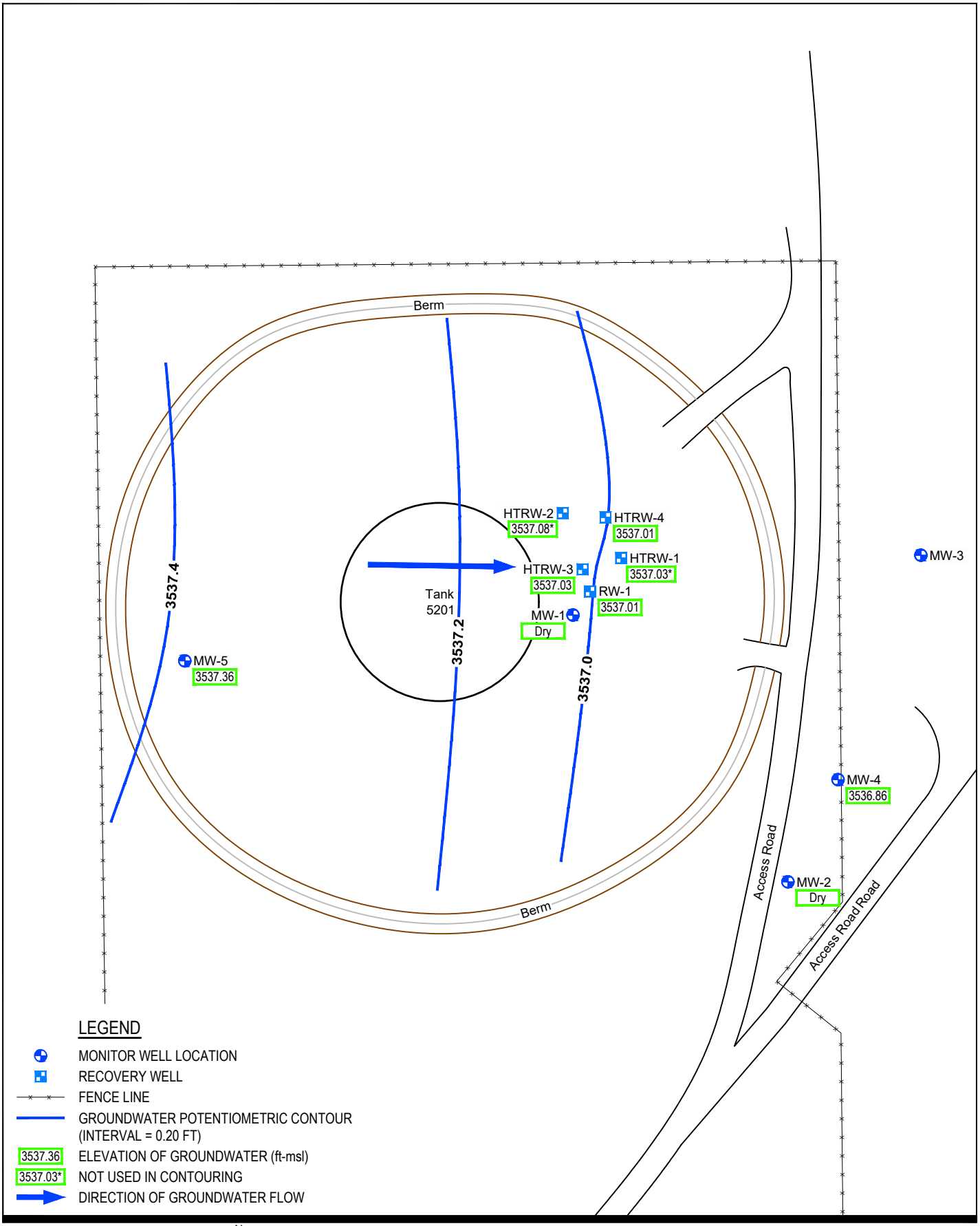

0 40 80 ft

1" = 80 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

Project No. **12630714**
Date **March 2025**

GROUNDWATER SURFACE MAP - SEPTEMBER 2023

FIGURE 6

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
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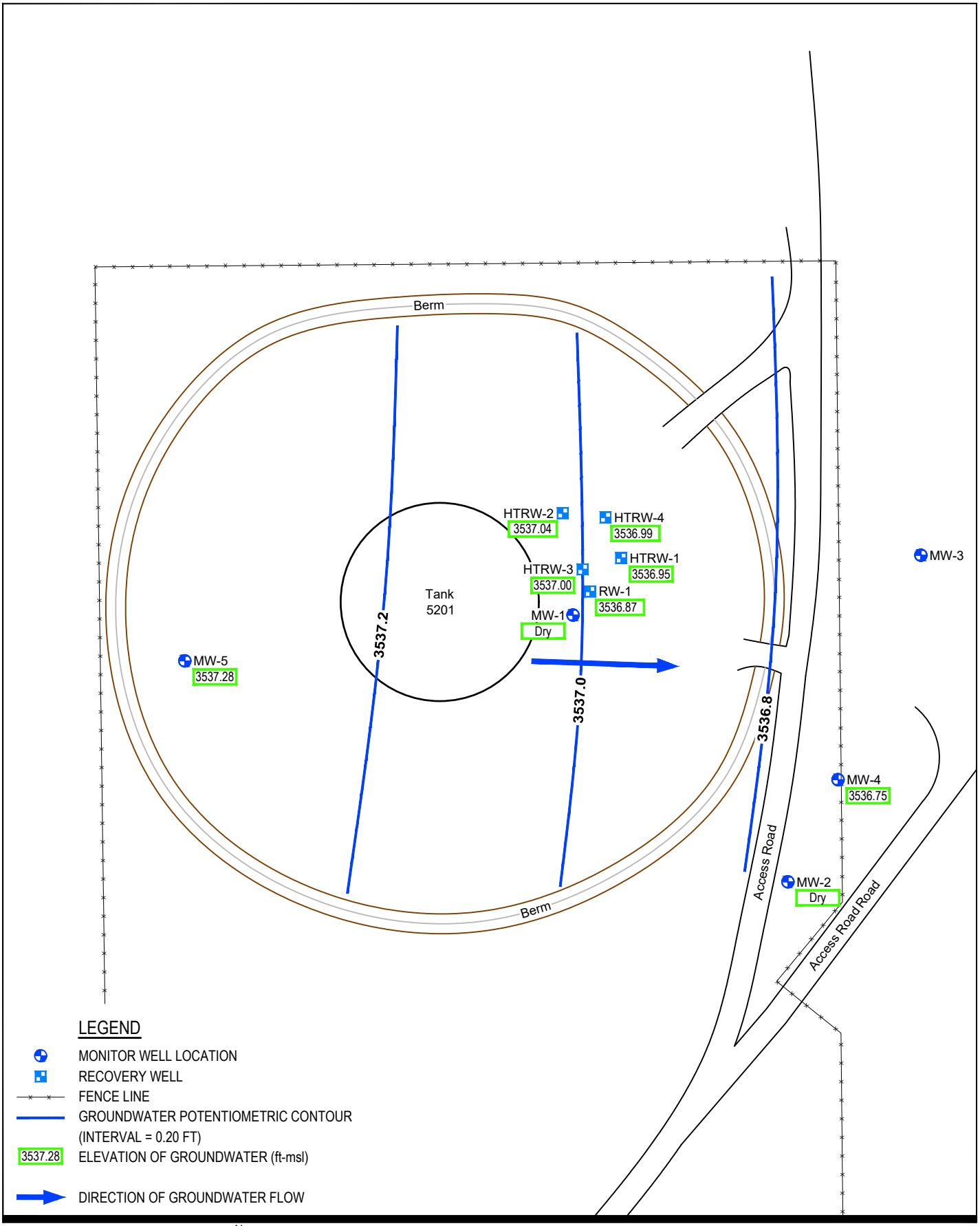

0 40 80 ft

1" = 80 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

GROUNDWATER SURFACE MAP - NOVEMBER 2023

Project No. **12630714**
Date **March 2025**

FIGURE 7

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
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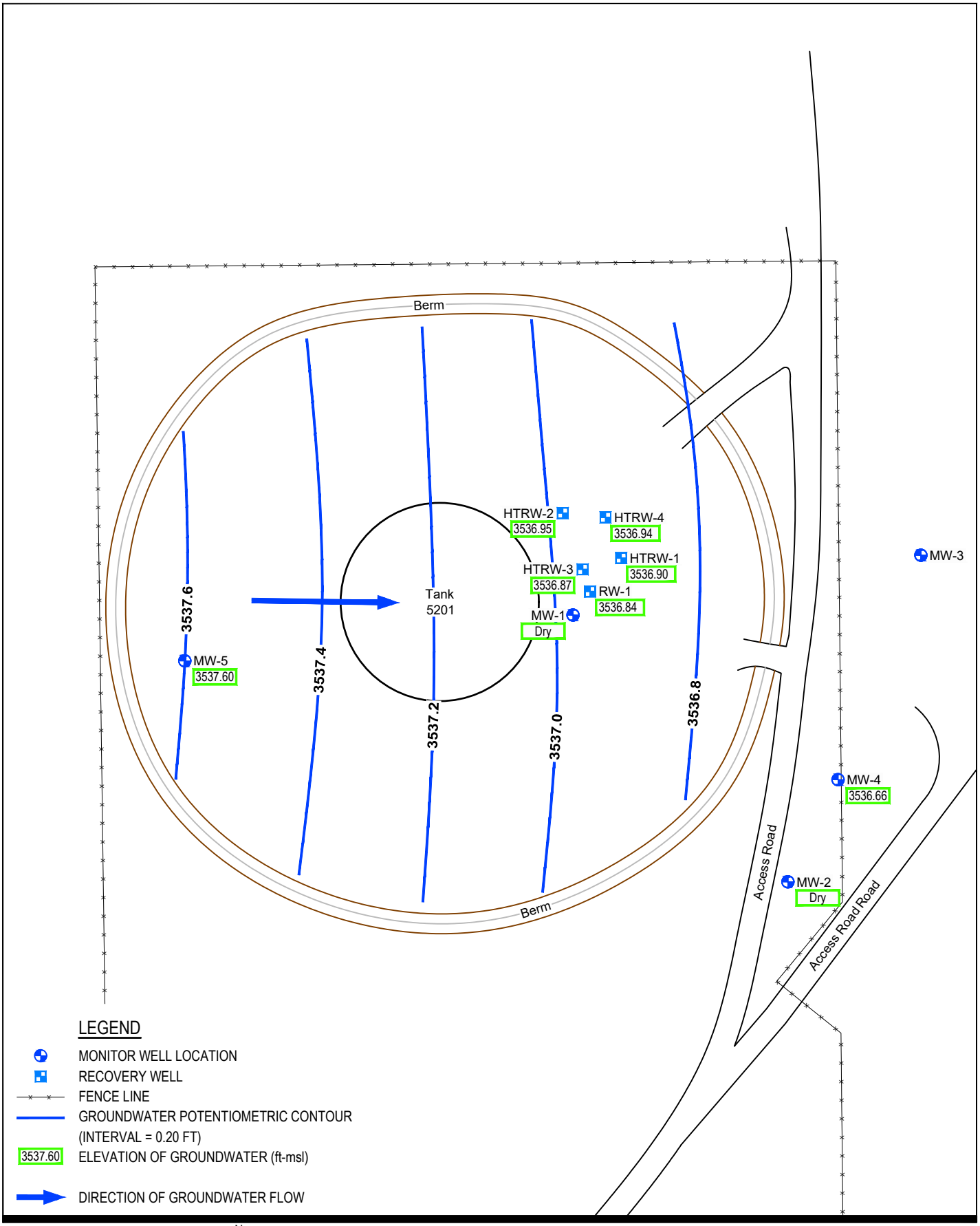

0 40 80 ft

1" = 80 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

Project No. **12630714**
Date **March 2025**

GROUNDWATER SURFACE MAP - MARCH 2024

FIGURE 8

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
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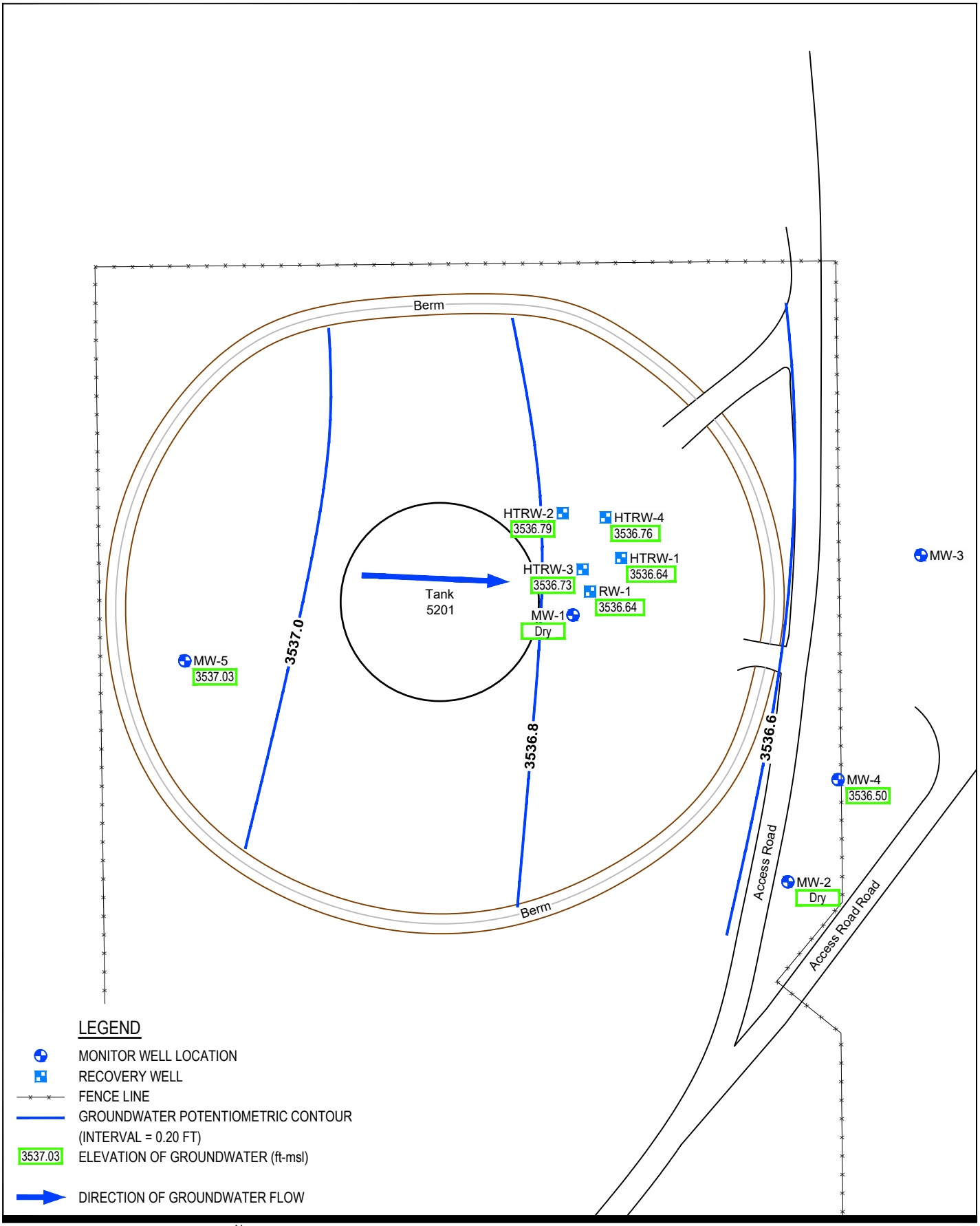
Lat/Long: 32.651235° North, 103.142551° West



LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL
- FENCE LINE
- GROUNDWATER POTENTIOMETRIC CONTOUR (INTERVAL = 0.20 FT)
- 3537.03 ELEVATION OF GROUNDWATER (ft-msl)
- DIRECTION OF GROUNDWATER FLOW

0 40 80 ft

1" = 80 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

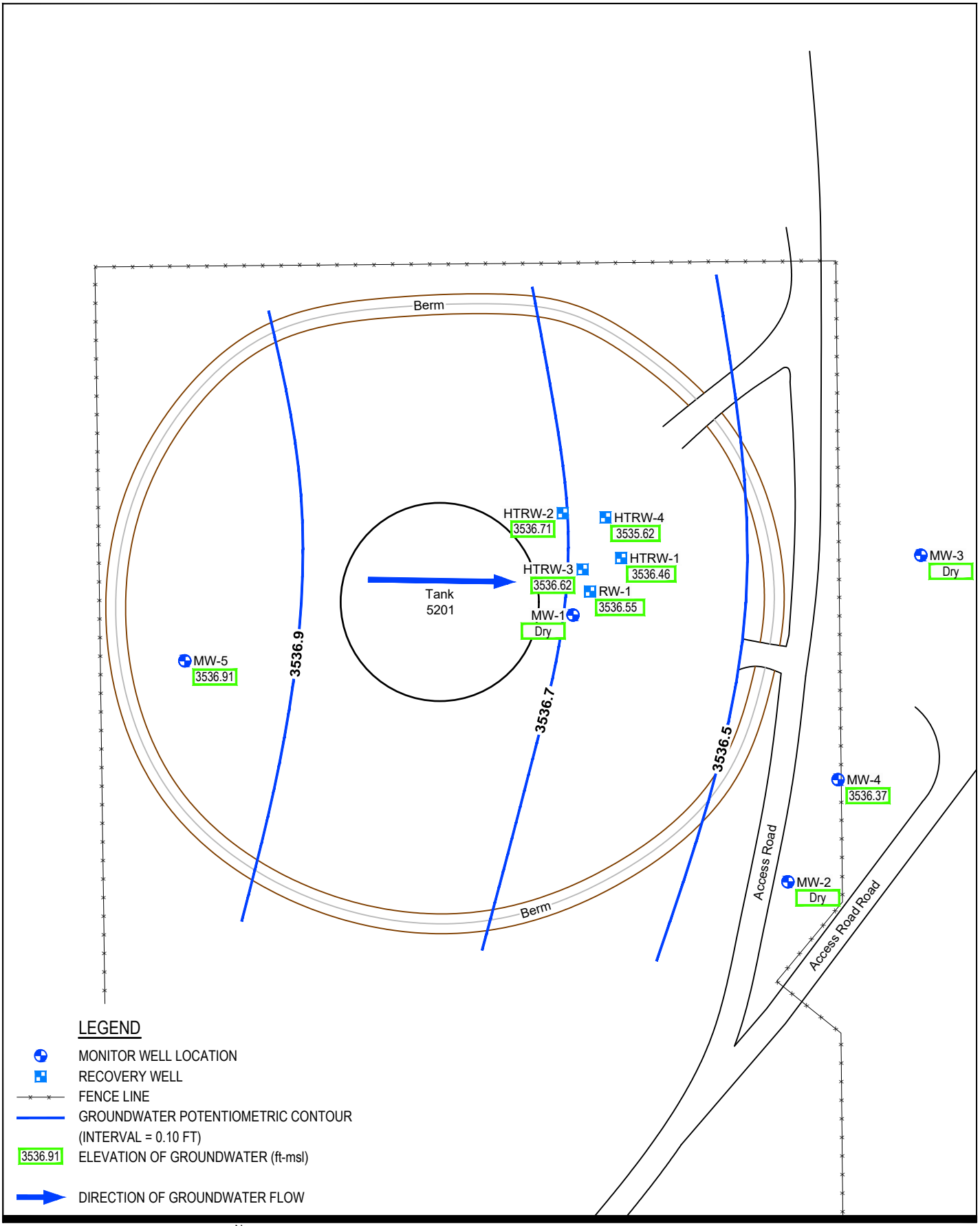
Project No. **12630714**
Date **March 2025**

GROUNDWATER SURFACE MAP - JUNE 2024

FIGURE 9

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
Plot Date: 07 March 2025 3:36 PM

Lat/Long: 32.651235° North, 103.142551° West



0 40 80 ft

1" = 80 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

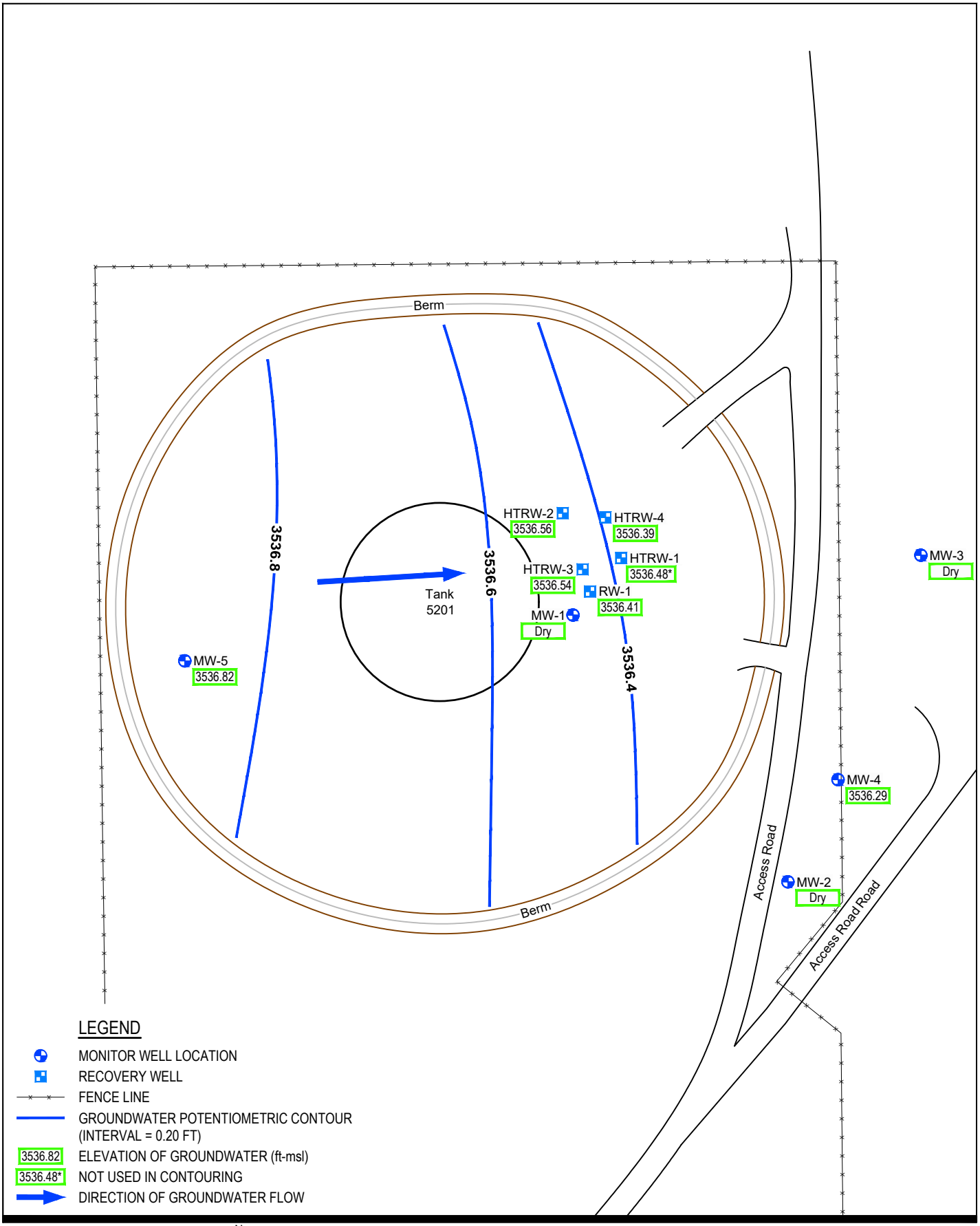
Project No. **12630714**
Date **March 2025**

GROUNDWATER SURFACE MAP - SEPTEMBER 2024

FIGURE 10

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
Plot Date: 07 March 2025 3:36 PM

Lat/Long: 32.651235° North, 103.142551° West



LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL
- FENCE LINE
- GROUNDWATER POTENTIOMETRIC CONTOUR (INTERVAL = 0.20 FT)
- 3536.82 ELEVATION OF GROUNDWATER (ft-msl)
- 3536.48* NOT USED IN CONTOURING
- DIRECTION OF GROUNDWATER FLOW

0 40 80 ft

1" = 80 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

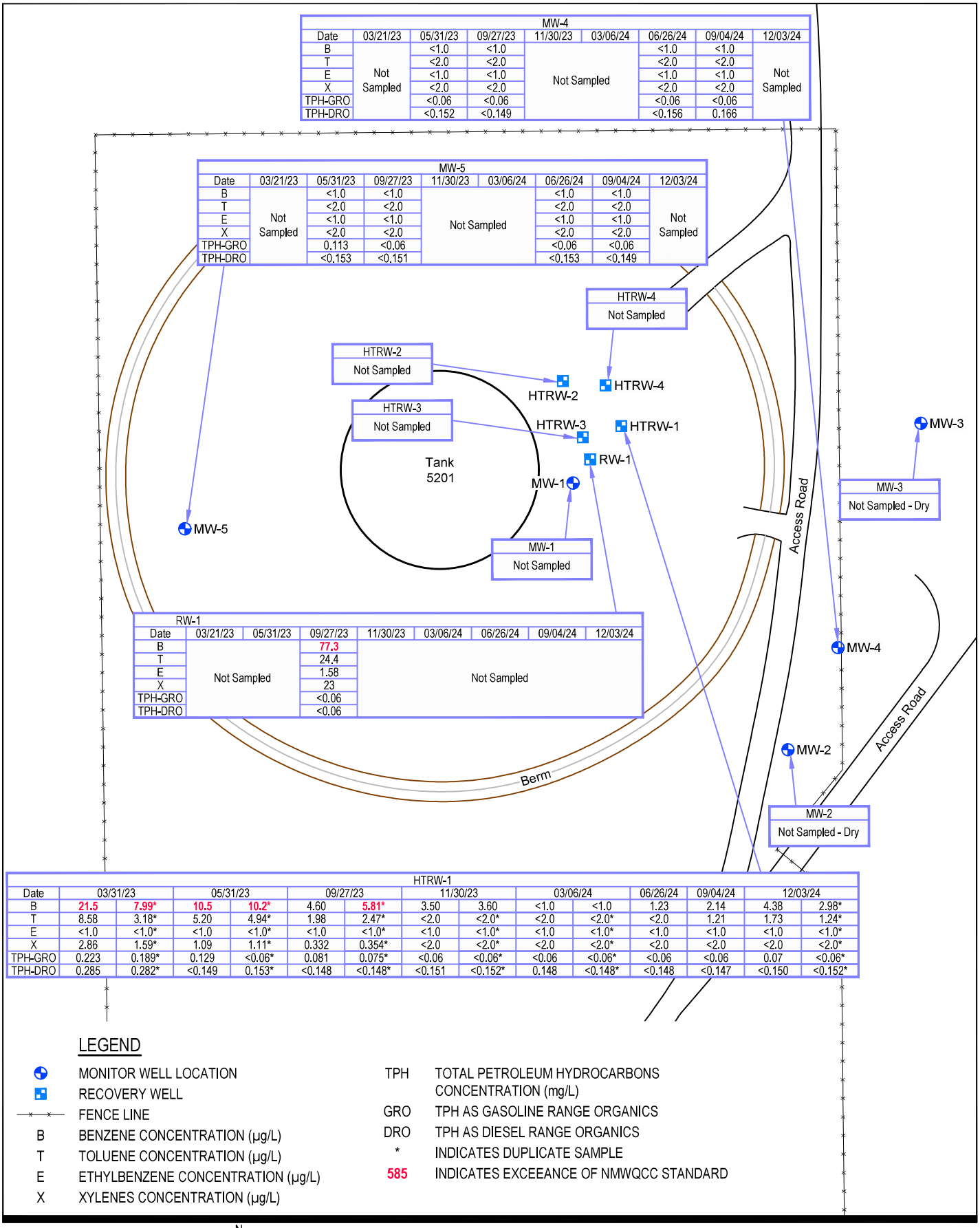
GROUNDWATER SURFACE MAP - DECEMBER 2024

Project No. **12630714**
Date **March 2025**

FIGURE 11

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
Plot Date: 07 March 2025 3:36 PM

Lat/Long: 32.651235° North, 103.142551° West



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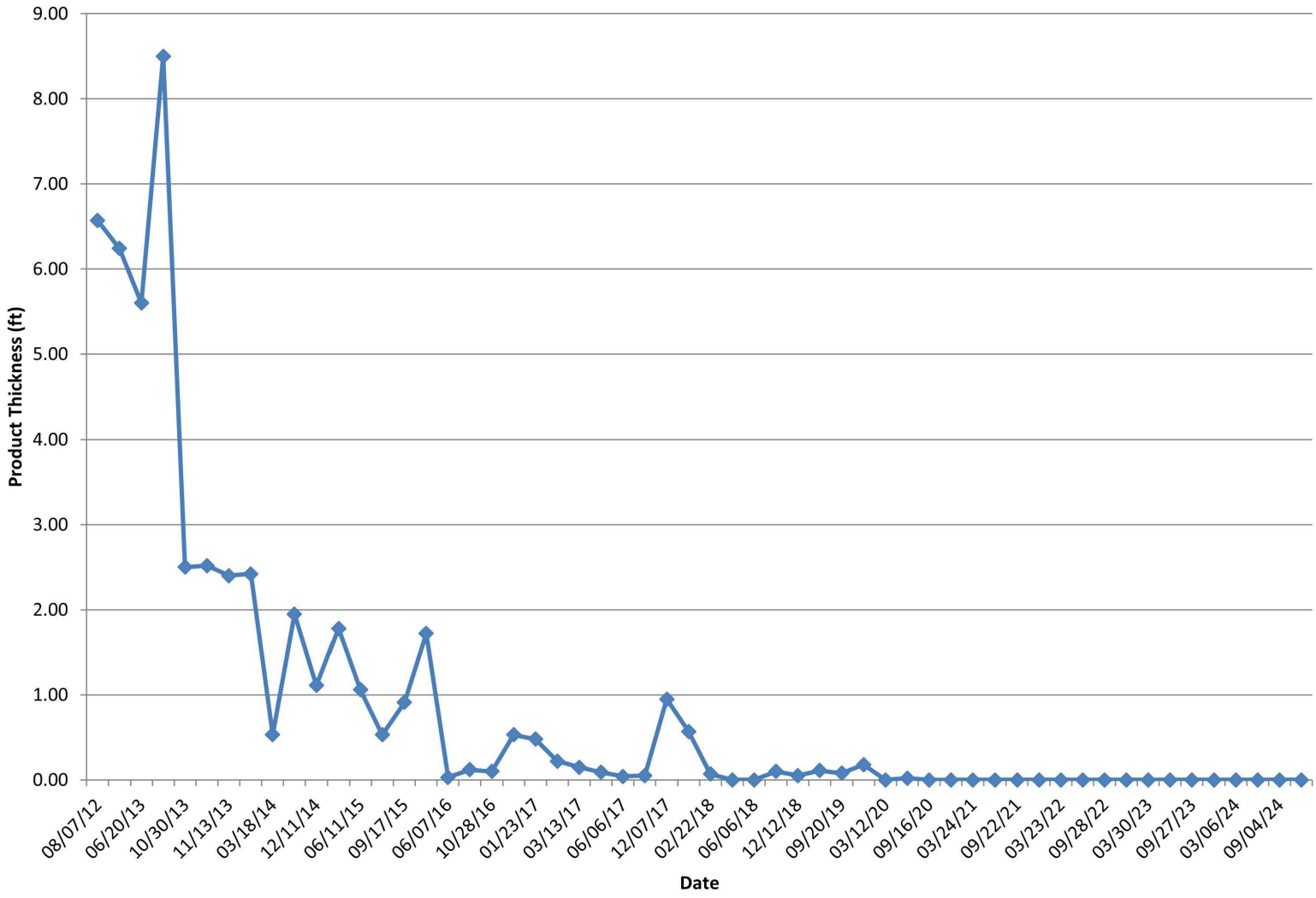

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

Project No. **12630714**
Date **December 2024**

SITE TOTAL ACCUMULATED CRUDE OIL THICKNESS

FIGURE 13

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
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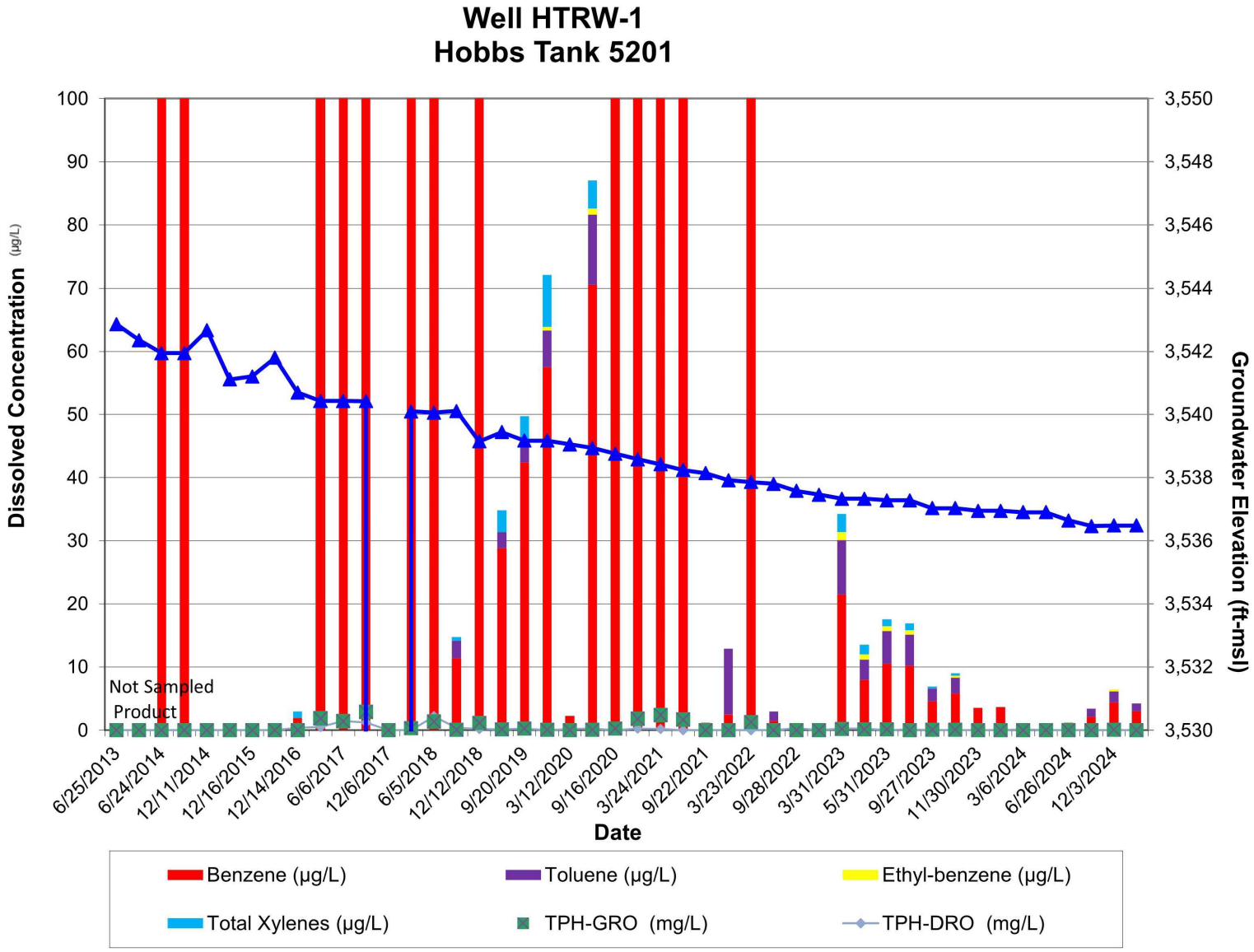

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

Project No. **12630714**
Date **December 2024**

HYDROCARBON CONCENTRATIONS FOR HTRW-1

FIGURE 14

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
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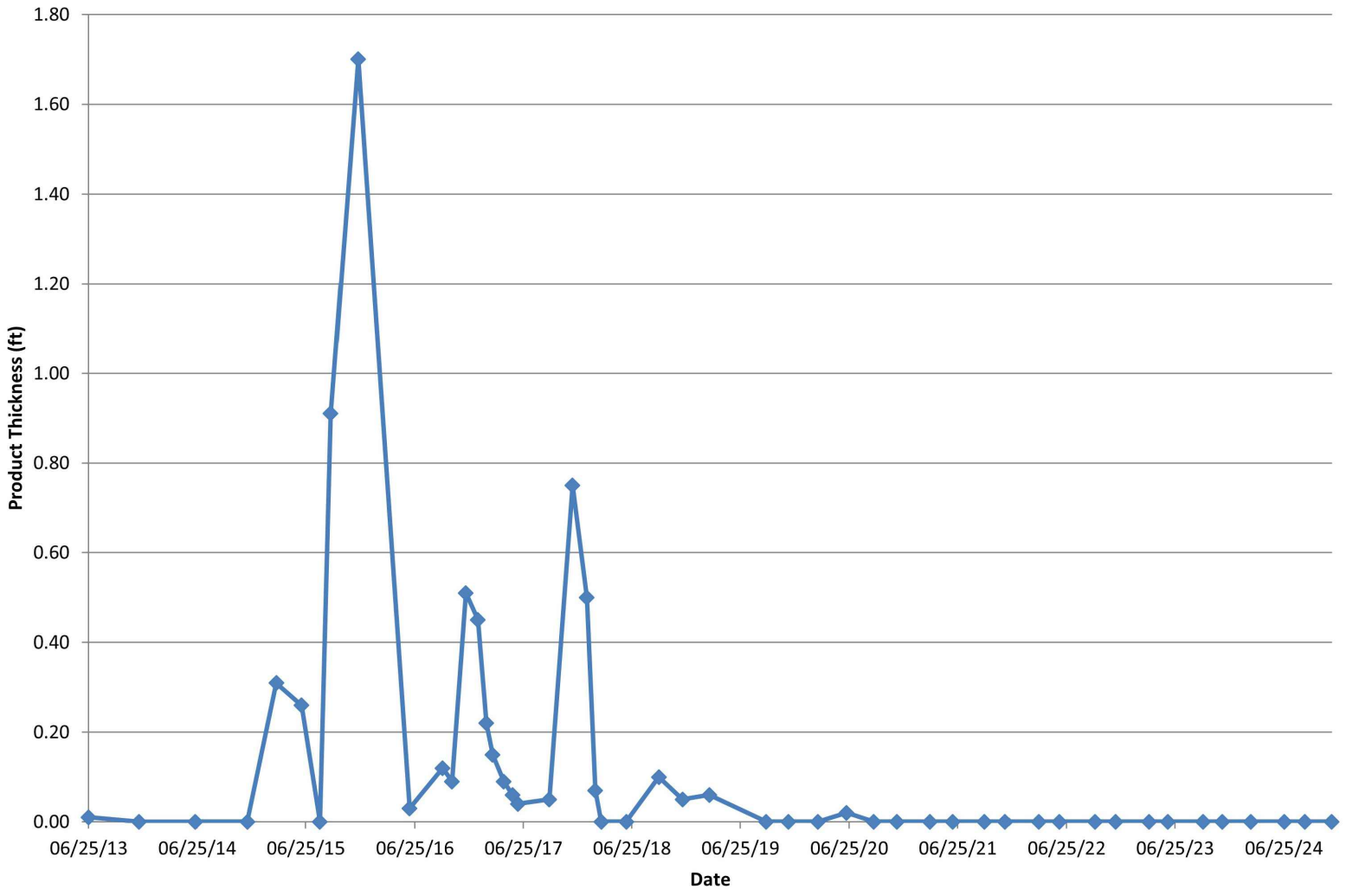

HF SINCLAIR
HOBBS, NEW MEXICO
HOBBS STATION TANK 5201

Project No. **12630714**
Date **December 2024**

CRUDE OIL THICKNESS FOR HTRW-3

FIGURE 15

Filename: \\ghdnet\ghd\US\Golden\Projects\562\12630714\Digital_Design\ACAD\Figures\RPT002\12630714-GHD-00-00-RPT-EN-D101_DL-002.dwg
Plot Date: 18 December 2024 6:30 PM

Tables

Table 1
Summary of Groundwater Hydrocarbon Results for 2023 and 2024
HF Sinclair - Hobbs Tank 5201

Monitor Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/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	03/31/23	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	05/31/23	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	09/27/23	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	11/30/23	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	3/6/2024	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	6/26/2024	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	9/4/2024	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	12/03/24	NS	NS	NS	NS	NS	NS	0.00	dry	dry
MW-2	03/31/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	05/31/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	09/27/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	11/30/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	3/6/2024	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	6/26/2024	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	9/4/2024	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	12/03/24	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
MW-3	03/31/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	53.19	3,537.62
	05/31/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	53.11	3,537.70
	09/27/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	53.20	3,537.61
	11/30/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	53.19	3,537.62
	3/6/2024	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	53.17	3,537.64
	6/26/2024	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	53.18	3,537.63
	9/4/2024	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	12/03/24	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
MW-4	03/31/23	NS	NS	NS	NS	NS	NS	0.00	53.77	3,537.08
	05/31/23	<1.0	<2.0	<1.0	<2.0	<0.06	<0.152	0.00	53.82	3,537.03
	09/27/23	<1.0	<2.0	<1.0	<2.0	<0.06	<0.149	0.00	53.99	3,536.86
	11/30/23	NS	NS	NS	NS	NS	NS	0.00	54.10	3,536.75
	3/6/2024	NS	NS	NS	NS	NS	NS	0.00	54.19	3,536.66
	6/26/2024	<1.0	<2.0	<1.0	<2.0	<0.06	<0.156	0.00	54.35	3,536.50
	9/4/2024	<1.0	<2.0	<1.0	<2.0	<0.06	0.166	0.00	54.48	3,536.37
	12/03/24	NS	NS	NS	NS	NS	NS	0.00	54.56	3,536.29
MW-5	03/31/23	NS	NS	NS	NS	NS	NS	0.00	54.98	3,537.60
	05/31/23	<1.0	<2.0	<1.0	<2.0	0.113	<0.153	0.00	55.15	3,537.57
	09/27/23	<1.0	<2.0	<1.0	<2.0	<0.06	<0.151	0.00	55.18	3,537.36
	11/30/23	NS	NS	NS	NS	NS	NS	0.00	55.39	3,537.28
	3/6/2024	NS	NS	NS	NS	NS	NS	0.00	54.98	3,537.60
	6/26/2024	<1.0	<2.0	<1.0	<2.0	<0.06	<0.153	0.00	55.72	3,537.03
	9/4/2024	<1.0	<2.0	<1.0	<2.0	<0.06	<0.149	0.00	55.84	3,536.91
	12/03/24	NS	NS	NS	NS	NS	NS	0.00	55.93	3,536.82

Table 1
Summary of Groundwater Hydrocarbon Results for 2023 and 2024
HF Sinclair - Hobbs Tank 5201

Monitor Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/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**			
HTRW-1	03/31/23	**21.5**	8.58	<1.0	2.86	0.223	0.285	0.00	50.81	3,537.33
duplicate	03/31/23	**7.99**	3.18	<1.0	1.59	0.189	0.282	0.00	50.81	3,537.33
	05/31/23	**10.5**	5.20	<1.0	1.09	0.129	<0.149	0.00	50.86	3,537.28
duplicate	05/31/23	**10.2**	4.94	<1.0	1.11	<0.06	0.153	0.00	50.86	3,537.28
	09/27/23	4.60	1.98	<1.0	0.332	0.081	<0.148	0.00	51.11	3,537.03
duplicate	09/27/23	**5.81**	2.47	<1.0	0.354	0.075	<0.148	0.00	51.11	3,537.03
	11/30/23	3.50	<2.0	<1.0	<2.0	<0.06	<0.151	0.00	51.19	3,536.95
duplicate	11/30/23	3.60	<2.0	<1.0	<2.0	<0.06	<0.152	0.00	51.19	3,536.95
	3/6/2024	<1.0	<2.0	<1.0	<2.0	<0.06	0.148	0.00	51.24	3,536.90
duplicate	3/6/2024	<1.0	<2.0	<1.0	<2.0	<0.06	<0.148	0.00	51.24	3,536.90
	6/26/2024	1.23	<2.0	<1.0	<2.0	<0.06	<0.148	0.00	51.50	3,536.64
	9/4/2024	2.14	1.21	<1.0	<2.0	<0.06	<0.147	0.00	51.68	3,536.46
	12/03/24	4.38	1.73	<1.0	<2.0	0.065	<0.150	0.00	51.66	3,536.48
duplicate	12/03/24	2.98	1.24	<1.0	<2.0	<0.06	<0.152	0.00	51.66	3,536.48
HTRW-2	03/31/23	NS	NS	NS	NS	NS	NS	0.00	50.13	3,537.38
	05/31/23	NS	NS	NS	NS	NS	NS	0.00	50.16	3,537.35
	09/27/23	NS	NS	NS	NS	NS	NS	0.00	50.43	3,537.08
	11/30/23	NS	NS	NS	NS	NS	NS	0.00	50.47	3,537.04
	3/6/2024	NS	NS	NS	NS	NS	NS	0.00	50.56	3,536.95
	6/26/2024	NS	NS	NS	NS	NS	NS	0.00	50.72	3,536.79
	9/4/2024	NS	NS	NS	NS	NS	NS	0.00	50.80	3,536.71
	12/03/24	NS	NS	NS	NS	NS	NS	0.00	50.95	3,536.56
HTRW-3	03/31/23	NS	NS	NS	NS	NS	NS	0.00	51.38	3,537.37
	05/31/23	NS	NS	NS	NS	NS	NS	0.00	51.44	3,537.31
	09/27/23	NS	NS	NS	NS	NS	NS	0.00	51.72	3,537.03
	11/30/23	NS	NS	NS	NS	NS	NS	0.00	51.75	3,537.00
	3/6/2024	NS	NS	NS	NS	NS	NS	0.00	51.88	3,536.87
	6/26/2024	NS	NS	NS	NS	NS	NS	0.00	52.02	3,536.73
	9/4/2024	NS	NS	NS	NS	NS	NS	0.00	52.13	3,536.62
	12/03/24	NS	NS	NS	NS	NS	NS	0.00	52.21	3,536.54
HTRW-4	03/31/23	NS	NS	NS	NS	NS	NS	0.00	51.20	3,537.37
	05/31/23	NS	NS	NS	NS	NS	NS	0.00	51.22	3,537.35
	09/27/23	NS	NS	NS	NS	NS	NS	0.00	51.56	3,537.01
	11/30/23	NS	NS	NS	NS	NS	NS	0.00	51.58	3,536.99
	3/6/2024	NS	NS	NS	NS	NS	NS	0.00	51.63	3,536.94
	6/26/2024	NS	NS	NS	NS	NS	NS	0.00	51.81	3,536.76
	9/4/2024	NS	NS	NS	NS	NS	NS	0.00	52.95	3,535.62
	12/03/24	NS	NS	NS	NS	NS	NS	0.00	52.18	3,536.39

Table 1
Summary of Groundwater Hydrocarbon Results for 2023 and 2024
HF Sinclair - Hobbs Tank 5201

Monitor Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/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**			
RW-1	03/31/23	NS	NS	NS	NS	NS	NS	0.00	55.78	3,536.27
	05/31/23	NS	NS	NS	NS	NS	NS	0.00	54.85	3,537.20
	09/27/23	**77.3**	24.4	1.58	23.0	<0.06	0.697	0.00	55.04	3,537.01
	11/30/23	NS	NS	NS	NS	NS	NS	0.00	55.18	3,536.87
	3/6/2024	NS	NS	NS	NS	NS	NS	0.00	55.21	3,536.84
	6/26/2024	NS	NS	NS	NS	NS	NS	0.00	55.41	3,536.64
	9/4/2024	NS	NS	NS	NS	NS	NS	0.00	55.50	3,536.55
	12/03/24	NS	NS	NS	NS	NS	NS	0.00	55.64	3,536.41

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 per Work Plan
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 2023 and 2024
HF Sinclair - Hobbs Tank 5201

Well No.	Date Sampled	Laboratory Analytical Results					
		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
NMWQC Groundwater Standards		5	1000	700	620	NE	NE
HTRW-1	03/31/23	21.5	8.58	1.30	2.86	0.223	0.285
	03/31/23	7.99	3.18	0.783	1.59	0.189	0.282
	% Difference	46	46	25	29	8	1
	05/31/23	10.5	5.20	0.728	1.09	0.129	<0.149
	05/31/23	10.2	4.94	0.645	1.11	<0.06	0.153
	% Difference	1	3	6	1	37	1
	09/27/23	4.60	1.98	<1.0	0.332	0.081	<0.148
	09/27/23	5.81	2.47	0.345	0.354	0.075	<0.148
	% Difference	11	11	0	3	3	0
	11/30/23	3.50	<2.0	<1.0	<2.0	<0.06	<0.151
	11/30/23	3.60	<2.0	<1.0	<2.0	<0.06	<0.152
	% Difference	1	0	0	0	0	0
	03/06/24	<1.0	<2.0	<1.0	<2.0	<0.06	0.148
	03/06/24	<1.0	<2.0	<1.0	<2.0	<0.06	<0.148
	% Difference	0	0	0	0	0	0
	12/03/24	4.38	1.73	0.352	<2.0	0.065	<0.150
	12/03/24	2.98	1.24	<1.0	<2.0	<0.06	<0.152
	% Difference	19	16	0	0	0	0
Trip Blank	03/31/23	<1.0	<2.0	<1.0	<1.0	<0.06	NA
Trip Blank	05/31/23	<1.0	<2.0	<1.0	<1.0	<0.06	NA
Trip Blank	09/27/23	<1.0	<2.0	<1.0	<1.0	<0.06	NA
Trip Blank	11/30/23	<1.0	<2.0	<1.0	<1.0	<0.06	NA
Trip Blank	03/06/24	<1.0	<2.0	<1.0	<1.0	<0.06	NA
Trip Blank	06/26/24	<1.0	<2.0	<1.0	<1.0	<0.06	NA
Trip Blank	09/04/24	<1.0	<2.0	<1.0	<1.0	<0.06	NA
Trip Blank	12/03/24	<1.0	<2.0	<1.0	<1.0	<0.06	NA

NA - Not Analyzed
BTEX = Benzene, Toluene, Ethylbenzene and Xylenes
BTEX analyzed by Method EPA 8260C
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Oganics
TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Oganics
NE = Not Established
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

Appendices

Appendix A

Summary of Historical Fluid Levels (August 2012 – December 2024)

Appendix A
Summary of Fluid Levels
HF Sinclair- Hobbs Tank 5201

Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
RW-1	08/07/12	48.06	51.01	2.95	58.19	3541.04	3,543.19	
3592.05	12/20/12	48.47	51.48	3.01		3540.57	3,542.77	
TD = 58.60	06/20/13	48.89	51.65	2.76		3540.40	3,542.41	
	08/23/13	49.05	51.95	2.90		3540.10	3,542.22	0
	10/30/13					0.00	3,592.05	
	11/02/13							9.7
	11/13/13							9.9
	12/11/13	49.69	49.70	0.01		3542.35	3,542.36	10.0
	03/18/14		49.92	0.00		3542.13	3,542.13	11.1
	06/19/14	50.19	50.20	0.01		3541.85	3,541.86	13.1
	12/11/14	50.41	50.47	0.06		3541.58	3,541.62	
	03/18/15	50.60	50.73	0.13		3541.32	3,541.41	
	06/11/15	trace	50.75	0.00		3541.30	3541.30	
	08/12/15		50.93	0.00		3541.12	3,541.12	
	09/17/15		51.02	0.00		3541.03	3,541.03	
	12/17/15	trace	50.92	0.00		3541.13	3541.13	
	06/07/16		51.32	0.00		3540.73	3,540.73	
	09/26/16		50.98	0.00		3541.07	3,541.07	
	10/28/16		50.96	0.00		3541.09	3,541.09	
	12/13/16		51.46	0.00		3540.59	3,540.59	
	01/23/17		51.55	0.00		3540.50	3,540.50	
	02/20/17		51.65	0.00		3540.40	3,540.40	
	03/13/17		51.60	0.00		3540.45	3,540.45	
	04/20/17		51.61	0.00		3540.44	3,540.44	
	06/06/17		51.71	0.00		3540.34	3,540.34	
	09/20/17		51.79	0.00		3540.26	3,540.26	
	12/07/17		51.91	0.00		3540.14	3,540.14	
	01/24/18	51.99	52.04	0.05		3540.01	3,540.05	
	02/22/18		52.06	0.00		3539.99	3,539.99	
	03/14/18		52.06	0.00		3539.99	3,539.99	
	06/06/18		51.25	0.00		3540.80	3,540.80	
	09/24/18		52.48	0.00		3539.57	3,539.57	
	12/12/18		52.48	0.00		3539.57	3,539.57	
	03/12/19	52.64	52.66	0.02		3539.39	3,539.40	
	09/20/19		52.95	0.00		3539.10	3,539.10	
	12/04/19		53.10	0.00		3538.95	3,538.95	
	03/12/20		53.19	0.00		3538.86	3,538.86	
	06/16/20		53.30	0.00		3538.75	3,538.75	
	09/16/20		53.43	0.00		3538.62	3,538.62	
	12/02/20		53.76	0.00		3538.29	3,538.29	
	03/24/21		53.72	0.00		3538.33	3,538.33	
	06/08/21		53.78	0.00		3538.27	3,538.27	
	09/22/21		53.89	0.00		3538.16	3,538.16	
	12/01/21		54.07	0.00		3537.98	3,537.98	
	03/23/22		54.26	0.00		3537.79	3,537.79	
	06/01/22		54.35	0.00		3537.70	3,537.70	
	09/28/22		54.59	0.00		3537.46	3,537.46	
	12/07/22		54.62	0.00		3537.43	3,537.43	
	03/30/23		55.78	0.00		3536.27	3,536.27	
	05/31/23		54.85	0.00		3537.20	3,537.20	
	09/27/23		55.04	0.00		3537.01	3,537.01	
	11/30/23		55.18	0.00		3536.87	3,536.87	
	03/06/24		55.21	0.00		3536.84	3,536.84	
	06/26/24		55.41	0.00		3536.64	3,536.64	
	09/04/24		55.50	0.00		3536.55	3,536.55	
	12/03/24		55.64	0.00		3536.41	3,536.41	

Appendix A
Summary of Fluid Levels
HF Sinclair- Hobbs Tank 5201

Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
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	
TD = 53.26	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		3638.77	3538.77	
	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	
	03/23/22		dry	0.00		dry	dry	
	06/01/22		dry	0.00		dry	dry	
	09/28/22		dry	0.00		dry	dry	
	12/07/22		dry	0.00		dry	dry	
	03/30/23		dry	0.00		dry	dry	
	05/31/23		dry	0.00		dry	dry	
	09/27/23		dry	0.00		dry	dry	
	11/30/23		dry	0.00		dry	dry	
	03/06/24		dry	0.00		dry	dry	
	06/26/24		dry	0.00		dry	dry	
	09/04/24		dry	0.00		dry	dry	
	12/03/24		dry	0.00		dry	dry	

Appendix A
Summary of Fluid Levels
HF Sinclair- Hobbs Tank 5201

Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(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		
TD = 52.65	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		
	03/23/22		dry	0.00		dry		
	06/01/22		dry	0.00		dry		
	09/28/22		dry	0.00		dry		
	12/07/22		dry	0.00		dry		
	03/30/23		dry	0.00		dry		
	05/31/23		dry	0.00		dry		
	09/27/23		dry	0.00		dry		
	11/30/23		dry	0.00		dry		
	03/06/24		dry	0.00		dry		
	06/26/24		dry	0.00		dry		
	09/04/24		dry	0.00		dry		
	12/03/24		dry	0.00		dry		

Appendix A
Summary of Fluid Levels
HF Sinclair- Hobbs Tank 5201

Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
MW-3	08/07/12		47.43	0.00	53.20	3543.38		
3590.81	12/20/12		47.87	0.00		3542.94		
TD = 53.30	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		
	03/23/22		dry	0.00		dry		
	06/01/22		dry	0.00		dry		
	09/28/22		dry	0.00		dry		
	12/07/22		dry	0.00		dry		
	03/30/23		53.19	0.00		3537.62		
	05/31/23		53.11	0.00		3537.70		
	09/27/23		53.20	0.00		3537.61		
	11/30/23		53.19	0.00		3537.62		
	03/06/24		53.17	0.00		3537.64		
	06/26/24		53.18	0.00		3537.63		
	09/04/24		dry	0.00		dry		
	12/03/24		dry	0.00		dry		

Appendix A
Summary of Fluid Levels
HF Sinclair- Hobbs Tank 5201

Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
MW-4	08/07/12		47.44	0.00	62.58	3543.41		
3590.85	12/20/12		47.89	0.00		3542.96		
TD = 62.96	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		
	03/23/22		53.28	0.00		3537.57		
	06/01/22		53.30	0.00		3537.55		
	09/28/22		53.52	0.00		3537.33		
	12/07/22		53.63	0.00		3537.22		
	03/30/23		53.77	0.00		3537.08		
	05/31/23		53.82	0.00		3537.03		
	09/27/23		53.99	0.00		3536.86		
	11/30/23		54.10	0.00		3536.75		
	03/06/24		54.19	0.00		3536.66		
	06/26/24		54.35	0.00		3536.50		
	09/04/24		54.48	0.00		3536.37		
	12/03/24		54.56	0.00		3536.29		

Appendix A
Summary of Fluid Levels
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Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(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		
TD = 58.93	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		52.50	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		
	03/23/22		54.60	0.00		3538.15		
	06/01/22		54.67	0.00		3538.08		
	09/28/22		~~54.88~~	0.00		3537.87		
	12/07/22		54.98	0.00		3537.77		
	03/30/23		55.15	0.00		3537.60		
	05/31/23		55.18	0.00		3537.57		
	09/27/23		55.39	0.00		3537.36		
	11/30/23		55.47	0.00		3537.28		
	03/06/24		55.55	0.00		3537.20		
	06/26/24		55.72	0.00		3537.03		
	09/04/24		55.84	0.00		3536.91		
	12/03/24		55.93	0.00		3536.82		

Appendix A
Summary of Fluid Levels
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Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
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	
TD = 60.14	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	
	03/23/22		50.28	0.00		3537.86	3,537.86	
	06/01/22		50.34	0.00		3537.80	3,537.80	
	09/28/22		50.56	0.00		3537.58	3,537.58	
	12/07/22		50.68	0.00		3537.46	3,537.46	
	03/30/23		50.81	0.00		3537.33	3,537.33	
	05/31/23		50.86	0.00		3537.28	3,537.28	
	09/27/23		51.11	0.00		3537.03	3,537.03	
	11/30/23		51.19	0.00		3536.95	3,536.95	
	03/06/24		51.24	0.00		3536.90	3,536.90	
	06/26/24		51.50	0.00		3536.64	3,536.64	
	09/04/24		51.68	0.00		3536.46	3,536.46	
	12/03/24		51.66	0.00		3536.48	3,536.48	

Appendix A
Summary of Fluid Levels
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Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(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		
TD = 57.92	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		
	03/23/22		49.69	0.00		3537.82		
	06/01/22		49.76	0.00		3537.75		
	09/28/22		49.99	0.00		3537.52		
	12/07/22		49.98	0.00		3537.53		
	03/30/23		50.13	0.00		3537.38		
	05/31/23		50.16	0.00		3537.35		
	09/27/23		50.43	0.00		3537.08		
	11/30/23		50.47	0.00		3537.04		
	03/06/24		50.56	0.00		3536.95		
	06/26/24		50.72	0.00		3536.79		
	09/04/24		50.80	0.00		3536.71		
	12/03/24		50.95	0.00		3536.56		

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Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(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			3542.42	3,542.43	
TD = 57.92	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	
	03/23/22		50.90	0.00		3537.85	3,537.85	
	06/01/22		51.05	0.00		3537.70	3,537.70	
	09/28/22		51.20	0.00		3537.55	3,537.55	
	12/07/22		52.26	0.00		3536.49	3,536.49	
	03/30/23		51.38	0.00		3537.37	3,537.37	
	05/31/23		51.44	0.00		3537.31	3,537.31	
	09/27/23		51.72	0.00		3537.03	3,537.03	
	11/30/23		51.75	0.00		3537.00	3,537.00	
	03/06/24		51.88	0.00		3536.87	3,536.87	
	06/26/24		52.02	0.00		3536.73	3,536.73	
	09/04/24		52.13	0.00		3536.62	3,536.62	
	12/03/24		52.21	0.00		3536.54	3,536.54	

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Summary of Fluid Levels
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Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation[1]	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
HTRW-4	06/25/13		45.68	0.00	60.16	3542.89		
3588.57	12/11/13		46.13	0.00		3542.44		
TD = 60.10	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		
	03/23/22		50.65	0.00		3537.92		
	06/01/22		50.78	0.00		3537.79		
	09/28/22		51.03	0.00		3537.54		
	12/07/22		51.02	0.00		3537.55		
	03/30/23		51.20	0.00		3537.37		
	05/31/23		51.22	0.00		3537.35		
	09/27/23		51.56	0.00		3537.01		
	11/30/23		51.58	0.00		3536.99		
	03/06/24		51.63	0.00		3536.94		
	06/26/24		51.81	0.00		3536.76		
	09/04/24		52.95	0.00		3535.62		
	12/03/24		52.18	0.00		3536.39		

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 gavity
* Depth to water reading is deeper than most recent total well depth reading

Appendix B

Summary of Historical Groundwater Analytical Results (August – December 2024)

Appendix B
Summary of Historical Groundwater Analytical Results and Field Parameters
HF Sinclair- Hobbs Tank 5201

Monitor Well ID/ MP Elevation	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/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
	03/23/22	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
	06/01/22	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
	09/28/22	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
	12/07/22	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
	03/31/23	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
	05/31/23	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
	09/27/23	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
	11/30/23	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
	03/06/24	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
	06/26/24	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
	09/04/24	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
	12/03/24	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
HF Sinclair- Hobbs Tank 5201

Monitor Well ID/ MP Elevation	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/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	<0.102	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	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
	03/23/22	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
	06/01/22	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
	09/28/22	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
	12/07/22	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
	03/31/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	53.19	3,537.62	NS	NS	NS	NS	NS
	05/31/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	53.11	3,537.70	NS	NS	NS	NS	NS
	09/27/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	53.20	3,537.61	NS	NS	NS	NS	NS
	11/30/23	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	53.19	3,537.62	NS	NS	NS	NS	NS
	03/06/24	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	53.17	3,537.64	NS	NS	NS	NS	NS
	06/26/24	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	53.18	3,537.63	NS	NS	NS	NS	NS
	09/04/24	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS	NS	NS	NS	NS
	12/03/24	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS	NS	NS	NS	NS

Appendix B
Summary of Historical Groundwater Analytical Results and Field Parameters
HF Sinclair- Hobbs Tank 5201

Monitor Well ID/ MP Elevation	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/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
	03/23/22	NS	NS	NS	NS		NS	NS	0.00	53.28	3,537.57	NS	NS	NS	NS	NS
	06/01/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.162	0.00	53.30	3,537.55	20.97	2.559	1.92	7.07	90.8
	09/28/22	NS	NS	NS	NS		NS	NS	0.00	53.52	3,537.33	21.05	3.112	2.33	7.12	90.8
	12/07/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.157	0.00	53.63	3,537.22	NM	NM	NM	NM	NM
	03/31/23	NS	NS	NS	NS		NS	NS	0.00	53.77	3,537.08	NM	NM	NM	NM	NM
	05/31/23	<1.0	<2.0	<1.0	<2.0		<0.06	<0.152	0.00	53.82	3,537.03	NM	NM	NM	NM	NM
	09/27/23	<1.0	<2.0	<1.0	<2.0		<0.06	<0.149	0.00	53.99	3,536.86	NM	NM	NM	NM	NM
	11/30/23	NS	NS	NS	NS		NS	NS	0.00	54.10	3,536.75	NM	NM	NM	NM	NM
	03/06/24	NS	NS	NS	NS		NS	NS	0.00	54.19	3,536.66	NM	NM	NM	NM	NM
	06/26/24	<1.0	<2.0	<1.0	<2.0		<0.06	<0.156	0.00	54.35	3,536.50	NM	NM	NM	NM	NM
	09/04/24	<1.0	<2.0	<1.0	<2.0		<0.06	0.166	0.00	54.48	3,536.37	18.82	--	0.19	6.67	169.80
	12/03/24	NS	NS	NS	NS		NS	NS	0.00	54.56	3,536.29	NM	NM	NM	NM	NM

Appendix B
Summary of Historical Groundwater Analytical Results and Field Parameters
HF Sinclair- Hobbs Tank 5201

Monitor Well ID/ MP Elevation	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/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
duplicate	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
	03/23/22	NS	NS	NS	NS		NS	NS	0.00	54.60	3,538.15	NS	NS	NS	NS	NS
	06/01/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.159	0.00	54.67	3,538.08	21.44	1.234	2.94	7.23	102.0
	09/28/22	NS	NS	NS	NS		NS	NS	0.00	54.88	3,537.87	22.03	1.488	3.12	7.07	122.1
	12/07/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.147	0.00	54.98	3,537.77	NM	NM	NM	NM	NM
duplicate	12/07/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.148	0.00	54.98	3,537.77	NM	NM	NM	NM	NM
	03/31/23	NS	NS	NS	NS		NS	NS	0.00	55.15	3,537.60	NM	NM	NM	NM	NM
	05/31/23	<1.0	<2.0	<1.0	<2.0		0.113	<0.153	0.00	55.18	3,537.57	NM	NM	NM	NM	NM
	09/27/23	<1.0	<2.0	<1.0	<2.0		<0.06	<0.151	0.00	55.39	3,537.36	NM	NM	NM	NM	NM
	11/30/23	NS	NS	NS	NS		NS	NS	0.00	55.47	3,537.28	NM	NM	NM	NM	NM
	03/06/24	NS	NS	NS	NS		NS	NS	0.00	55.55	3,537.20	NM	NM	NM	NM	NM
	06/26/24	<1.0	<2.0	<1.0	<2.0		<0.06	<0.153	0.00	55.72	3,537.03	NM	NM	NM	NM	NM
	09/04/24	<1.0	<2.0	<1.0	<2.0		<0.06	<0.149	0.00	55.84	3,536.91	18.56	9.35	7.33	6.92	181.90
	12/03/24	NS	NS	NS	NS		NS	NS	0.00	55.93	3,536.82	NM	NM	NM	NM	NM

Appendix B
Summary of Historical Groundwater Analytical Results and Field Parameters
HF Sinclair- Hobbs Tank 5201

Monitor Well ID/ MP Elevation	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/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	NM	NM	NS	NS	NS	NS	NS
	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
	03/23/22	585	18.3	12.0	21.9		1.28	<0.153	0.00	50.28	3,537.86	20.4	1.228	1.09	7.06	10.2
	06/01/22	1.53	1.38	<1.0	<2.0		<0.06	<0.151	0.00	50.34	3,537.80	21.6	1.387	1.12	7.21	22.3
	09/28/22	0.429	<2.0	<1.0	<2.0		<0.06	0.321	0.00	50.56	3,537.58	22.9	1.438	2.13	7.18	54.3
	12/07/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.149	0.00	50.68	3,537.46	NM	NM	NM	NM	NM
	03/31/23	21.5	8.58	1.30	2.86		0.223	0.285	0.00	50.81	3,537.33	NM	NM	NM	NM	NM
duplicate	03/31/23	7.99	3.18	0.783	1.59		0.189	0.282	0.00	50.81	3,537.33	NM	NM	NM	NM	NM
	05/31/23	10.5	5.20	0.728	1.09		0.129	<0.149	0.00	50.86	3,537.28	NM	NM	NM	NM	NM
duplicate	05/31/23	10.2	4.94	0.645	1.11		<0.06	0.153	0.00	50.86	3,537.28	NM	NM	NM	NM	NM
	09/27/23	4.60	1.98	<1.0	0.332		0.081	<0.148	0.00	51.11	3,537.03	NM	NM	NM	NM	NM
duplicate	09/27/23	5.81	2.47	0.345	0.354		0.075	<0.148	0.00	51.11	3,537.03	NM	NM	NM	NM	NM
	11/30/23	3.50	<2.0	<1.0	<2.0		<0.06	<0.151	0.00	51.19	3,536.95	NM	NM	NM	NM	NM
duplicate	11/30/23	3.60	<2.0	<1.0	<2.0		<0.06	<0.152	0.00	51.19	3,536.95	NM	NM	NM	NM	NM
	03/06/24	<1.0	<2.0	<1.0	<2.0		<0.06	0.148	0.00	51.24	3,536.90	NM	NM	NM	NM	NM
duplicate	03/06/24	<1.0	<2.0	<1.0	<2.0		<0.06	<0.148	0.00	51.24	3,536.90	NM	NM	NM	NM	NM
	06/26/24	1.23	<2.0	<1.0	<2.0		<0.06	<0.148	0.00	51.50	3,536.64	21.4	1.05	2.68	7.52	226
	09/04/24	2.14	1.21	<1.0	<2.0		<0.06	<0.147	0.00	51.68	3,536.46	18.6	1.99	1.94	6.75	206
	12/03/24	4.38	1.73	0.352	<2.0		0.065	<0.150	0.00	51.66	3,536.48	NM	NM	NM	NM	NM
duplicate	12/03/24	2.98	1.24	<1.0	<2.0		<0.06	<0.152	0.00	51.66	3,536.48	NM	NM	NM	NM	NM
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
	03/23/22	NS	NS	NS	NS	NS	NS	NS	0.00	49.69	3,537.82	NS	NS	NS	NS	NS
	06/01/22	NS	NS	NS	NS	NS	NS	NS	0.00	49.76	3,537.75	NS	NS	NS	NS	NS
	09/28/22	NS	NS	NS	NS	NS	NS	NS	0.00	49.99	3,537.52	NS	NS	NS	NS	NS
	12/07/22	NS	NS	NS	NS	NS	NS	NS	0.00	49.98	3,537.53	NS	NS	NS	NS	NS
	03/31/23	NS	NS	NS	NS	NS	NS	NS	0.00	50.13	3,537.38	NS	NS	NS	NS	NS
	05/31/23	NS	NS	NS	NS	NS	NS	NS	0.00	50.16	3,537.35	NS	NS	NS	NS	NS
	09/27/23	NS	NS	NS	NS	NS	NS	NS	0.00	50.43	3,537.08	NS	NS	NS	NS	NS
	11/30/23	NS	NS	NS	NS	NS	NS	NS	0.00	50.47	3,537.04	NS	NS	NS	NS	NS
	03/06/24	NS	NS	NS	NS	NS	NS	NS	0.00	50.56	3,536.95	NS	NS	NS	NS	NS
	06/26/24	NS	NS	NS	NS	NS	NS	NS	0.00	50.72	3,536.79	NS	NS	NS	NS	NS
	09/04/24	NS	NS	NS	NS	NS	NS	NS	0.00	50.80	3,536.71	NS	NS	NS	NS	NS
	12/03/24	NS	NS	NS	NS	NS	NS	NS	0.00	50.95	3,536.56	NS	NS	NS	NS	NS

Appendix B
Summary of Historical Groundwater Analytical Results and Field Parameters
HF Sinclair- Hobbs Tank 5201

Monitor Well ID/ MP Elevation	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/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	6/25/13	NSP	NSP	NSP	NSP	NSP	NA	NA	0.01	45.88	3,542.88					
3588.75	12/11/13	NSP	NSP	NSP	NSP	NSP	NA	NA	0.00	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
	03/23/22	NS	NS	NS	NS		NS	NS	0.00	50.90	3,537.85	NS	NS	NS	NS	NS
	06/01/22	NS	NS	NS	NS		NS	NS	0.00	51.05	3,537.70	NS	NS	NS	NS	NS
	09/28/22	NS	NS	NS	NS		NS	NS	0.00	51.20	3,537.55	NS	NS	NS	NS	NS
	12/07/22	NS	NS	NS	NS		NS	NS	0.00	52.26	3,536.49	NS	NS	NS	NS	NS
	03/31/23	NS	NS	NS	NS		NS	NS	0.00	51.38	3,537.37	NS	NS	NS	NS	NS
	05/31/23	NS	NS	NS	NS		NS	NS	0.00	51.44	3,537.31	NS	NS	NS	NS	NS
	09/27/23	NS	NS	NS	NS		NS	NS	0.00	51.72	3,537.03	NS	NS	NS	NS	NS
	11/30/23	NS	NS	NS	NS		NS	NS	0.00	51.75	3,537.00	NS	NS	NS	NS	NS
	03/06/24	NS	NS	NS	NS		NS	NS	0.00	51.88	3,536.87	NS	NS	NS	NS	NS
	06/26/24	NS	NS	NS	NS		NS	NS	0.00	52.02	3,536.73	NS	NS	NS	NS	NS
	09/04/24	NS	NS	NS	NS		NS	NS	0.00	52.13	3,536.62	NS	NS	NS	NS	NS
	12/03/24	NS	NS	NS	NS		NS	NS	0.00	52.21	3,536.54	NS	NS	NS	NS	NS
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	1590	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
	03/23/22	NS	NS	NS	NS	NS	NS	NS	0.00	50.65	3,537.92	NS	NS	NS	NS	NS
	06/01/22	NS	NS	NS	NS	NS	NS	NS	0.00	50.78	3,537.79	NS	NS	NS	NS	NS
	09/28/22	NS	NS	NS	NS	NS	NS	NS	0.00	51.03	3,537.54	NS	NS	NS	NS	NS
	12/07/22	NS	NS	NS	NS	NS	NS	NS	0.00	51.02	3,537.55	NS	NS	NS	NS	NS
	03/31/23	NS	NS	NS	NS	NS	NS	NS	0.00	51.20	3,537.37	NS	NS	NS	NS	NS
	05/31/23	NS	NS	NS	NS	NS	NS	NS	0.00	51.22	3,537.35	NS	NS	NS	NS	NS
	09/27/23	NS	NS	NS	NS	NS	NS	NS	0.00	51.56	3,537.01	NS	NS	NS	NS	NS
	11/30/23	NS	NS	NS	NS	NS	NS	NS	0.00	51.58	3,536.99	NS	NS	NS	NS	NS
	03/06/24	NS	NS	NS	NS	NS	NS	NS	0.00	51.63	3,536.94	NS	NS	NS	NS	NS
	06/26/24	NS	NS	NS	NS	NS	NS	NS	0.00	51.81	3,536.76	NS	NS	NS	NS	NS
	09/04/24	NS	NS	NS	NS	NS	NS	NS	0.00	52.95	3,535.62	NS	NS	NS	NS	NS
	12/03/24	NS	NS	NS	NS	NS	NS	NS	0.00	52.18	3,536.39	NS	NS	NS	NS	NS

Appendix B
Summary of Historical Groundwater Analytical Results and Field Parameters
HF Sinclair- Hobbs Tank 5201

Monitor Well ID/ MP Elevation	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/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**								
RW-1	03/23/22	NS	NS	NS	NS	NS	NS	NS	0.00	54.26	3,537.79	NM	NM	NM	NM	NM
3592.05	06/01/22	NS	NS	NS	NS	NS	NS	NS	0.00	54.35	3,537.70	NM	NM	NM	NM	NM
TD = 58.60	09/28/22	NS	NS	NS	NS	NS	NS	NS	0.00	54.59	3,537.46	NM	NM	NM	NM	NM
	12/07/22	NS	NS	NS	NS	NS	NS	NS	0.00	54.62	3,537.43	NM	NM	NM	NM	NM
	03/31/23	NS	NS	NS	NS	NS	NS	NS	0.00	55.78	3,536.27	NM	NM	NM	NM	NM
	05/31/23	NS	NS	NS	NS	NS	NS	NS	0.00	54.85	3,537.20	NM	NM	NM	NM	NM
	09/27/23	**77.3**	24.4	1.58	23.0	126.3	<0.06	0.697	0.00	55.04	3,537.01	NM	NM	NM	NM	NM
	11/30/23	NS	NS	NS	NS	NS	NS	NS	0.00	55.18	3,536.87	NM	NM	NM	NM	NM
	03/06/24	NS	NS	NS	NS	NS	NS	NS	0.00	55.21	3,536.84	NM	NM	NM	NM	NM
	06/26/24	NS	NS	NS	NS	NS	NS	NS	0.00	55.41	3,536.64	NM	NM	NM	NM	NM
	09/04/24	NS	NS	NS	NS	NS	NS	NS	0.00	55.50	3,536.55	NM	NM	NM	NM	NM
	12/03/24	NS	NS	NS	NS	NS	NS	NS	0.00	55.64	3,536.41	NM	NM	NM	NM	NM

Notes:
BOLD = Exceeds New Mexico Water Quality Commission (NMWQC) Standard
µg/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-Celcius
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 Oganics
TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Oganics
BTEX analyzed by Method 8260C
TPH-GRO analyzed by Method 8015V
TPH-DRO analyzed by Method 8015D

Appendix C

Laboratory Reports

March 19, 2024

Jeffrey Cloud
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (720) 974-0935
FAX:

Order No.: 2403072

RE: HF Sinclair - Hobbs Tank

Dear Jeffrey Cloud:

DHL Analytical, Inc. received 3 sample(s) on 3/7/2024 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,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-23-29

Table of Contents

DHL ANALYTICAL

2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

PAGE 1 OF 1

CLIENT: HF Sinclair - Hobbs Tank	DATE: 3/6/2024
ADDRESS: 1526 Cole Blvd Suite 275 Lakewood CO	PO#:
PHONE: 303-325-4425 EMAIL: Erin.Sullivan@ghd.com	LAB USE ONLY DHL WORKORDER #: 2403072
DATA REPORTED TO: Erin Sullivan, Brad Stephenson	PROJECT LOCATION OR NAME: HF Sinclair - Hobbs Tank
ADDITIONAL REPORT COPIES TO: Jeffrey Cloud	CLIENT PROJECT # 12630714 COLLECTOR: Erin Sullivan

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER, L=LIQUID, S=SOIL, SO=SOLID, SE=SEDIMENT, P=PAINT, SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ☐ H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐ Zn Acetate ☐	ICE ☐ UNPRESERVED ☒	BTEX ☒ MTBE ☐ [METHOD 8260]	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO 8015 ☒ DRO 8015 ☒	VOC 8260 ☐ VOC 624.1 ☐	SVOC 8270 ☐ SVOC 625.1 ☐	PAH 8270 ☐ HOLD PAH ☐	PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐	PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐	HERB 8321 ☐ T PHOS ☐ AMMONIA ☐	METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐	RCRA 8 ☐ TX11 ☐ ___	pH☐ HEX CHROM☐ ALKALINITY☐ COD☐	ANIONS 300 ☐ 9056 ☐ ___	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ IGN ☐ DGAS ☐ OIL&GREASE ☐	TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐	FIELD NOTES
HTRW-1	01	3/6/24	0902	W		8						X		X															
HTRW-1D	02	3/6/24	0902	W		8						X		X															
TRIP BLANK	03	–	–	–		4						X		X ~~DRO~~ GRO															

Relinquished By: (Sign)	DATE/TIME	Received by:
Erin Sullivan	3/6/24 1520	Fedex
Fedex	3/7/24 0939	[signature]

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ☐ OTHER ☐
DUE DATE ______ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 0.6°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☒ INTACT ☐ NOT USED
CARRIER: ☐ LSO ☒ FEDEX ☐ UPS ☐ COURIER ☐ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

ORIGIN ID:HOBA (303) 325-4425
GHD
14998 W 6TH AVE STE 800
GOLDEN, CO 80401
UNITED STATES US

SHIP DATE: 06MAR24
ACTWGT: 35.10 LB
CAD: 6994246/SSFE2500
DIMS: 17x15x12 IN
BILL THIRD PARTY

TO REFERENCE #12630714
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx
Express
E

THU - 07 MAR 10:30A
TRK# 0201 2718 4314 1061
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US AUS

DHL ANALYTICAL

CUSTODY SEAL
DATE 3/6/2024
SIGNATURE [signature]

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **GHD** Date Received: **3/7/2024**

Work Order Number: **2403072** Received by: **KAO**

Checklist completed by: _____ 3/7/2024 Reviewed by: _____ 3/7/2024
Signature Date Initials Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	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 ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1
Temp °C 0.6
Seal Intact Y

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:** *19-Mar-24*

CLIENT: GHD
Project: HF Sinclair - Hobbs Tank
Lab Order: 2403072

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.

DHL Analytical, Inc.

Date: *19-Mar-24*

CLIENT:	GHD	**Client Sample ID:**	HTRW-1
Project:	HF Sinclair - Hobbs Tank	**Lab ID:**	2403072-01
Project No:	12630714	**Collection Date:**	03/06/24 09:02 AM
Lab Order:	2403072	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	0.148	0.147	0.184	J	mg/L	1	03/18/24 01:53 PM
Surr: Isopropylbenzene	73.0	0	25-124		%REC	1	03/18/24 01:53 PM
Surr: Octacosane	71.8	0	51-124		%REC	1	03/18/24 01:53 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	03/18/24 01:12 PM
Surr: Tetrachlorethene	97.0	0	74-138		%REC	1	03/18/24 01:12 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 08:10 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 08:10 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/07/24 08:10 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 08:10 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/07/24 08:10 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 08:10 PM
Surr: 1,2-Dichloroethane-d4	99.5	0	72-119		%REC	1	03/07/24 08:10 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	1	03/07/24 08:10 PM
Surr: Dibromofluoromethane	99.0	0	85-115		%REC	1	03/07/24 08:10 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	03/07/24 08:10 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: *19-Mar-24*

CLIENT:	GHD	**Client Sample ID:**	HTRW-1D
Project:	HF Sinclair - Hobbs Tank	**Lab ID:**	2403072-02
Project No:	12630714	**Collection Date:**	03/06/24 09:02 AM
Lab Order:	2403072	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.148	0.148	0.185		mg/L	1	03/18/24 02:02 PM
Surr: Isopropylbenzene	65.3	0	25-124		%REC	1	03/18/24 02:02 PM
Surr: Octacosane	70.0	0	51-124		%REC	1	03/18/24 02:02 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	03/18/24 01:34 PM
Surr: Tetrachlorethene	98.1	0	74-138		%REC	1	03/18/24 01:34 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 08:34 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 08:34 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/07/24 08:34 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 08:34 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/07/24 08:34 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 08:34 PM
Surr: 1,2-Dichloroethane-d4	99.7	0	72-119		%REC	1	03/07/24 08:34 PM
Surr: 4-Bromofluorobenzene	100	0	76-119		%REC	1	03/07/24 08:34 PM
Surr: Dibromofluoromethane	99.0	0	85-115		%REC	1	03/07/24 08:34 PM
Surr: Toluene-d8	98.2	0	81-120		%REC	1	03/07/24 08:34 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: *19-Mar-24*

CLIENT:	GHD	**Client Sample ID:**	Trip Blank
Project:	HF Sinclair - Hobbs Tank	**Lab ID:**	2403072-03
Project No:	12630714	**Collection Date:**	03/06/24
Lab Order:	2403072	**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	03/18/24 12:48 PM
Surr: Tetrachlorethene	98.0	0	74-138		%REC	1	03/18/24 12:48 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 06:32 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 06:32 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/07/24 06:32 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 06:32 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/07/24 06:32 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	03/07/24 06:32 PM
Surr: 1,2-Dichloroethane-d4	99.4	0	72-119		%REC	1	03/07/24 06:32 PM
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	03/07/24 06:32 PM
Surr: Dibromofluoromethane	98.2	0	85-115		%REC	1	03/07/24 06:32 PM
Surr: Toluene-d8	98.5	0	81-120		%REC	1	03/07/24 06:32 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:** *19-Mar-24*

CLIENT: GHD
Work Order: 2403072
Project: HF Sinclair - Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_240318A

The QC data in batch 114461 applies to the following samples: 2403072-01C, 2403072-02C

Sample ID: **MB-114461** Batch ID: **114461** TestNo: **M8015D** Units: **mg/L**
SampType: **MBLK** Run ID: **GC15_240318A** Analysis Date: **3/18/2024 12:48:14 PM** Prep Date: **3/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0554		0.1000		55.4	25	124			
Surr: Octacosane	0.0694		0.1000		69.4	51	124			

Sample ID: **LCS-114461** Batch ID: **114461** TestNo: **M8015D** Units: **mg/L**
SampType: **LCS** Run ID: **GC15_240318A** Analysis Date: **3/18/2024 12:57:06 PM** Prep Date: **3/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.21	0.100	1.250	0	96.4	50	114			
Surr: Isopropylbenzene	0.0628		0.1000		62.8	25	124			
Surr: Octacosane	0.0759		0.1000		75.9	51	124			

Sample ID: **LCSD-114461** Batch ID: **114461** TestNo: **M8015D** Units: **mg/L**
SampType: **LCSD** Run ID: **GC15_240318A** Analysis Date: **3/18/2024 1:05:58 PM** Prep Date: **3/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.15	0.100	1.250	0	91.9	50	114	4.81	30	
Surr: Isopropylbenzene	0.0566		0.1000		56.6	25	124	0	0	
Surr: Octacosane	0.0717		0.1000		71.7	51	124	0	0	

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

CLIENT: GHD
Work Order: 2403072
Project: HF Sinclair - Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_240318A

The QC data in batch 114527 applies to the following samples: 2403072-01B, 2403072-02B, 2403072-03B

Sample ID: **LCS-114527**	Batch ID: **114527**	TestNo: **M8015V**	Units: **mg/L**
SampType: **LCS**	Run ID: **GC4_240318A**	Analysis Date: **3/18/2024 10:21:47 AM**	Prep Date: **3/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.47	0.100	2.500	0	98.7	67	136			
Surr: Tetrachlorethene	0.328		0.4000		82.0	74	138			

Sample ID: **LCSD-114527**	Batch ID: **114527**	TestNo: **M8015V**	Units: **mg/L**
SampType: **LCSD**	Run ID: **GC4_240318A**	Analysis Date: **3/18/2024 10:44:15 AM**	Prep Date: **3/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.47	0.100	2.500	0	98.7	67	136	0.011	30	
Surr: Tetrachlorethene	0.348		0.4000		86.9	74	138	0	0	

Sample ID: **MB-114527**	Batch ID: **114527**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GC4_240318A**	Analysis Date: **3/18/2024 11:52:15 AM**	Prep Date: **3/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.0600	0.100								
Surr: Tetrachlorethene	0.387		0.4000		96.7	74	138			

Sample ID: **2403072-01BMS**	Batch ID: **114527**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MS**	Run ID: **GC4_240318A**	Analysis Date: **3/18/2024 3:33:20 PM**	Prep Date: **3/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.35	0.100	2.500	0	93.9	67	136			
Surr: Tetrachlorethene	0.371		0.4000		92.7	74	138			

Sample ID: **2403072-01BMSD**	Batch ID: **114527**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MSD**	Run ID: **GC4_240318A**	Analysis Date: **3/18/2024 3:56:48 PM**	Prep Date: **3/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.52	0.100	2.500	0	101	67	136	7.00	30	
Surr: Tetrachlorethene	0.422		0.4000		105	74	138	0	0	

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

CLIENT: GHD
Work Order: 2403072
Project: HF Sinclair - Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240307A

The QC data in batch 114378 applies to the following samples: 2403072-01A, 2403072-02A, 2403072-03A

Sample ID: **LCS-114378** Batch ID: **114378** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_240307A** Analysis Date: **3/7/2024 12:50:00 PM** Prep Date: **3/7/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0203	0.00100	0.0232	0	87.3	81	122			
Ethylbenzene	0.0206	0.00100	0.0232	0	88.7	80	120			
m,p-Xylene	0.0418	0.00200	0.0464	0	90.0	80	120			
o-Xylene	0.0206	0.00100	0.0232	0	88.6	80	120			
Toluene	0.0204	0.00200	0.0232	0	87.8	80	120			
Total Xylenes	0.0623	0.00100	0.0696	0	89.6	80	120			
Surr: 1,2-Dichloroethane-d4	203		200.0		102	72	119			
Surr: 4-Bromofluorobenzene	203		200.0		101	76	119			
Surr: Dibromofluoromethane	196		200.0		97.9	85	115			
Surr: Toluene-d8	201		200.0		101	81	120			

Sample ID: **MB-114378** Batch ID: **114378** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_240307A** Analysis Date: **3/7/2024 1:39:00 PM** Prep Date: **3/7/2024**

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								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	200		200.0		100	72	119			
Surr: 4-Bromofluorobenzene	201		200.0		101	76	119			
Surr: Dibromofluoromethane	198		200.0		99.1	85	115			
Surr: Toluene-d8	195		200.0		97.7	81	120			

Sample ID: **SB-240307** Batch ID: **114378** TestNo: **SW8260D** Units: **mg/L**
SampType: **SBLK** Run ID: **GCMS7_240307A** Analysis Date: **3/7/2024 5:19:00 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							
Total Xylenes	<0.000300	0.00100	0							
Surr: 1,2-Dichloroethane-d4	200		0							
Surr: 4-Bromofluorobenzene	202		0							
Surr: Dibromofluoromethane	200		0							
Surr: Toluene-d8	195		0							

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

CLIENT: GHD
Work Order: 2403072
Project: HF Sinclair - Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240307A

Sample ID: **2403020-01AMS** Batch ID: **114378** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS7_240307A** Analysis Date: **3/8/2024 1:52:00 AM** Prep Date: **3/7/2024**

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			
Ethylbenzene	0.0220	0.00100	0.0232	0	94.7	80	120			
m,p-Xylene	0.0446	0.00200	0.0464	0	96.0	80	120			
o-Xylene	0.0223	0.00100	0.0232	0	96.2	80	120			
Toluene	0.0223	0.00200	0.0232	0	96.3	80	120			
Total Xylenes	0.0669	0.00100	0.0696	0	96.1	80	120			
Surr: 1,2-Dichloroethane-d4	196		200.0		98.0	72	119			
Surr: 4-Bromofluorobenzene	199		200.0		99.3	76	119			
Surr: Dibromofluoromethane	199		200.0		99.6	85	115			
Surr: Toluene-d8	198		200.0		99.2	81	120			

Sample ID: **2403020-01AMSD** Batch ID: **114378** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS7_240307A** Analysis Date: **3/8/2024 2:17:00 AM** Prep Date: **3/7/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0234	0.00100	0.0232	0	101	81	122	5.58	20	
Ethylbenzene	0.0237	0.00100	0.0232	0	102	80	120	7.50	20	
m,p-Xylene	0.0476	0.00200	0.0464	0	103	80	120	6.64	20	
o-Xylene	0.0235	0.00100	0.0232	0	101	80	120	5.28	20	
Toluene	0.0237	0.00200	0.0232	0	102	80	120	5.74	20	
Total Xylenes	0.0711	0.00100	0.0696	0	102	80	120	6.19	20	
Surr: 1,2-Dichloroethane-d4	198		200.0		99.0	72	119	0	0	
Surr: 4-Bromofluorobenzene	200		200.0		99.8	76	119	0	0	
Surr: Dibromofluoromethane	197		200.0		98.7	85	115	0	0	
Surr: Toluene-d8	199		200.0		99.7	81	120	0	0	

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

July 08, 2024

Erin Sullivan
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (303) 325-4425
FAX:

Order No.: 2406307

RE: HF Sinclair

Dear Erin Sullivan:

DHL Analytical, Inc. received 4 sample(s) on 6/27/2024 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,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: www.dhlanalytical.com
Email: login@dhlanalytical.com

CHAIN-OF-CUSTODY

CLIENT: GHD
ADDRESS: 2135 South Loop 250 West Midland, Texas 79703
PHONE: (303) 325-4425 EMAIL: erin.sullivan@ghd.com
DATA REPORTED TO: Erin Sullivan
ADD'L REPORT COPIES TO: B. Stephenson, J. Cloud

DATE: 6/26/24
PO#:
LAB USE ONLY
DHL WORKORDER # 2406307
PROJECT LOCATION OR NAME: HF Sinclair
CLIENT PROJECT #: 12630714
COLLECTOR: Erin Sullivan

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

PRESERVATIVES
#/L
# = Number Bottles
L = Preserve Code
N = HNO3 S = H2SO4 H = HCL O = NaOH
Z = NaOH-ZN P = H3PO4 X = None/Ice

Field Sample I.D.	Lab Use Only: DHL Lab #	Collection Date	Collection Time	Matrix	# of Containers	DRO	GRO WATER	VOC 8260_W	FIELD NOTES
HTRW-1	01	6/26/24	1155	AQUEOUS	8	2/X	3/X	3/X	
MW-5	02	"	0950	AQUEOUS	8	2/X	3/X	3/X	
MW-4	03	"	1105		8	2/X	3/X	3X	
Trip Blank	04	—			4		X	X	

Relinquished By: (Sign) Erin Sullivan — DATE/TIME 6/26/24 1315 — Received By: Fedex
Relinquished By: (Sign) Fedex — DATE/TIME 06/27/24 0826 — Received By: [signature]
Relinquished By: (Sign) — DATE/TIME — Received By:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY ☐ RUSH-2 DAY ☐
RUSH-3 DAY ☐
NORMAL ☐ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY
RECEIVING TEMP (°C) 1.4°C THERMO #: 78
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES/NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☑ INTACT ☐ NOT USED
CARRIER:
☐ LSO ☒ FEDEX ☐ UPS ☐ COURIER ☐ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

ORIGIN ID:HOBA (303) 325-4425

GHD
14998 W 6TH AVE STE 800

GOLDEN, CO 80401
UNITED STATES US

SHIP DATE: 26JUN24
ACTWGT: 48.35 LB
CAD: 6994246/SSFE2521
DIMS: 23x15x15 IN

BILL THIRD PARTY

TO

DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx Express

THU - 27 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 2763 8824 7504

A8 BSMA

78664
TX-US AUS

DHL ANALYTICAL

CUSTODY SEAL
DATE 6/26/24
SIGNATURE

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: GHD Date Received: 6/27/2024

Work Order Number: 2406307 Received by: SRM

Checklist completed by: _____ 6/27/2024 Reviewed by: VL 6/27/2024
Signature | Date | Initials | Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	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 ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 1.4

Seal Intact Y

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

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

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Page 1 of 1

DHL Analytical, Inc. **Date:** *08-Jul-24*

CLIENT: GHD
Project: HF Sinclair
Lab Order: 2406307

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.

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

DHL Analytical, Inc.

Date: *08-Jul-24*

CLIENT: GHD
Project: HF Sinclair
Lab Order: 2406307

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2406307-01	HTRW-1		06/26/24 11:55 AM	06/27/2024
2406307-02	MW-5		06/26/24 09:50 AM	06/27/2024
2406307-03	MW-4		06/26/24 11:05 AM	06/27/2024
2406307-04	Trip Blank		06/26/24	06/27/2024

DHL Analytical, Inc.

Date: *08-Jul-24*

CLIENT:	GHD	**Client Sample ID:**	HTRW-1
Project:	HF Sinclair	**Lab ID:**	2406307-01
Project No:	12630714	**Collection Date:**	06/26/24 11:55 AM
Lab Order:	2406307	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	<0.148	0.148	0.185		mg/L	1	07/05/24 01:34 PM
Surr: Isopropylbenzene	51.5	0	25-124		%REC	1	07/05/24 01:34 PM
Surr: Octacosane	76.9	0	51-124		%REC	1	07/05/24 01:34 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	06/27/24 05:25 PM
Surr: Tetrachlorethene	103	0	74-138		%REC	1	06/27/24 05:25 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	0.00123	0.000300	0.00100		mg/L	1	06/27/24 06:29 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 06:29 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/27/24 06:29 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 06:29 PM
Toluene	0.000726	0.000600	0.00200	J	mg/L	1	06/27/24 06:29 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 06:29 PM
Surr: 1,2-Dichloroethane-d4	87.7	0	72-119		%REC	1	06/27/24 06:29 PM
Surr: 4-Bromofluorobenzene	98.0	0	76-119		%REC	1	06/27/24 06:29 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	06/27/24 06:29 PM
Surr: Toluene-d8	102	0	81-120		%REC	1	06/27/24 06:29 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: *08-Jul-24*

CLIENT:	GHD	**Client Sample ID:**	MW-5
Project:	HF Sinclair	**Lab ID:**	2406307-02
Project No:	12630714	**Collection Date:**	06/26/24 09:50 AM
Lab Order:	2406307	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	<0.153	0.153	0.192		mg/L	1	07/05/24 01:43 PM
Surr: Isopropylbenzene	54.8	0	25-124		%REC	1	07/05/24 01:43 PM
Surr: Octacosane	81.3	0	51-124		%REC	1	07/05/24 01:43 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	06/27/24 05:48 PM
Surr: Tetrachlorethene	105	0	74-138		%REC	1	06/27/24 05:48 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 06:54 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 06:54 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/27/24 06:54 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 06:54 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/27/24 06:54 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 06:54 PM
Surr: 1,2-Dichloroethane-d4	88.4	0	72-119		%REC	1	06/27/24 06:54 PM
Surr: 4-Bromofluorobenzene	96.7	0	76-119		%REC	1	06/27/24 06:54 PM
Surr: Dibromofluoromethane	102	0	85-115		%REC	1	06/27/24 06:54 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	06/27/24 06:54 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: *08-Jul-24*

CLIENT:	GHD	**Client Sample ID:**	MW-4
Project:	HF Sinclair	**Lab ID:**	2406307-03
Project No:	12630714	**Collection Date:**	06/26/24 11:05 AM
Lab Order:	2406307	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	<0.156	0.156	0.195		mg/L	1	07/05/24 01:51 PM
Surr: Isopropylbenzene	79.6	0	25-124		%REC	1	07/05/24 01:51 PM
Surr: Octacosane	79.0	0	51-124		%REC	1	07/05/24 01:51 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	06/27/24 06:11 PM
Surr: Tetrachlorethene	104	0	74-138		%REC	1	06/27/24 06:11 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 07:20 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 07:20 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/27/24 07:20 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 07:20 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/27/24 07:20 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 07:20 PM
Surr: 1,2-Dichloroethane-d4	88.2	0	72-119		%REC	1	06/27/24 07:20 PM
Surr: 4-Bromofluorobenzene	94.3	0	76-119		%REC	1	06/27/24 07:20 PM
Surr: Dibromofluoromethane	102	0	85-115		%REC	1	06/27/24 07:20 PM
Surr: Toluene-d8	99.6	0	81-120		%REC	1	06/27/24 07:20 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: *08-Jul-24*

CLIENT:	GHD	**Client Sample ID:**	Trip Blank
Project:	HF Sinclair	**Lab ID:**	2406307-04
Project No:	12630714	**Collection Date:**	06/26/24
Lab Order:	2406307	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	0.140	0.0600	0.100		mg/L	1	06/27/24 07:18 PM
Surr: Tetrachlorethene	99.2	0	74-138		%REC	1	06/27/24 07:18 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 11:37 AM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 11:37 AM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/27/24 11:37 AM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 11:37 AM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	06/27/24 11:37 AM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	06/27/24 11:37 AM
Surr: 1,2-Dichloroethane-d4	89.5	0	72-119		%REC	1	06/27/24 11:37 AM
Surr: 4-Bromofluorobenzene	97.9	0	76-119		%REC	1	06/27/24 11:37 AM
Surr: Dibromofluoromethane	105	0	85-115		%REC	1	06/27/24 11:37 AM
Surr: Toluene-d8	103	0	81-120		%REC	1	06/27/24 11:37 AM

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:** *08-Jul-24*

CLIENT: GHD
Work Order: 2406307
Project: HF Sinclair

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_240705A

The QC data in batch 116083 applies to the following samples: 2406307-01C, 2406307-02C, 2406307-03C

Sample ID: **MB-116083** Batch ID: **116083** TestNo: **M8015D** Units: **mg/L**
SampType: **MBLK** Run ID: **GC15_240705A** Analysis Date: **7/5/2024 12:49:58 PM** Prep Date: **7/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0496		0.1000		49.6	25	124			
Surr: Octacosane	0.0799		0.1000		79.9	51	124			

Sample ID: **LCS-116083** Batch ID: **116083** TestNo: **M8015D** Units: **mg/L**
SampType: **LCS** Run ID: **GC15_240705A** Analysis Date: **7/5/2024 12:58:49 PM** Prep Date: **7/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.03	0.100	1.250	0	82.6	50	114			
Surr: Isopropylbenzene	0.0444		0.1000		44.4	25	124			
Surr: Octacosane	0.0840		0.1000		84.0	51	124			

Sample ID: **LCSD-116083** Batch ID: **116083** TestNo: **M8015D** Units: **mg/L**
SampType: **LCSD** Run ID: **GC15_240705A** Analysis Date: **7/5/2024 1:07:41 PM** Prep Date: **7/2/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.870	0.100	1.250	0	69.6	50	114	17.1	30	
Surr: Isopropylbenzene	0.0353		0.1000		35.3	25	124	0	0	
Surr: Octacosane	0.0791		0.1000		79.1	51	124	0	0	

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

CLIENT: GHD
Work Order: 2406307
Project: HF Sinclair

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_240627A

The QC data in batch 116031 applies to the following samples: 2406307-01B, 2406307-02B, 2406307-03B, 2406307-04B

Sample ID: **LCS-116031** Batch ID: **116031** TestNo: **M8015V** Units: **mg/L**
SampType: **LCS** Run ID: **GC4_240627A** Analysis Date: **6/27/2024 3:53:51 PM** Prep Date: **6/27/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.49	0.100	2.500	0	99.4	67	136			
Surr: Tetrachlorethene	0.414		0.4000		103	74	138			

Sample ID: **MB-116031** Batch ID: **116031** TestNo: **M8015V** Units: **mg/L**
SampType: **MBLK** Run ID: **GC4_240627A** Analysis Date: **6/27/2024 5:02:39 PM** Prep Date: **6/27/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.0600	0.100								
Surr: Tetrachlorethene	0.407		0.4000		102	74	138			

Sample ID: **2406307-03BMS** Batch ID: **116031** TestNo: **M8015V** Units: **mg/L**
SampType: **MS** Run ID: **GC4_240627A** Analysis Date: **6/27/2024 6:33:32 PM** Prep Date: **6/27/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.19	0.100	2.500	0	87.7	67	136			
Surr: Tetrachlorethene	0.356		0.4000		89.1	74	138			

Sample ID: **2406307-03BMSD** Batch ID: **116031** TestNo: **M8015V** Units: **mg/L**
SampType: **MSD** Run ID: **GC4_240627A** Analysis Date: **6/27/2024 6:56:13 PM** Prep Date: **6/27/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.62	0.100	2.500	0	105	67	136	17.9	30	
Surr: Tetrachlorethene	0.408		0.4000		102	74	138	0	0	

Sample ID: **LCSD-116031** Batch ID: **116031** TestNo: **M8015V** Units: **mg/L**
SampType: **LCSD** Run ID: **GC4_240627A** Analysis Date: **6/27/2024 8:25:34 PM** Prep Date: **6/27/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.19	0.100	2.500	0	87.7	67	136	12.6	30	
Surr: Tetrachlorethene	0.297		0.4000		74.3	74	138	0	0	

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

CLIENT: GHD
Work Order: 2406307
Project: HF Sinclair

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240627A

The QC data in batch 116003 applies to the following samples: 2406307-01A, 2406307-02A, 2406307-03A, 2406307-04A

Sample ID: **LCS-116003** Batch ID: **116003** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_240627A** Analysis Date: **6/27/2024 10:20:00 AM** Prep Date: **6/27/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0246	0.00100	0.0232	0	106	81	122			
Ethylbenzene	0.0242	0.00100	0.0232	0	104	80	120			
m,p-Xylene	0.0488	0.00200	0.0464	0	105	80	120			
o-Xylene	0.0243	0.00100	0.0232	0	105	80	120			
Toluene	0.0247	0.00200	0.0232	0	106	80	120			
Total Xylenes	0.0731	0.00100	0.0696	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	182		200.0		91.2	72	119			
Surr: 4-Bromofluorobenzene	184		200.0		91.8	76	119			
Surr: Dibromofluoromethane	202		200.0		101	85	115			
Surr: Toluene-d8	198		200.0		98.9	81	120			

Sample ID: **MB-116003** Batch ID: **116003** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_240627A** Analysis Date: **6/27/2024 11:12:00 AM** Prep Date: **6/27/2024**

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								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	179		200.0		89.4	72	119			
Surr: 4-Bromofluorobenzene	196		200.0		98.0	76	119			
Surr: Dibromofluoromethane	208		200.0		104	85	115			
Surr: Toluene-d8	208		200.0		104	81	120			

Sample ID: **2406306-01AMS** Batch ID: **116003** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS5_240627A** Analysis Date: **6/27/2024 7:46:00 PM** Prep Date: **6/27/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.234	0.0100	0.232	0	101	81	122			
Ethylbenzene	0.227	0.0100	0.232	0	97.8	80	120			
m,p-Xylene	0.456	0.0200	0.464	0	98.2	80	120			
o-Xylene	0.227	0.0100	0.232	0	97.7	80	120			
Toluene	0.235	0.0200	0.232	0	101	80	120			
Total Xylenes	0.682	0.0100	0.696	0	98.0	80	120			
Surr: 1,2-Dichloroethane-d4	1800		2000		90.2	72	119			
Surr: 4-Bromofluorobenzene	1790		2000		89.7	76	119			
Surr: Dibromofluoromethane	2030		2000		101	85	115			
Surr: Toluene-d8	1900		2000		95.1	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

CLIENT: GHD
Work Order: 2406307
Project: HF Sinclair

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240627A

Sample ID: **2406306-01AMSD** Batch ID: **116003** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS5_240627A** Analysis Date: **6/27/2024 8:11:00 PM** Prep Date: **6/27/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.225	0.0100	0.232	0	97.1	81	122	3.85	20	
Ethylbenzene	0.222	0.0100	0.232	0	95.7	80	120	2.12	20	
m,p-Xylene	0.443	0.0200	0.464	0	95.5	80	120	2.81	20	
o-Xylene	0.220	0.0100	0.232	0	95.0	80	120	2.77	20	
Toluene	0.226	0.0200	0.232	0	97.4	80	120	4.11	20	
Total Xylenes	0.663	0.0100	0.696	0	95.3	80	120	2.80	20	
Surr: 1,2-Dichloroethane-d4	1750		2000		87.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	1840		2000		91.9	76	119	0	0	
Surr: Dibromofluoromethane	2020		2000		101	85	115	0	0	
Surr: Toluene-d8	1890		2000		94.6	81	120	0	0	

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

DHL ANALYTICAL

September 16, 2024

Erin Sullivan
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (303) 325-4425
FAX:

Order No.: 2409025

RE: HF Sinclair Tank

Dear Erin Sullivan:

DHL Analytical, Inc. received 4 sample(s) on 9/5/2024 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,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: www.dhlanalytical.com
Email: login@dhlanalytical.com

CHAIN-OF-CUSTODY

CLIENT: GHD
ADDRESS: 2135 South Loop 250 West Midland, Texas 79703
PHONE: (303) 325-4425 EMAIL: erin.sullivan@ghd.com
DATA REPORTED TO: Erin Sullivan
ADD'L REPORT COPIES TO:

DATE: 9/4/24
PO#:
PROJECT LOCATION OR NAME: HF Sinclair Tank
CLIENT PROJECT #: HF Sinclair
COLLECTOR: E. Sullivan

LAB USE ONLY
DHL WORKORDER # 2409025

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Field Sample I.D.	DHL Lab #	Collection Date	Collection Time	Matrix	# of Containers	250GAMU	DRO	VOAU	8260-BTEX	GRO WATER	FIELD NOTES
MW-5	01	9/4/24	1110	AQUEOUS	8	-->	2	-->	3	3	
MW-4	02	9/4/24	1145	AQUEOUS	8	-->	2	-->	3	3	
HTRW-1	03	9/4/24	1345	AQUEOUS	8	-->	2	-->	3	3	
Trip Blank	04	—	—	Aqueous	4				2	2	

Relinquished By: (Sign) Erin Sullivan — DATE/TIME 9/4/24 1600 — Received By: Fedex
Relinquished By: (Sign) Fedex — DATE/TIME 9/5/24 0947 — Received By:
Relinquished By: (Sign) — DATE/TIME — Received By:

☐ DHL DISPOSAL @ $10.00 each

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY ☐ RUSH-2 DAY ☐
RUSH-3 DAY ☐
NORMAL ☐ OTHER ☐
DUE DATE _____

LAB USE ONLY
RECEIVING TEMP (°C) 3.2°C THERMO #: 78
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES/NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☑ INTACT ☐ NOT USED
CARRIER:
☐ LSO ☑ FEDEX ☐ UPS ☐ COURIER ☐ HAND DELIVERED

DHL COC REV 4(D) | MAR 2023

ORIGIN ID:HOBA (303) 325-4425
GHD
14998 W 6TH AVE STE 800

GOLDEN, CO 80401
UNITED STATES US

SHIP DATE: 04SEP24
ACTWGT: 16.40 LB
CAD: 6994246/SSFE2541
DIMS: 17x12x15 IN

BILL THIRD PARTY

TO DHL ANALYTICAL
REF#: 12630714
2300 COUBLE CREEK RD

ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx
Express

E

J243024071301uv

TRK# 0201 2791 1640 0962

THU - 05 SEP 10:30A
PRIORITY OVERNIGHT
AHS
78664
TX-US AUS

A8 BSMA

DHL
ANALYTICAL

CUSTODY SEAL

DATE 9/4/24

SIGNATURE

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **GHD** Date Received: **9/5/2024**

Work Order Number: **2409025** Received by: **KAO**

Checklist completed by: _____ 9/5/2024 Reviewed by: _____ 9/5/2024
Signature | Date | Initials | Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	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 ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 3.2

Seal Intact Y

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

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

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Page 1 of 1

DHL Analytical, Inc. **Date:** *16-Sep-24*

CLIENT: GHD
Project: HF Sinclair Tank
Lab Order: 2409025

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.

For Volatiles analysis an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

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

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

DHL Analytical, Inc.

Date: *16-Sep-24*

CLIENT: GHD
Project: HF Sinclair Tank
Lab Order: 2409025

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2409025-01	MW-5		09/04/24 11:10 AM	09/05/2024
2409025-02	MW-4		09/04/24 11:45 AM	09/05/2024
2409025-03	HTRW-1		09/04/24 01:45 PM	09/05/2024
2409025-04	Trip Blank		09/04/24	09/05/2024

DHL Analytical, Inc.

Date: *16-Sep-24*

CLIENT:	GHD	**Client Sample ID:**	MW-5
Project:	HF Sinclair Tank	**Lab ID:**	2409025-01
Project No:	HF Sinclair	**Collection Date:**	09/04/24 11:10 AM
Lab Order:	2409025	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	<0.149	0.149	0.186		mg/L	1	09/10/24 01:46 PM
Surr: Isopropylbenzene	66.4	0	25-124		%REC	1	09/10/24 01:46 PM
Surr: Octacosane	79.2	0	51-124		%REC	1	09/10/24 01:46 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	09/06/24 01:04 PM
Surr: Tetrachlorethene	95.9	0	74-138		%REC	1	09/06/24 01:04 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 02:51 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 02:51 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	09/05/24 02:51 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 02:51 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	09/05/24 02:51 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 02:51 PM
Surr: 1,2-Dichloroethane-d4	99.4	0	72-119		%REC	1	09/05/24 02:51 PM
Surr: 4-Bromofluorobenzene	100	0	76-119		%REC	1	09/05/24 02:51 PM
Surr: Dibromofluoromethane	105	0	85-115		%REC	1	09/05/24 02:51 PM
Surr: Toluene-d8	95.4	0	81-120		%REC	1	09/05/24 02:51 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: *16-Sep-24*

CLIENT:	GHD	**Client Sample ID:**	MW-4
Project:	HF Sinclair Tank	**Lab ID:**	2409025-02
Project No:	HF Sinclair	**Collection Date:**	09/04/24 11:45 AM
Lab Order:	2409025	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	0.166	0.154	0.193	J	mg/L	1	09/10/24 01:55 PM
Surr: Isopropylbenzene	62.0	0	25-124		%REC	1	09/10/24 01:55 PM
Surr: Octacosane	81.1	0	51-124		%REC	1	09/10/24 01:55 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	09/06/24 01:26 PM
Surr: Tetrachlorethene	95.9	0	74-138		%REC	1	09/06/24 01:26 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 03:15 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 03:15 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	09/05/24 03:15 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 03:15 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	09/05/24 03:15 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 03:15 PM
Surr: 1,2-Dichloroethane-d4	98.4	0	72-119		%REC	1	09/05/24 03:15 PM
Surr: 4-Bromofluorobenzene	99.6	0	76-119		%REC	1	09/05/24 03:15 PM
Surr: Dibromofluoromethane	105	0	85-115		%REC	1	09/05/24 03:15 PM
Surr: Toluene-d8	96.3	0	81-120		%REC	1	09/05/24 03:15 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: *16-Sep-24*

CLIENT:	GHD	**Client Sample ID:**	HTRW-1
Project:	HF Sinclair Tank	**Lab ID:**	2409025-03
Project No:	HF Sinclair	**Collection Date:**	09/04/24 01:45 PM
Lab Order:	2409025	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	<0.147	0.147	0.184		mg/L	1	09/10/24 02:04 PM
Surr: Isopropylbenzene	35.9	0	25-124		%REC	1	09/10/24 02:04 PM
Surr: Octacosane	65.9	0	51-124		%REC	1	09/10/24 02:04 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	09/06/24 01:49 PM
Surr: Tetrachlorethene	96.6	0	74-138		%REC	1	09/06/24 01:49 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	0.00214	0.000300	0.00100		mg/L	1	09/05/24 03:40 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 03:40 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	09/05/24 03:40 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 03:40 PM
Toluene	0.00121	0.000600	0.00200	J	mg/L	1	09/05/24 03:40 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 03:40 PM
Surr: 1,2-Dichloroethane-d4	97.0	0	72-119		%REC	1	09/05/24 03:40 PM
Surr: 4-Bromofluorobenzene	99.2	0	76-119		%REC	1	09/05/24 03:40 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	09/05/24 03:40 PM
Surr: Toluene-d8	98.4	0	81-120		%REC	1	09/05/24 03:40 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: *16-Sep-24*

CLIENT:	GHD	**Client Sample ID:**	Trip Blank
Project:	HF Sinclair Tank	**Lab ID:**	2409025-04
Project No:	HF Sinclair	**Collection Date:**	09/04/24
Lab Order:	2409025	**Matrix:**	TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	09/06/24 02:11 PM
Surr: Tetrachlorethene	96.1	0	74-138		%REC	1	09/06/24 02:11 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 02:27 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 02:27 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	09/05/24 02:27 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 02:27 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	09/05/24 02:27 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	09/05/24 02:27 PM
Surr: 1,2-Dichloroethane-d4	98.6	0	72-119		%REC	1	09/05/24 02:27 PM
Surr: 4-Bromofluorobenzene	100	0	76-119		%REC	1	09/05/24 02:27 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	09/05/24 02:27 PM
Surr: Toluene-d8	96.8	0	81-120		%REC	1	09/05/24 02:27 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:** *16-Sep-24*

CLIENT: GHD
Work Order: 2409025
Project: HF Sinclair Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_240910A

The QC data in batch 117094 applies to the following samples: 2409025-01C, 2409025-02C, 2409025-03C

Sample ID: **MB-117094** Batch ID: **117094** TestNo: **M8015D** Units: **mg/L**
SampType: **MBLK** Run ID: **GC15_240910A** Analysis Date: **9/10/2024 1:19:43 PM** Prep Date: **9/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0277		0.1000		27.7	25	124			
Surr: Octacosane	0.0682		0.1000		68.2	51	124			

Sample ID: **LCS-117094** Batch ID: **117094** TestNo: **M8015D** Units: **mg/L**
SampType: **LCS** Run ID: **GC15_240910A** Analysis Date: **9/10/2024 1:28:35 PM** Prep Date: **9/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.844	0.100	1.250	0	67.6	50	114			
Surr: Isopropylbenzene	0.0387		0.1000		38.7	25	124			
Surr: Octacosane	0.0766		0.1000		76.6	51	124			

Sample ID: **LCSD-117094** Batch ID: **117094** TestNo: **M8015D** Units: **mg/L**
SampType: **LCSD** Run ID: **GC15_240910A** Analysis Date: **9/10/2024 1:37:27 PM** Prep Date: **9/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.858	0.100	1.250	0	68.7	50	114	1.65	30	
Surr: Isopropylbenzene	0.0270		0.1000		27.0	25	124	0	0	
Surr: Octacosane	0.0762		0.1000		76.2	51	124	0	0	

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

CLIENT: GHD
Work Order: 2409025
Project: HF Sinclair Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_240906B

The QC data in batch 117078 applies to the following samples: 2409025-01B, 2409025-02B, 2409025-03B, 2409025-04B

Sample ID: **LCS-117078**	Batch ID: **117078**	TestNo: **M8015V**	Units: **mg/L**
SampType: **LCS**	Run ID: **GC4_240906B**	Analysis Date: **9/6/2024 11:34:40 AM**	Prep Date: **9/6/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.38	0.100	2.500	0	95.1	67	136			
Surr: Tetrachlorethene	0.329		0.4000		82.2	74	138			

Sample ID: **MB-117078**	Batch ID: **117078**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GC4_240906B**	Analysis Date: **9/6/2024 12:41:42 PM**	Prep Date: **9/6/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.0600	0.100								
Surr: Tetrachlorethene	0.382		0.4000		95.6	74	138			

Sample ID: **2409025-01BMS**	Batch ID: **117078**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MS**	Run ID: **GC4_240906B**	Analysis Date: **9/6/2024 2:44:41 PM**	Prep Date: **9/6/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.18	0.100	2.500	0	87.3	67	136			
Surr: Tetrachlorethene	0.355		0.4000		88.7	74	138			

Sample ID: **2409025-01BMSD**	Batch ID: **117078**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MSD**	Run ID: **GC4_240906B**	Analysis Date: **9/6/2024 3:06:50 PM**	Prep Date: **9/6/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.33	0.100	2.500	0	93.0	67	136	6.32	30	
Surr: Tetrachlorethene	0.381		0.4000		95.3	74	138	0	0	

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

CLIENT: GHD
Work Order: 2409025
Project: HF Sinclair Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240905A

The QC data in batch 117069 applies to the following samples: 2409025-01A, 2409025-02A, 2409025-03A, 2409025-04A

Sample ID: **LCS-117069** Batch ID: **117069** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_240905A** Analysis Date: **9/5/2024 12:33:00 PM** Prep Date: **9/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0258	0.00100	0.0232	0	111	81	122			
Ethylbenzene	0.0252	0.00100	0.0232	0	109	80	120			
m,p-Xylene	0.0498	0.00200	0.0464	0	107	80	120			
o-Xylene	0.0242	0.00100	0.0232	0	104	80	120			
Toluene	0.0258	0.00200	0.0232	0	111	80	120			
Total Xylenes	0.0740	0.00100	0.0696	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	195		200.0		97.4	72	119			
Surr: 4-Bromofluorobenzene	196		200.0		97.8	76	119			
Surr: Dibromofluoromethane	211		200.0		105	85	115			
Surr: Toluene-d8	192		200.0		96.0	81	120			

Sample ID: **LCSD-117069** Batch ID: **117069** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCSD** Run ID: **GCMS7_240905A** Analysis Date: **9/5/2024 12:58:00 PM** Prep Date: **9/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0244	0.00100	0.0232	0	105	81	122	5.65	20	
Ethylbenzene	0.0237	0.00100	0.0232	0	102	80	120	6.22	20	
m,p-Xylene	0.0471	0.00200	0.0464	0	101	80	120	5.53	20	
o-Xylene	0.0232	0.00100	0.0232	0	99.9	80	120	4.22	20	
Toluene	0.0245	0.00200	0.0232	0	106	80	120	5.28	20	
Total Xylenes	0.0703	0.00100	0.0696	0	101	80	120	5.10	20	
Surr: 1,2-Dichloroethane-d4	205		200.0		103	72	119	0	0	
Surr: 4-Bromofluorobenzene	197		200.0		98.4	76	119	0	0	
Surr: Dibromofluoromethane	211		200.0		105	85	115	0	0	
Surr: Toluene-d8	193		200.0		96.4	81	120	0	0	

Sample ID: **MB-117069** Batch ID: **117069** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_240905A** Analysis Date: **9/5/2024 2:02:00 PM** Prep Date: **9/5/2024**

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								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	197		200.0		98.6	72	119			
Surr: 4-Bromofluorobenzene	199		200.0		99.4	76	119			
Surr: Dibromofluoromethane	209		200.0		104	85	115			
Surr: Toluene-d8	196		200.0		98.0	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

October 24, 2024

Erin Sullivan
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (303) 325-4425
FAX:

Order No.: 2410156

RE: HF SINCLAIR HOBBS TANK 5201

Dear Erin Sullivan:

DHL Analytical, Inc. received 2 sample(s) on 10/17/2024 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,

Joel Grice
Executive VP of Environmental

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

CLIENT: HF SINCLAIR
ADDRESS:
PHONE: 303·324·4425 EMAIL:
DATA REPORTED TO: ERIN.SULLIVAN@GHD.COM
ADDITIONAL REPORT COPIES TO:

DATE: 10·16·24
PO#:

LAB USE ONLY
DHL WORKORDER #: 2410156

PROJECT LOCATION OR NAME: HF SINCLAIR HOBBS TANK 5201
CLIENT PROJECT #
COLLECTOR: J. TREVINO

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOIL SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ☐	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐	Zn Acetate ☐	ICE ☐	UNPRESERVED ☐	ANALYSES: BTEX ☒ MTBE ☒ [METHOD 8260]	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO 8015 ☒ DRO 8015 ☒ ORO	VOC 8260 ☐ VOC 624.1 ☐	SVOC 8270 ☐ SVOC 625.1 ☐	PAH 8270 ☐ HOLD PAH ☐	PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐	PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐	HERB 8321 ☐ T PHOS ☐ AMMONIA ☐	METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐	RCRA 8 ☐ TX11 ☐	pH☐ HEX CHROM☐ ALKALINITY☐ COD☐	ANIONS 300 ☐ 9056 ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ IGN ☐ DGAS ☐ OIL&GREASE ☐	TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐	CAM 17 METALS	SOLID 6010			FIELD NOTES
WC·1	01	10·16·24	12:10	SO	[redacted]									X		X														X				
TEMP BLANK	—	↓				1																														
TRIP BLANK	02	↓				4									⊗																					
															MBTEX only																					
															Per Erin S.																					
															⊗ 10/17/24																					

Relinquished By: (Sign) Jeanne Trev — DATE/TIME 10·16·24 15:30 — Received by: Fedex
Relinquished By: (Sign) Fedex — DATE/TIME 10/17/24 0907 — Received by: [signature]
Relinquished By: (Sign) — DATE/TIME — Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ☐ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 0.4°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☑ INTACT ☐ NOT USED
CARRIER: ☐ LSO ☑ FEDEX ☐ UPS ☐ COURIER ☐ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

ORIGIN ID:HOBA (432) 813-3053
GHD
GHD
14998 W 6TH AVE STE 800

GOLDEN, CO 80401
UNITED STATES US

SHIP DATE: 16OCT24
ACTWGT: 15.35 LB
CAD: 6994246/SSFE2541
DIMS: 14x11x11 IN

BILL THIRD PARTY

1 OF 1

Part # 156297-489 RRD 4/25

TO DHL ANALYTICAL

2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222 REF:

INV:
PO: DEPT:

FedEx Express

THU - 17 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 0201 2807 2779 2535

AHS
78664
TX-US AUS

A8 BSMA

FOR UPS SHIPPING ONLY

Door- 0004

TX 797 9-01
TX 79703

1Z970R400130932389

7738507 Oct 7 20:40:57 2024 HIPPS 24.3.1 US

7864 T

DHL ANALYTICAL

CUSTODY SEAL

DATE 10.16.24

SIGNATURE

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: GHD Date Received: 10/17/2024

Work Order Number: 2410156 Received by: KAO

Checklist completed by: _____ 10/17/2024 Reviewed by: SH 10/17/2024

Signature | Date | Initials | Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	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 ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 0.4

Seal Intact Y

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

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

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Page 1 of 1

DHL Analytical, Inc. **Date:** *24-Oct-24*

CLIENT: GHD
Project: HF SINCLAIR HOBBS TANK 5201
Lab Order: 2410156

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.

For Volatiles analysis of the aqueous matrix (batch 117619) only a Trip Blank was analyzed. The QC includes the method blank and LCS.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Volatiles analysis by method SW8260D (soil batch 117624) the matrix spike and matrix spike duplicate recoveries were out of control limits for up to six compounds. 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 these compounds. No further corrective actions were taken.

For Volatiles analysis by method SW8260D the surrogate recoveries for sample WC-1 and the matrix spike (soil batch 117624) were out of control limits for Dibromofluoromethane. These are flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *24-Oct-24*

CLIENT: GHD
Project: HF SINCLAIR HOBBS TANK 5201
Lab Order: 2410156

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2410156-01	WC-1		10/16/24 12:10 PM	10/17/2024
2410156-02	TRIP BLANK		10/16/24	10/17/2024

DHL Analytical, Inc.

Date: *24-Oct-24*

CLIENT: GHD
Client Sample ID: WC-1
Project: HF SINCLAIR HOBBS TANK 5201
Lab ID: 2410156-01
Project No:
Collection Date: 10/16/24 12:10 PM
Lab Order: 2410156
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	<3.92	3.92	13.1		mg/Kg-dry	1	10/24/24 12:02 PM
Surr: Isopropylbenzene	70.6	0	47-142		%REC	1	10/24/24 12:02 PM
Surr: Octacosane	89.2	0	25-162		%REC	1	10/24/24 12:02 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **KES**
Gasoline Range Organics	0.362	0.0823	0.165		mg/Kg-dry	1	10/22/24 02:55 PM
Surr: Tetrachlorethene	97.8	0	70-134		%REC	1	10/22/24 02:55 PM
TRACE METALS: ICP-MS - SOLID		**SW6020B**					Analyst: **CMC**
Antimony	<0.636	0.636	1.27		mg/Kg-dry	5	10/23/24 10:57 AM
Arsenic	1.01	0.636	1.27	J	mg/Kg-dry	5	10/23/24 10:57 AM
Barium	3.81	0.636	2.54		mg/Kg-dry	5	10/23/24 10:57 AM
Beryllium	<0.127	0.127	0.381		mg/Kg-dry	5	10/23/24 10:57 AM
Cadmium	0.142	0.127	0.381	J	mg/Kg-dry	5	10/23/24 10:57 AM
Chromium	8.82	0.636	2.54		mg/Kg-dry	5	10/23/24 10:57 AM
Cobalt	<0.636	0.636	2.54		mg/Kg-dry	5	10/23/24 10:57 AM
Copper	1.42	0.636	2.54	J	mg/Kg-dry	5	10/23/24 10:57 AM
Lead	0.310	0.127	0.381	J	mg/Kg-dry	5	10/23/24 10:57 AM
Molybdenum	<0.636	0.636	2.54		mg/Kg-dry	5	10/23/24 10:57 AM
Nickel	12.4	0.636	2.54		mg/Kg-dry	5	10/23/24 10:57 AM
Selenium	<0.191	0.191	0.636		mg/Kg-dry	5	10/23/24 10:57 AM
Silver	<0.127	0.127	0.254		mg/Kg-dry	5	10/23/24 10:57 AM
Thallium	<0.636	0.636	1.27		mg/Kg-dry	5	10/23/24 10:57 AM
Vanadium	3.93	1.27	3.18		mg/Kg-dry	5	10/23/24 10:57 AM
Zinc	4.54	1.27	3.18		mg/Kg-dry	5	10/23/24 10:57 AM
MERCURY TOTAL: SOIL/SOLID		**SW7471B**					Analyst: **JS**
Mercury	<0.0185	0.0185	0.0463		mg/Kg-dry	1	10/24/24 12:56 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **JL**
Benzene	<0.00140	0.00140	0.00699		mg/Kg-dry	1	10/18/24 03:51 AM
Ethylbenzene	<0.00140	0.00140	0.00699		mg/Kg-dry	1	10/18/24 03:51 AM
m,p-Xylene	<0.00140	0.00140	0.00699		mg/Kg-dry	1	10/18/24 03:51 AM
Methyl tert-butyl ether	<0.00140	0.00140	0.00699		mg/Kg-dry	1	10/18/24 03:51 AM
o-Xylene	<0.00140	0.00140	0.00699		mg/Kg-dry	1	10/18/24 03:51 AM
Toluene	<0.00140	0.00140	0.00699		mg/Kg-dry	1	10/18/24 03:51 AM
Xylenes, Total	<0.00140	0.00140	0.00699		mg/Kg-dry	1	10/18/24 03:51 AM
Surr: 1,2-Dichloroethane-d4	103	0	52-149		%REC	1	10/18/24 03:51 AM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	10/18/24 03:51 AM
Surr: Dibromofluoromethane	3.32	0	65-135	S	%REC	1	10/18/24 03:51 AM

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: *24-Oct-24*

CLIENT:	GHD	**Client Sample ID:**	WC-1
Project:	HF SINCLAIR HOBBS TANK 5201	**Lab ID:**	2410156-01
Project No:		**Collection Date:**	10/16/24 12:10 PM
Lab Order:	2410156	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **JL**
Surr: Toluene-d8	109	0	84-116		%REC	1	10/18/24 03:51 AM
PERCENT MOISTURE		**D2216**					Analyst: **KER**
Percent Moisture	25.8	0	0		WT%	1	10/21/24 09:20 AM

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: *24-Oct-24*

CLIENT:	GHD	**Client Sample ID:**	TRIP BLANK
Project:	HF SINCLAIR HOBBS TANK 5201	**Lab ID:**	2410156-02
Project No:		**Collection Date:**	10/16/24
Lab Order:	2410156	**Matrix:**	TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	10/17/24 12:06 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/17/24 12:06 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	10/17/24 12:06 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	10/17/24 12:06 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	10/17/24 12:06 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/17/24 12:06 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/17/24 12:06 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119		%REC	1	10/17/24 12:06 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	1	10/17/24 12:06 PM
Surr: Dibromofluoromethane	107	0	85-115		%REC	1	10/17/24 12:06 PM
Surr: Toluene-d8	97.9	0	81-120		%REC	1	10/17/24 12:06 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:** *24-Oct-24*

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_241024A

The QC data in batch 117670 applies to the following samples: 2410156-01C

Sample ID: **MB-117670** Batch ID: **117670** TestNo: **M8015D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC15_241024A** Analysis Date: **10/24/2024 11:45:05 A** Prep Date: **10/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<3.00	10.0								
Surr: Isopropylbenzene	5.53		7.500		73.8	47	142			
Surr: Octacosane	5.84		7.500		77.9	25	162			

Sample ID: **LCS-117670** Batch ID: **117670** TestNo: **M8015D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC15_241024A** Analysis Date: **10/24/2024 11:53:56 A** Prep Date: **10/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	92.2	10.0	125.0	0	73.8	50	114			
Surr: Isopropylbenzene	5.81		7.500		77.5	47	142			
Surr: Octacosane	5.93		7.500		79.0	25	162			

Sample ID: **2410156-01CMS** Batch ID: **117670** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC15_241024A** Analysis Date: **10/24/2024 12:11:39 P** Prep Date: **10/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	114	12.8	160.0	0	71.1	50	114			
Surr: Isopropylbenzene	7.42		9.597		77.3	47	142			
Surr: Octacosane	9.01		9.597		93.9	25	162			

Sample ID: **2410156-01CMSD** Batch ID: **117670** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC15_241024A** Analysis Date: **10/24/2024 12:20:31 P** Prep Date: **10/23/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	115	12.9	161.3	0	71.2	50	114	1.01	30	
Surr: Isopropylbenzene	7.42		9.680		76.7	47	142	0	0	
Surr: Octacosane	9.09		9.680		93.9	25	162	0	0	

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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_241022A

The QC data in batch 117662 applies to the following samples: 2410156-01B

Sample ID: **LCS-117662**	Batch ID: **117662**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC4_241022A**	Analysis Date: **10/22/2024 1:11:58 PM**	Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.26	0.200	2.500	0	90.2	68	126			
Surr: Tetrachlorethene	0.365		0.4000		91.3	70	134			

Sample ID: **LCSD-117662**	Batch ID: **117662**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **LCSD**	Run ID: **GC4_241022A**	Analysis Date: **10/22/2024 1:36:50 PM**	Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.10	0.200	2.500	0	84.0	68	126	7.12	30	
Surr: Tetrachlorethene	0.338		0.4000		84.6	70	134	0	0	

Sample ID: **MB-117662**	Batch ID: **117662**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC4_241022A**	Analysis Date: **10/22/2024 2:26:53 PM**	Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.383		0.4000		95.7	70	134			

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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_241024A

The QC data in batch 117685 applies to the following samples: 2410156-01D

Sample ID: **MB-117685**	Batch ID: **117685**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **CETAC2_HG_241024A**	Analysis Date: **10/24/2024 12:49:18 P**	Prep Date: **10/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0160	0.0400								

Sample ID: **LCS-117685**	Batch ID: **117685**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **CETAC2_HG_241024A**	Analysis Date: **10/24/2024 12:51:34 P**	Prep Date: **10/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.204	0.0400	0.2000	0	102	85	115			

Sample ID: **LCSD-117685**	Batch ID: **117685**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **LCSD**	Run ID: **CETAC2_HG_241024A**	Analysis Date: **10/24/2024 12:53:50 P**	Prep Date: **10/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.201	0.0400	0.2000	0	101	85	115	1.48	25	

Sample ID: **2410156-01DMS**	Batch ID: **117685**	TestNo: **SW7471B**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **CETAC2_HG_241024A**	Analysis Date: **10/24/2024 12:58:23 P**	Prep Date: **10/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.221	0.0457	0.2286	0	96.5	80	120			

Sample ID: **2410156-01DMSD**	Batch ID: **117685**	TestNo: **SW7471B**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **CETAC2_HG_241024A**	Analysis Date: **10/24/2024 1:00:38 PM**	Prep Date: **10/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.222	0.0466	0.2332	0	95.0	80	120	0.404	25	

Sample ID: **2410156-01DPDS**	Batch ID: **117685**	TestNo: **SW7471B**	Units: **mg/Kg-dry**
SampType: **PDS**	Run ID: **CETAC2_HG_241024A**	Analysis Date: **10/24/2024 1:02:53 PM**	Prep Date: **10/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.280	0.0463	0.2896	0	96.8	85	115			

Sample ID: **2410156-01DSD**	Batch ID: **117685**	TestNo: **SW7471B**	Units: **mg/Kg-dry**
SampType: **SD**	Run ID: **CETAC2_HG_241024A**	Analysis Date: **10/24/2024 1:05:09 PM**	Prep Date: **10/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0927	0.232	0	0				0	10	

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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_241023A

The QC data in batch 117655 applies to the following samples: 2410156-01D

Sample ID: **MB-117655** Batch ID: **117655** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS5_241023A** Analysis Date: **10/23/2024 10:43:00 A** Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.500	1.00								
Arsenic	<0.500	1.00								
Barium	<0.500	2.00								
Beryllium	<0.100	0.300								
Cadmium	<0.100	0.300								
Chromium	<0.500	2.00								
Cobalt	<0.500	2.00								
Copper	<0.500	2.00								
Lead	<0.100	0.300								
Molybdenum	<0.500	2.00								
Nickel	<0.500	2.00								
Selenium	<0.150	0.500								
Silver	<0.100	0.200								
Thallium	<0.500	1.00								
Vanadium	<1.00	2.50								
Zinc	<1.00	2.50								

Sample ID: **LCS-117655** Batch ID: **117655** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS5_241023A** Analysis Date: **10/23/2024 10:46:00 A** Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	50.8	1.00	50.00	0	102	80	120			
Arsenic	50.5	1.00	50.00	0	101	80	120			
Barium	51.2	2.00	50.00	0	102	80	120			
Beryllium	49.9	0.300	50.00	0	99.8	80	120			
Cadmium	50.5	0.300	50.00	0	101	80	120			
Chromium	50.8	2.00	50.00	0	102	80	120			
Cobalt	51.6	2.00	50.00	0	103	80	120			
Copper	51.6	2.00	50.00	0	103	80	120			
Lead	50.4	0.300	50.00	0	101	80	120			
Molybdenum	49.1	2.00	50.00	0	98.2	80	120			
Nickel	50.7	2.00	50.00	0	101	80	120			
Selenium	48.2	0.500	50.00	0	96.4	80	120			
Silver	50.3	0.200	50.00	0	101	80	120			
Thallium	52.2	1.00	50.00	0	104	80	120			
Vanadium	49.4	2.50	50.00	0	98.8	80	120			
Zinc	50.8	2.50	50.00	0	102	80	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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_241023A

Sample ID: **LCSD-117655** Batch ID: **117655** TestNo: **SW6020B** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS5_241023A** Analysis Date: **10/23/2024 10:48:00 A** Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	51.0	1.00	50.00	0	102	80	120	0.493	25	
Arsenic	50.8	1.00	50.00	0	102	80	120	0.662	25	
Barium	51.0	2.00	50.00	0	102	80	120	0.253	25	
Beryllium	50.0	0.300	50.00	0	99.9	80	120	0.112	25	
Cadmium	50.9	0.300	50.00	0	102	80	120	0.765	25	
Chromium	51.5	2.00	50.00	0	103	80	120	1.35	25	
Cobalt	51.9	2.00	50.00	0	104	80	120	0.517	25	
Copper	52.0	2.00	50.00	0	104	80	120	0.749	25	
Lead	50.7	0.300	50.00	0	101	80	120	0.588	25	
Molybdenum	49.5	2.00	50.00	0	99.0	80	120	0.818	25	
Nickel	50.9	2.00	50.00	0	102	80	120	0.556	25	
Selenium	48.3	0.500	50.00	0	96.7	80	120	0.344	25	
Silver	50.9	0.200	50.00	0	102	80	120	1.16	25	
Thallium	52.4	1.00	50.00	0	105	80	120	0.499	25	
Vanadium	50.1	2.50	50.00	0	100	80	120	1.38	25	
Zinc	51.4	2.50	50.00	0	103	80	120	1.18	25	

Sample ID: **2410156-01D SD** Batch ID: **117655** TestNo: **SW6020B** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS5_241023A** Analysis Date: **10/23/2024 11:01:00 A** Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<3.18	6.36	0	0				0	20	
Arsenic	<3.18	6.36	0	1.012				0	20	
Barium	3.72	12.7	0	3.812				2.50	20	
Beryllium	<0.636	1.91	0	0				0	20	
Cadmium	<0.636	1.91	0	0.1421				0	20	
Chromium	9.02	12.7	0	8.821				2.23	20	
Cobalt	<3.18	12.7	0	0				0	20	
Copper	<3.18	12.7	0	1.416				0	20	
Lead	<0.636	1.91	0	0.3095				0	20	
Molybdenum	<3.18	12.7	0	0				0	20	
Nickel	12.8	12.7	0	12.44				2.78	20	
Selenium	<0.953	3.18	0	0				0	20	
Silver	<0.636	1.27	0	0				0	20	
Thallium	<3.18	6.36	0	0				0	20	
Vanadium	<6.36	15.9	0	3.932				0	20	
Zinc	<6.36	15.9	0	4.541				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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_241023A

Sample ID: **2410156-01D PDS** Batch ID: **117655** TestNo: **SW6020B** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS5_241023A** Analysis Date: **10/23/2024 11:15:00 A** Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	59.5	1.27	63.56	0	93.6	75	125			
Arsenic	63.4	1.27	63.56	1.012	98.1	75	125			
Barium	67.3	2.54	63.56	3.812	99.9	75	125			
Beryllium	62.4	0.381	63.56	0	98.2	75	125			
Cadmium	60.8	0.381	63.56	0.1421	95.5	75	125			
Chromium	72.2	2.54	63.56	8.821	99.7	75	125			
Cobalt	64.2	2.54	63.56	0	101	75	125			
Copper	62.3	2.54	63.56	1.416	95.7	75	125			
Lead	63.8	0.381	63.56	0.3095	99.9	75	125			
Molybdenum	61.6	2.54	63.56	0	96.9	75	125			
Nickel	73.8	2.54	63.56	12.44	96.6	75	125			
Selenium	54.4	0.636	63.56	0	85.6	75	125			
Silver	61.3	0.254	63.56	0	96.4	75	125			
Thallium	66.6	1.27	63.56	0	105	75	125			
Vanadium	66.3	3.18	63.56	3.932	98.1	75	125			
Zinc	64.7	3.18	63.56	4.541	94.6	75	125			

Sample ID: **2410156-01D MS** Batch ID: **117655** TestNo: **SW6020B** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS5_241023A** Analysis Date: **10/23/2024 11:17:00 A** Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	64.2	1.28	64.16	0	100	75	125			
Arsenic	64.2	1.28	64.16	1.012	98.5	75	125			
Barium	67.6	2.57	64.16	3.812	99.4	75	125			
Beryllium	62.3	0.385	64.16	0	97.1	75	125			
Cadmium	61.0	0.385	64.16	0.1421	94.8	75	125			
Chromium	71.3	2.57	64.16	8.821	97.3	75	125			
Cobalt	63.4	2.57	64.16	0	98.9	75	125			
Copper	63.0	2.57	64.16	1.416	96.0	75	125			
Lead	64.4	0.385	64.16	0.3095	99.9	75	125			
Molybdenum	63.6	2.57	64.16	0	99.2	75	125			
Nickel	63.4	2.57	64.16	12.44	79.4	75	125			
Selenium	55.6	0.642	64.16	0	86.6	75	125			
Silver	60.3	0.257	64.16	0	94.1	75	125			
Thallium	68.1	1.28	64.16	0	106	75	125			
Vanadium	66.7	3.21	64.16	3.932	97.9	75	125			
Zinc	64.6	3.21	64.16	4.541	93.7	75	125			

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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_241023A

Sample ID: **2410156-01D MSD** Batch ID: **117655** TestNo: **SW6020B** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS5_241023A** Analysis Date: **10/23/2024 11:20:00 A** Prep Date: **10/22/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	63.9	1.28	64.16	0	99.6	75	125	0.548	25	
Arsenic	64.7	1.28	64.16	1.012	99.2	75	125	0.695	25	
Barium	67.8	2.57	64.16	3.812	99.8	75	125	0.396	25	
Beryllium	62.1	0.385	64.16	0	96.8	75	125	0.235	25	
Cadmium	60.9	0.385	64.16	0.1421	94.7	75	125	0.105	25	
Chromium	71.7	2.57	64.16	8.821	98.0	75	125	0.581	25	
Cobalt	63.7	2.57	64.16	0	99.3	75	125	0.402	25	
Copper	63.4	2.57	64.16	1.416	96.7	75	125	0.706	25	
Lead	64.3	0.385	64.16	0.3095	99.7	75	125	0.236	25	
Molybdenum	63.2	2.57	64.16	0	98.4	75	125	0.757	25	
Nickel	64.2	2.57	64.16	12.44	80.6	75	125	1.17	25	
Selenium	55.4	0.642	64.16	0	86.3	75	125	0.291	25	
Silver	60.0	0.257	64.16	0	93.6	75	125	0.513	25	
Thallium	67.3	1.28	64.16	0	105	75	125	1.07	25	
Vanadium	66.8	3.21	64.16	3.932	98.1	75	125	0.195	25	
Zinc	64.7	3.21	64.16	4.541	93.7	75	125	0.019	25	

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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_241017B

The QC data in batch 117624 applies to the following samples: 2410156-01A

Sample ID: **LCS-117624** Batch ID: **117624** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_241017B** Analysis Date: **10/17/2024 1:01:00 PM** Prep Date: **10/17/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0240	0.00500	0.0232	0	103	73	126			
Ethylbenzene	0.0250	0.00500	0.0232	0	108	74	127			
m,p-Xylene	0.0488	0.00500	0.0464	0	105	79	126			
Methyl tert-butyl ether	0.0230	0.00500	0.0232	0	99.0	50	135			
o-Xylene	0.0251	0.00500	0.0232	0	108	77	125			
Toluene	0.0240	0.00500	0.0232	0	104	71	127			
Xylenes, Total	0.0738	0.00500	0.0696	0	106	75	125			
Surr: 1,2-Dichloroethane-d4	52.5		50.00		105	52	149			
Surr: 4-Bromofluorobenzene	51.3		50.00		103	84	118			
Surr: Dibromofluoromethane	50.1		50.00		100	65	135			
Surr: Toluene-d8	50.4		50.00		101	84	116			

Sample ID: **2410142-03AMS** Batch ID: **117624** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_241017B** Analysis Date: **10/17/2024 1:29:00 PM** Prep Date: **10/17/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.19	0.00434	0.0201	1.16	154	73	126			S
Ethylbenzene	0.350	0.00434	0.0201	0.460	-546	74	127			S
m,p-Xylene	0.226	0.00434	0.0403	0.269	-107	79	126			S
Methyl tert-butyl ether	0.0167	0.00434	0.0201	0	82.9	50	135			
o-Xylene	0.0431	0.00434	0.0201	0.0346	42.5	77	125			S
Toluene	0.212	0.00434	0.0201	0.197	73.9	71	127			
Xylenes, Total	0.269	0.00434	0.0604	0.303	-57.0	75	125			S
Surr: 1,2-Dichloroethane-d4	45.0		43.40		104	52	149			
Surr: 4-Bromofluorobenzene	49.3		43.40		114	84	118			
Surr: Dibromofluoromethane	61.3		43.40		141	65	135			S
Surr: Toluene-d8	45.5		43.40		105	84	116			

Sample ID: **2410142-03AMSD** Batch ID: **117624** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_241017B** Analysis Date: **10/17/2024 1:58:00 PM** Prep Date: **10/17/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.908	0.00443	0.0205	1.16	-1240	73	126	27.2	30	S
Ethylbenzene	0.284	0.00443	0.0205	0.460	-858	74	127	20.9	30	S
m,p-Xylene	0.211	0.00443	0.0411	0.269	-141	79	126	6.79	30	S
Methyl tert-butyl ether	0.0145	0.00443	0.0205	0	70.7	50	135	13.9	30	
o-Xylene	0.0429	0.00443	0.0205	0.0346	40.6	77	125	0.497	30	S
Toluene	0.192	0.00443	0.0205	0.197	-23.3	71	127	9.73	30	S
Xylenes, Total	0.254	0.00443	0.0616	0.303	-80.3	75	125	5.76	30	S
Surr: 1,2-Dichloroethane-d4	45.2		44.25		102	52	149	0	0	

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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_241017B

Sample ID: **2410142-03AMSD**	Batch ID: **117624**	TestNo: **SW8260D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS2_241017B**	Analysis Date: **10/17/2024 1:58:00 PM**	Prep Date: **10/17/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	50.0		44.25		113	84	118	0	0	
Surr: Dibromofluoromethane	56.7		44.25		128	65	135	0	0	
Surr: Toluene-d8	48.7		44.25		110	84	116	0	0	

Sample ID: **MB-117624**	Batch ID: **117624**	TestNo: **SW8260D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS2_241017B**	Analysis Date: **10/17/2024 8:21:00 PM**	Prep Date: **10/17/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.00100	0.00500								
Ethylbenzene	<0.00100	0.00500								
m,p-Xylene	<0.00100	0.00500								
Methyl tert-butyl ether	<0.00100	0.00500								
o-Xylene	<0.00100	0.00500								
Toluene	<0.00100	0.00500								
Xylenes, Total	<0.00100	0.00500								
Surr: 1,2-Dichloroethane-d4	50.6		50.00		101	52	149			
Surr: 4-Bromofluorobenzene	54.2		50.00		108	84	118			
Surr: Dibromofluoromethane	48.7		50.00		97.4	65	135			
Surr: Toluene-d8	54.4		50.00		109	84	116			

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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_241017A

The QC data in batch 117619 applies to the following samples: 2410156-02A

Sample ID: **LCS-117619** Batch ID: **117619** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_241017A** Analysis Date: **10/17/2024 10:37:00 A** Prep Date: **10/17/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0253	0.00100	0.0232	0	109	81	122			
Ethylbenzene	0.0253	0.00100	0.0232	0	109	80	120			
m,p-Xylene	0.0508	0.00200	0.0464	0	110	80	120			
Methyl tert-butyl ether	0.0251	0.00100	0.0232	0	108	68	123			
o-Xylene	0.0249	0.00100	0.0232	0	107	80	120			
Toluene	0.0254	0.00200	0.0232	0	110	80	120			
Total Xylenes	0.0757	0.00100	0.0696	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	198		200.0		99.1	72	119			
Surr: 4-Bromofluorobenzene	198		200.0		99.1	76	119			
Surr: Dibromofluoromethane	211		200.0		106	85	115			
Surr: Toluene-d8	197		200.0		98.5	81	120			

Sample ID: **MB-117619** Batch ID: **117619** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_241017A** Analysis Date: **10/17/2024 11:42:00 A** Prep Date: **10/17/2024**

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								
Methyl tert-butyl ether	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
Toluene	<0.000600	0.00200								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	201		200.0		101	72	119			
Surr: 4-Bromofluorobenzene	205		200.0		103	76	119			
Surr: Dibromofluoromethane	213		200.0		107	85	115			
Surr: Toluene-d8	197		200.0		98.6	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

CLIENT: GHD
Work Order: 2410156
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_241018A**

The QC data in batch 117640 applies to the following samples: 2410156-01D

Sample ID: **2410169-08A-DUP** Batch ID: **117640** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_241018A** Analysis Date: **10/21/2024 9:20:00 AM** Prep Date: **10/18/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	8.19	0	0	8.765				6.80	30	

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

December 16, 2024

Erin Sullivan
GHD
14998 W 6th Ave #800
Golden, CO 80401
TEL: (303) 325-4425
FAX:

Order No.: 2412011

RE: HF SINCLAIR HOBBS TANK 5201

Dear Erin Sullivan:

DHL Analytical, Inc. received 3 samples on 12/04/2024 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,

Karyn Lane

Karyn Lane
Laboratory Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: www.dhlanalytical.com
Email: login@dhlanalytical.com

CHAIN-OF-CUSTODY

CLIENT: GHD-HF SINCLAIR
ADDRESS: 2135 South Loop 250 West Midland, Texas 79703
PHONE: (303) 325-4425 EMAIL: erin.sullivan@ghd.com
DATA REPORTED TO: Erin Sullivan
ADD'L REPORT COPIES TO: B. Stephenson, J. Cloud

DATE: 12·3·24
PO#: 12630714
LAB USE ONLY
DHL WORKORDER # 2412011
PROJECT LOCATION OR NAME: HF Sinclair Tank
CLIENT PROJECT #:
COLLECTOR:

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

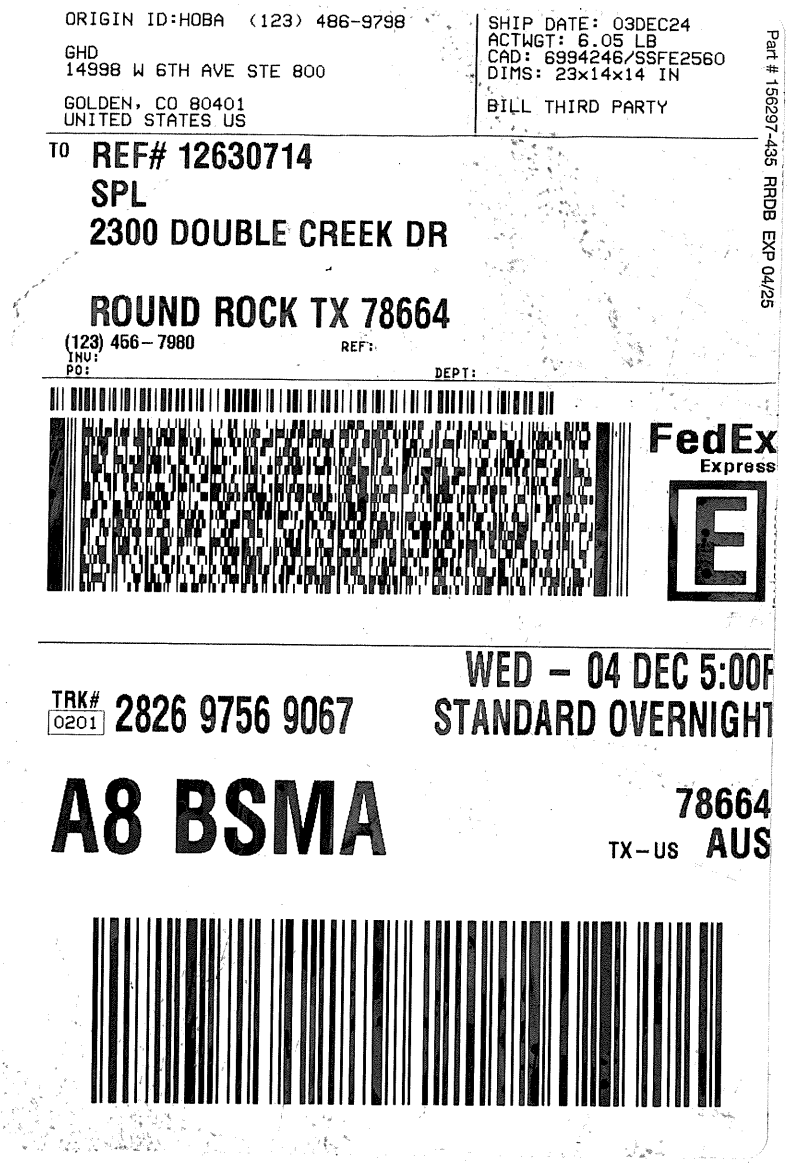
Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	# of Containers	250GAMU	DRO	VOAU	GRO WATER	VOC 8260_W	FIELD NOTES
		BOLD & ITALIC HEADERS INDICATE BOTTLE TYPE AND PRESERVATIVE									
HTRW·1	01	12·3·24	13:45	AQUEOUS	8	-->	2	-->	3	3	
HTRW·1D	02	12·3·24	13:45	AQUEOUS	8	-->	2	-->	3	3	
				AQUEOUS	8	-->	2	-->	3	3	
				AQUEOUS	8	-->	2	-->	3	3	
				AQUEOUS	8	-->	2	-->	3	3	
				AQUEOUS	8	-->	2	-->	3	3	
TRIPBIANK	03				4				2	2	

Relinquished By: (Sign) Joanne Trew DATE/TIME 12·3·24 CST 15:55 Received By: Fedex
Relinquished By: (Sign) Fedex DATE/TIME 12/4/24 0900 Received By:
Relinquished By: (Sign) DATE/TIME Received By:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY ☐ RUSH-2 DAY ☐
RUSH-3 DAY ☐
NORMAL ☐ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY
RECEIVING TEMP (°C) 2.9°C THERMO #: 78
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES/NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☑ INTACT ☐ NOT USED
CARRIER:
☐ LSO ☑ FEDEX ☐ UPS ☐ COURIER ☐ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each



ORIGIN ID:HOBA (123) 486-9798

GHD
14998 W 6TH AVE STE 800

GOLDEN, CO 80401
UNITED STATES US

SHIP DATE: 03DEC24
ACTWGT: 6.05 LB
CAD: 6994246/SSFE2560
DIMS: 23x14x14 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 04/25

TO REF# 12630714
SPL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(123) 456-7980
INV:
PO: REF:
DEPT:

FedEx Express

WED - 04 DEC 5:00P
STANDARD OVERNIGHT

TRK# 0201 2826 9756 9067

A8 BSMA

78664
TX-US AUS

DHL ANALYTICAL

CUSTODY SEAL

DATE 12.3.24

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: GHD Date Received: 12/4/2024

Work Order Number: 2412011 Received by: KAO

Checklist completed by: _____ 12/4/2024 Reviewed by: _____ 12/4/2024
Signature | Date | Initials | Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	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 ☐		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐	NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑	LOT #
	Adjusted?		Checked by	
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑	LOT #
	Adjusted?		Checked by	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

Cooler # 1

Temp °C 2.9

Seal Intact Y

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

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

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Page 1 of 1

DHL Analytical, Inc. **Date:** *16-Dec-24*

CLIENT: GHD
Project: HF SINCLAIR HOBBS TANK 5201
Lab Order: 2412011

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: *16-Dec-24*

CLIENT: GHD
Project: HF SINCLAIR HOBBS TANK 5201
Lab Order: 2412011

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2412011-01	HTRW-1		12/03/24 01:45 PM	12/04/2024
2412011-02	HTRW-1D		12/03/24 01:45 PM	12/04/2024
2412011-03	Trip Blank		12/03/24	12/04/2024

DHL Analytical, Inc.

Date: *16-Dec-24*

CLIENT:	GHD	**Client Sample ID:**	HTRW-1
Project:	HF SINCLAIR HOBBS TANK 5201	**Lab ID:**	2412011-01
Project No:	GHD SSOW 12630714-2024-04	**Collection Date:**	12/03/24 01:45 PM
Lab Order:	2412011	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	<0.150	0.150	0.187		mg/L	1	12/10/24 10:33 AM
Surr: Isopropylbenzene	56.1	0	25-124		%REC	1	12/10/24 10:33 AM
Surr: Octacosane	69.5	0	51-124		%REC	1	12/10/24 10:33 AM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	0.0651	0.0600	0.100	J	mg/L	1	12/10/24 01:30 PM
Surr: Tetrachlorethene	96.1	0	74-138		%REC	1	12/10/24 01:30 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	0.00438	0.000300	0.00100		mg/L	1	12/04/24 01:34 PM
Ethylbenzene	0.000352	0.000300	0.00100	J	mg/L	1	12/04/24 01:34 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	12/04/24 01:34 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:34 PM
Toluene	0.00173	0.000600	0.00200	J	mg/L	1	12/04/24 01:34 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:34 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	12/04/24 01:34 PM
Surr: 4-Bromofluorobenzene	112	0	76-119		%REC	1	12/04/24 01:34 PM
Surr: Dibromofluoromethane	100	0	85-115		%REC	1	12/04/24 01:34 PM
Surr: Toluene-d8	108	0	81-120		%REC	1	12/04/24 01:34 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: *16-Dec-24*

CLIENT:	GHD	**Client Sample ID:**	HTRW-1D
Project:	HF SINCLAIR HOBBS TANK 5201	**Lab ID:**	2412011-02
Project No:	GHD SSOW 12630714-2024-04	**Collection Date:**	12/03/24 01:45 PM
Lab Order:	2412011	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **RA**
TPH-DRO C10-C28	<0.152	0.152	0.190		mg/L	1	12/10/24 10:42 AM
Surr: Isopropylbenzene	62.4	0	25-124		%REC	1	12/10/24 10:42 AM
Surr: Octacosane	71.2	0	51-124		%REC	1	12/10/24 10:42 AM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	12/10/24 01:55 PM
Surr: Tetrachlorethene	99.9	0	74-138		%REC	1	12/10/24 01:55 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	0.00298	0.000300	0.00100		mg/L	1	12/04/24 01:59 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:59 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	12/04/24 01:59 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:59 PM
Toluene	0.00124	0.000600	0.00200	J	mg/L	1	12/04/24 01:59 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:59 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	12/04/24 01:59 PM
Surr: 4-Bromofluorobenzene	111	0	76-119		%REC	1	12/04/24 01:59 PM
Surr: Dibromofluoromethane	100	0	85-115		%REC	1	12/04/24 01:59 PM
Surr: Toluene-d8	109	0	81-120		%REC	1	12/04/24 01:59 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: *16-Dec-24*

CLIENT:	GHD	**Client Sample ID:**	Trip Blank
Project:	HF SINCLAIR HOBBS TANK 5201	**Lab ID:**	2412011-03
Project No:	GHD SSOW 12630714-2024-04	**Collection Date:**	12/03/24
Lab Order:	2412011	**Matrix:**	TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **KES**
Gasoline Range Organics	<0.0600	0.0600	0.100		mg/L	1	12/10/24 01:06 PM
Surr: Tetrachlorethene	101	0	74-138		%REC	1	12/10/24 01:06 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:08 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:08 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	12/04/24 01:08 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:08 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	12/04/24 01:08 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	12/04/24 01:08 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	12/04/24 01:08 PM
Surr: 4-Bromofluorobenzene	114	0	76-119		%REC	1	12/04/24 01:08 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	12/04/24 01:08 PM
Surr: Toluene-d8	108	0	81-120		%REC	1	12/04/24 01:08 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:** *16-Dec-24*

CLIENT: GHD
Work Order: 2412011
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_241210A

The QC data in batch 118212 applies to the following samples: 2412011-01C, 2412011-02C

Sample ID: **MB-118212** Batch ID: **118212** TestNo: **M8015D** Units: **mg/L**
SampType: **MBLK** Run ID: **GC15_241210A** Analysis Date: **12/10/2024 10:07:04 A** Prep Date: **12/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0512		0.1000		51.2	25	124			
Surr: Octacosane	0.0686		0.1000		68.6	51	124			

Sample ID: **LCS-118212** Batch ID: **118212** TestNo: **M8015D** Units: **mg/L**
SampType: **LCS** Run ID: **GC15_241210A** Analysis Date: **12/10/2024 10:15:55 A** Prep Date: **12/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.779	0.100	1.250	0	62.3	50	114			
Surr: Isopropylbenzene	0.0509		0.1000		50.9	25	124			
Surr: Octacosane	0.0741		0.1000		74.1	51	124			

Sample ID: **LCSD-118212** Batch ID: **118212** TestNo: **M8015D** Units: **mg/L**
SampType: **LCSD** Run ID: **GC15_241210A** Analysis Date: **12/10/2024 10:24:47 A** Prep Date: **12/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.734	0.100	1.250	0	58.7	50	114	5.98	30	
Surr: Isopropylbenzene	0.0466		0.1000		46.6	25	124	0	0	
Surr: Octacosane	0.0687		0.1000		68.7	51	124	0	0	

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

CLIENT: GHD
Work Order: 2412011
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_241210A

The QC data in batch 118244 applies to the following samples: 2412011-01B, 2412011-02B, 2412011-03B

Sample ID: **LCS-118244**	Batch ID: **118244**	TestNo: **M8015V**	Units: **mg/L**
SampType: **LCS**	Run ID: **GC4_241210A**	Analysis Date: **12/10/2024 11:25:46 A**	Prep Date: **12/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.46	0.100	2.500	0	98.2	67	136			
Surr: Tetrachlorethene	0.381		0.4000		95.1	74	138			

Sample ID: **MB-118244**	Batch ID: **118244**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GC4_241210A**	Analysis Date: **12/10/2024 12:41:59 P**	Prep Date: **12/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.0600	0.100								
Surr: Tetrachlorethene	0.393		0.4000		98.3	74	138			

Sample ID: **2412011-01BMS**	Batch ID: **118244**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MS**	Run ID: **GC4_241210A**	Analysis Date: **12/10/2024 2:20:31 PM**	Prep Date: **12/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.29	0.100	2.500	0.06512	89.0	67	136			
Surr: Tetrachlorethene	0.378		0.4000		94.6	74	138			

Sample ID: **2412011-01BMSD**	Batch ID: **118244**	TestNo: **M8015V**	Units: **mg/L**
SampType: **MSD**	Run ID: **GC4_241210A**	Analysis Date: **12/10/2024 2:45:58 PM**	Prep Date: **12/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.42	0.100	2.500	0.06512	94.4	67	136	5.71	30	
Surr: Tetrachlorethene	0.397		0.4000		99.3	74	138	0	0	

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

CLIENT: GHD
Work Order: 2412011
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_241204A

The QC data in batch 118175 applies to the following samples: 2412011-01A, 2412011-02A, 2412011-03A

Sample ID: **LCS-118175** Batch ID: **118175** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_241204A** Analysis Date: **12/4/2024 11:16:00 AM** Prep Date: **12/4/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0261	0.00100	0.0232	0	112	81	122			
Ethylbenzene	0.0246	0.00100	0.0232	0	106	80	120			
m,p-Xylene	0.0508	0.00200	0.0464	0	110	80	120			
o-Xylene	0.0248	0.00100	0.0232	0	107	80	120			
Toluene	0.0250	0.00200	0.0232	0	108	80	120			
Total Xylenes	0.0757	0.00100	0.0696	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	211		200.0		105	72	119			
Surr: 4-Bromofluorobenzene	214		200.0		107	76	119			
Surr: Dibromofluoromethane	197		200.0		98.5	85	115			
Surr: Toluene-d8	208		200.0		104	81	120			

Sample ID: **MB-118175** Batch ID: **118175** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_241204A** Analysis Date: **12/4/2024 12:43:00 PM** Prep Date: **12/4/2024**

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								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	208		200.0		104	72	119			
Surr: 4-Bromofluorobenzene	219		200.0		110	76	119			
Surr: Dibromofluoromethane	204		200.0		102	85	115			
Surr: Toluene-d8	213		200.0		107	81	120			

Sample ID: **2412021-01AMS** Batch ID: **118175** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS5_241204A** Analysis Date: **12/4/2024 6:30:00 PM** Prep Date: **12/4/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.254	0.0100	0.232	0	110	81	122			
Ethylbenzene	0.235	0.0100	0.232	0	101	80	120			
m,p-Xylene	0.487	0.0200	0.464	0	105	80	120			
o-Xylene	0.234	0.0100	0.232	0	101	80	120			
Toluene	0.243	0.0200	0.232	0	105	80	120			
Total Xylenes	0.722	0.0100	0.696	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	2100		2000		105	72	119			
Surr: 4-Bromofluorobenzene	2060		2000		103	76	119			
Surr: Dibromofluoromethane	1960		2000		98.2	85	115			
Surr: Toluene-d8	1990		2000		99.7	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

CLIENT: GHD
Work Order: 2412011
Project: HF SINCLAIR HOBBS TANK 5201

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_241204A

Sample ID: **2412021-01AMSD** Batch ID: **118175** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS5_241204A** Analysis Date: **12/4/2024 6:55:00 PM** Prep Date: **12/4/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.250	0.0100	0.232	0	108	81	122	1.74	20	
Ethylbenzene	0.240	0.0100	0.232	0	103	80	120	2.15	20	
m,p-Xylene	0.487	0.0200	0.464	0	105	80	120	0.014	20	
o-Xylene	0.237	0.0100	0.232	0	102	80	120	1.20	20	
Toluene	0.236	0.0200	0.232	0	102	80	120	2.91	20	
Total Xylenes	0.724	0.0100	0.696	0	104	80	120	0.383	20	
Surr: 1,2-Dichloroethane-d4	2060		2000		103	72	119	0	0	
Surr: 4-Bromofluorobenzene	2100		2000		105	76	119	0	0	
Surr: Dibromofluoromethane	1950		2000		97.6	85	115	0	0	
Surr: Toluene-d8	2040		2000		102	81	120	0	0	

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

Appendix D

Remediation Records

Appendix D
Remediation Records
HF Sinclair Hobbs Tank 5201
Hobbs, Lea County, New Mexico

Date	Well ID	Time (Start)	Intial DTP	Intial DTW	Final DTP	Final DTW	Time (Stop)	Total Volume Removed (bbls)	Disposal Well Ticket Number
1/26/2024	RW-1	8:42 AM	--	55.20	--	55.41	9:13 AM	8	#169062
1/26/2024	HTRW-3	9:16 AM	--	55.99	--	52.50	9:50 AM		
1/26/2024	HTRW-2	9:55 AM	--	50.52	--	50.55	10:12 AM		
1/26/2024	HTRW-1	10:16 AM	--	51.23	--	51.38	10:38 AM		
2/7/2024	RW-1	8:58 AM	--	55.24	--	55.24	9:28 AM	8	#199357
2/7/2024	HTRW-3	9:32 AM	--	51.82	--	52.09	10:02 AM		
2/7/2024	HTRW-2	10:05 AM	--	50.54	--	50.61	10:35 AM		
2/7/2024	HTRW-1	10:40 AM	--	51.41	--	51.32	12:00 AM		
2/28/2024	RW-1	8:30 AM	--	55.31	--	55.63	9:05 AM	8	#199633
2/28/2024	HTRW-3	9:09 AM	--	52.05	--	52.06	9:39 AM		
2/28/2024	HTRW-2	9:45 AM	--	50.64	--	50.73	10:15 AM		
2/28/2024	HTRW-1	10:18 AM	--	51.46	--	51.48	10:48 AM		
3/13/2024	RW-1	8:35 AM	--	55.29	--	55.52	9:06 AM	8	#210788
3/13/2024	HTRW-3	9:09 AM	--	51.98	--	52.12	9:39 AM		
3/13/2024	HTRW-2	9:44 AM	--	50.58	--	50.75	10:14 AM		
3/13/2024	HTRW-1	10:16 AM	--	51.35	--	51.42	10:46 AM		
3/27/2024	RW-1	8:52 AM	--	55.29	--	55.34	9:27 AM	10	#210483
3/27/2024	HTRW-3	9:30 AM	--	51.91	--	52.09	10:01 AM		
3/27/2024	HTRW-2	10:05 AM	--	50.61	--	50.66	10:36 AM		
3/27/2024	HTRW-1	10:42 AM	--	51.28	--	51.45	11:12 AM		
4/10/2024	RW-1	8:52 AM	--	55.37	--	55.77	9:48 AM	13	#209203
4/10/2024	HTRW-3	1:55 AM	--	52.08	--	52.31	10:22 AM		
4/10/2024	HTRW-2	4:33 PM	--	50.69	--	50.73	10:55 AM		
4/10/2024	HTRW-1	11:16 AM	--	51.47	--	51.59	11:30 AM		
4/24/2024	RW-1	9:15 AM	--	55.36	--	55.79	9:45 AM	17	#209935
4/24/2024	HTRW-3	9:48 AM	--	51.92	--	52.03	10:18 AM		
4/24/2024	HTRW-2	10:22 AM	--	50.63	--	50.70	10:52 AM		
4/24/2024	HTRW-1	10:55 AM	--	51.49	--	51.49	11:25 AM		

Appendix D
Remediation Records
HF Sinclair Hobbs Tank 5201
Hobbs, Lea County, New Mexico

Date	Well ID	Time (Start)	Intial DTP	Intial DTW	Final DTP	Final DTW	Time (Stop)	Total Volume Removed (bbls)	Disposal Well Ticket Number
5/15/2024	RW-1	8:50 AM	--	56.35	--	55.89	9:20 AM	15	#208186
5/15/2024	HTRW-3	9:25 AM	--	51.94	--	52.44	9:55 AM		
5/15/2024	HTRW-2	10:03 AM	--	50.65	--	50.94	10:33 AM		
5/15/2024	HTRW-1	10:37 AM	--	51.39	--	51.71	11:07 AM		
6/5/2024	RW-1	8:40 AM	--	55.41	--	55.56	9:11 AM	15	#208845
6/5/2024	HTRW-3	9:15 AM	--	52.10	--	52.21	9:45 AM		
6/5/2024	HTRW-2	9:50 AM	--	50.68	--	51.10	9:20 AM		
6/5/2024	HTRW-1	10:25 AM	--	51.46	--	52.00	10:55 AM		
6/26/2024	RW-1	8:50 AM	--	55.41	--	55.56	9:20 AM	15	#207466
6/26/2024	HTRW-3	9:23 AM	--	52.02	--	52.05	9:55 AM		
6/26/2024	HTRW-2	10:00 AM	--	50.72	--	DRY	10:05 AM		
6/26/2024	HTRW-1	10:45 AM	--	50.72	--	51.63	11:15 AM		
6/27/2024	HTRW-4	10:15 AM	--	51.82	--	51.98	10:40 AM		
7/10/2024	RW-1	10:55 AM	--	55.39	--	55.52	11:28 AM	15	#206223
7/10/2024	HTRW-3	11:33 AM	--	52.00	--	52.12	12:04 PM		
7/10/2024	HTRW-2	2:11 PM	--	50.72	--	50.86	12:41 PM		
7/10/2024	HTRW-1	12:45 PM	--	51.38	--	51.48	1:15 PM		
7/24/2024	RW-1	11:20 AM	--	55.53	--	55.57	11:50 AM	15	#205053
7/24/2024	HTRW-3	11:55 AM	--	62.10	--	52.40	12:25 PM		
7/24/2024	HTRW-2	12:30 PM	--	50.75	--	50.03	1:00 PM		
7/24/2024	HTRW-1	1:02 PM	--	51.60	--	51.70	1:32 PM		
8/7/2024	RW-1	10:11 AM	--	55.45	--	55.69	10:41 AM	15	#213527
8/7/2024	HTRW-3	10:46 AM	--	52.20	--	52.32	11:16 AM		
8/7/2024	HTRW-2	11:31 AM	--	50.80	--	50.97	12:11 PM		
8/7/2024	HTRW-1	12:14 PM	--	51.60	--	51.57	12:44 PM		
8/21/2024	RW-1	10:30 AM	--	55.52	--	55.56	11:00 AM	25	#213050
8/21/2024	HTRW-3	11:05 AM	--	52.10	--	52.34	11:35 AM		
8/21/2024	HTRW-2	11:40 AM	--	20.80	--	50.95	12:10 PM		
8/21/2024	HTRW-1	12:15	--	51.55	--	51.75	12:45 PM		
9/4/2024	RW-1	10:47 AM	--	55.50	--	55.80	11:17 AM	8	#212010
9/4/2024	HTRW-3	11:30 AM	--	52.13	--	52.30	12:00 PM		
9/4/2024	HTRW-2	12:02 PM	--	50.80	--	51.21	12:32 PM		
9/4/2024	HTRW-1	12:35 PM	--	51.68	--	51.78	1:05 PM		

Appendix D
Remediation Records
HF Sinclair Hobbs Tank 5201
Hobbs, Lea County, New Mexico

Date	Well ID	Time (Start)	Intial DTP	Intial DTW	Final DTP	Final DTW	Time (Stop)	Total Volume Removed (bbls)	Disposal Well Ticket Number
9/18/2024	RW-1	10:40 AM	--	55.55	--	55.72	11:10 AM	15	#211777
9/18/2024	HTRW-3	11:15 AM	--	52.41	--	52.27	11:45 AM		
9/18/2024	HTRW-2	12:00 PM	--	50.95	--	50.92	12:30 PM		
9/18/2024	HTRW-1	12:35 PM	--	51.79	--	51.75	1:05 PM		
10/2/2024	RW-1	11:42 AM	--	55.64	--	55.75	12:12 PM	17	#216119
10/2/2024	HTRW-3	12:18 PM	--	52.20	--	52.41	12:48 PM		
10/2/2024	HTRW-2	12:55 PM	--	50.90	--	51.10	1:25 PM		
10/2/2024	HTRW-1	1:32 PM	--	51.78	--	51.64	2:02 PM		
10/16/2024	RW-1	10:33 AM	--	55.66	--	55.99	11:03 AM	--	#216560
10/16/2024	HTRW-3	11:09 AM	--	52.20	--	52.24	11:44 AM		
10/16/2024	HTRW-2	11:55 AM	--	50.94	--	51.00	12:25 PM		
10/16/2024	HTRW-1	12:33 PM	--	51.68	--	51.80	1:03 PM		
10/30/2024	RW-1	10:30 AM	--	55.64	--	56.22	11:00 AM	17	#215575
10/30/2024	HTRW-3	11:07 AM	--	52.26	--	52.77	11:37 AM		
10/30/2024	HTRW-2	11:52 AM	--	20.98	--	51.38	12:12 PM		
10/30/2024	HTRW-1	12:14 PM	--	50.69	--	--	12:44 PM		
11/14/2024	RW-1	11:45 AM	--	55.65	--	56.03	12:15 PM	15	#215460
11/14/2024	HTRW-3	12:18 PM	--	5238.00	--	52.72	12:48 PM		
11/14/2024	HTRW-2	12:50 PM	--	51.61	--	52.02	13:20 PM		
11/14/2024	HTRW-1	13:23 PM	--	51.82	--	52.09	13:53 PM		
12/3/2024	RW-1	9:15 AM	--	55.64	--	55.71	9:45 AM	17	#214104
12/3/2024	HTRW-3	10:39 AM	--	52.21	--	52.47	11:09 AM		
12/3/2024	HTRW-2	11:50 AM	--	50.95	--	50.97	12:20 PM		
12/3/2024	HTRW-1	11:15 AM	--	51.66	--	51.80	11:45 AM		
2/18/2025	RW-1	9:50 AM	--	55.79	--	55.91	10:20 AM	16	#218384
2/18/2025	HTRW-3	10:24 AM	--	52.31	--	53.12	10:54 AM		
2/18/2025	HTRW-2	10:58 AM	--	51.02	--	51.61	11:28 AM		
2/18/2025	HTRW-1	11:35 AM	--	51.85	--	51.85	12:05 PM		

Sante Fe Main Office
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General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 447125
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
jburdine	Review of the Site Status Report for the Hobbs Tank 5201 Release AP-113: content satisfactory 1. Continue to conduct air sparging as prescribed on HTRW-1. 2. Continue use EFR every two weeks on wells RW-1, HTRW-1, HTRW-2 and HTRW-3 3. Continue the use of an ORC sock in RW-1, HTRW-1 and HTRW-3. 4. Continue to conduct groundwater monitoring per the work plan; sampling HTRW-1 quarterly and wells MW-2, MW-3, MW-4 and MW-5 semi-annually. 5. Submit the 2025 annual report to OCD by April 1, 2026.	6/9/2025
jburdine	Please submit a separate complete site closure report as per the requirements in 19.15.30 NMAC when that time is appropriate and requirements have been met via OCD permitting UF-GWA form.	6/9/2025