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REVIEWED
By Mike Buchanan at 2:38 pm, Jul 08, 2024

March 29, 2024

New Mexico Energy, Minerals and Natural Resources Department
New Mexico Oil Conservation Division
Attn: Mike Buchanan
1220 South St. Francis Drive
Santa Fe, NM 87505

Review of the Site Status Report for 2023, HF Sinclair, N. Monument 6 in. Gathering Line: Content Satisfactory
1. EFR schedule may be reduced from monthly to a quarterly schedule.
2. HF Sinclair may transition to a semi-annual schedule for groundwater monitoring events until all COCs are below the allowable concentrations, and then transition back to a quarterly schedule to collect eight (8) monitoring quarterly events for the incident closure requirement.
3. Include site investigation activities in next monitoring reports as well as conditions and any recommendations for incident remediation.
4. Submit the 2024 annual report to OCD by April 1, 2025.

Re: Site Status Report for 2023
HF Sinclair, North Monument 6-inch Gathering Line (nAPP1 [illegible])
Monument, New Mexico

Dear Mr. Buchanan:

On behalf of HF Sinclair (HFS), TRC Environmental Corporation (TRC) is pleased to submit the *Site Status Report for 2023* (Report) in reference to the HFS North Monument Release Site near Monument, New Mexico (Site). This Report documents 2023 response actions and groundwater monitoring conducted at the Site. The Report was prepared in general accordance with the Stage 1 Abatement Plan (AP) Proposal approved by the NMOCD in October 2004 and the initial Stage 2 AP submitted in October 2012.

If you should have any questions or comments regarding the Report for 2023, please feel free to contact Mike Holder of HFS at (575) 308-1115 or Bryan Gilbert of TRC at (925) 699-6184.

Sincerely,

Bryan Gilbert, P.G.
Austin Office ECW Practice Leader

Attachment:
Site Status Report for 2023

cc: Mike Holder, HF Sinclair, Dallas, Texas
Teal Glass, TRC, Austin, Texas

Site Status Report for 2023

Site Status Report for 2023

HF Sinclair Corporation

North Monument Release Site

6-Inch Gathering Line AP #34

March 2024

Prepared For:

Mr. Mike Holder, Environmental Manager

HF Sinclair Corporation

2828 N. Harwood, Suite 1300

Dallas, Texas 75201

Site Status Report for 2023

North Monument Release Site
Monument, New Mexico

Prepared for:

HF Sinclair Corporation
Artesia, New Mexico

Prepared by:

TRC Environmental Corporation
Austin, Texas

TRC Project No. 574868

March 2024

Project Manager		**Site Lead**	
Teal Glass		**Bryan Gilbert**	

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ACRONYMS AND ABBREVIATIONS

Notation	Description
AP	Abatement Plan
bbls	barrels
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
COCs	Chemicals of Concern
DRO	Diesel Range Organics
EFR	Enhanced Fluid Recovery
bgs	below ground surface
ft/ft	feet/foot
ft^2/day	feet squared per day
GRO	Gasoline Range Organics
HEP	Holly Energy Partners
HFS	HF Sinclair
ITRC	Interstate Technology and Regulatory Council
LNAPL	Light Non-Aqueous Phase Liquid
mg/L	Milligrams per liter
NMAC	New Mexico Administrative Code
NMOCD	New Mexico Oil Conservation Division
RLs	Reporting Limits
ROW	Right-of-way
TPH	Total Petroleum Hydrocarbons
TRC	TRC Environmental Corporation
WBH	Water Borehole well
WQCC	Water Quality Control Commission

1.0 Introduction

On behalf of HF Sinclair Corporation (HFS), TRC Environmental Corporation (TRC) is submitting this *Site Status Report for 2023* to summarize the results of routine groundwater monitoring and light non-aqueous phase liquid (LNAPL) recovery activities conducted from January 1, 2023, to December 31, 2023, at the North Monument Release Site (Site), 6-inch Gathering Line AP #34 located in Lea County, New Mexico. A site location map is provided as Figure 1.

The original release occurred in 2002 due to leaks from a pipeline owned by HFS and operated by Holly Energy Partners (HEP). HFS submitted the C141 report in October 2002. The Stage 1 Abatement Plan (AP) was enacted in April 2004. The Stage 2 AP was tendered in October 2012 with status reports submitted annually from 2012 to 2022. Remedial activities currently consist of enhanced fluid recovery (EFR) and groundwater monitoring. HFS previously retained GHD to perform assessment activities in accordance with 19.15.29 New Mexico Administrative Code (NMAC).

A *Request for Modifications to Stage 2 Abatement Plan* was submitted to the NMOCD on January 23, 2024, which requested a reduction in the EFR schedule from monthly to quarterly beginning in 2024 and a reduction in the groundwater monitoring from quarterly to semi-annually beginning in 2025. The January 2024 request is pending NMOCD approval.

1.1 Site Background

On October 5, 2002, a 2,100 barrel (bbl) inventory discrepancy prompted suspicion of a leak at a 6-inch gathering line. Although the line was newly installed in 2000, acidized crude oil found in the line may have been a factor in the release. In 2002, approximately seven leaks were identified, and 600 feet of damaged pipeline located both east and west of Maddox Road were removed. New pipe was installed approximately 150 feet south of the leak area to allow for remedial activities. An approximate 300 by 700-foot area to a depth of 15 feet was excavated.

1.2 Site Setting

The North Monument 6-inch Gathering Line Release is approximately two miles northwest of Monument, New Mexico. The Site is located at the NW ¼ of the SW ¼ of Section 30, Township 19 South, Range 37 East with coordinates at 32° 37’ 50.2” North, 103° 17’ 52.8” West (see Figure 1). The release occurred at HFS’s right-of-way (ROW) pipeline approximately 0.5 miles north of New Mexico (NM) 322/County Road 42 and adjacent to Maddox Road/County Road 41. Site topography has minimal elevation change and maintains 3,637 feet above mean sea level. Oil and gas production wells and open rangeland surround the Site.

1.3 Summary of Previous Investigations and Remediation

Seven groundwater monitoring wells and 164 temporary borehole wells were installed or advanced between 2002 and 2011 in the assessment area and 102 of the temporary wells were completed as permanent borehole wells. As of 2023, 37 remaining borehole wells are used to measure and recover LNAPL.

Site impacts were limited to the hydrocarbons in soil and groundwater at the pipeline release location. The 2004 excavation depth to approximately 15 feet below ground surface (bgs) on the east side of Maddox Road and adjacent to the north side of the removed pipeline recovered most of the petroleum-stained soil. Hydrocarbon-saturated soils were noted at the bottom of the excavation; however, the excavation was backfilled due to safety concerns. A limited amount of soil was removed from the south side of the pipeline release due to the monitoring and borehole wells in the area. Soil borings near the release area detected hydrocarbons in soil above action levels stated under 19.15.29 NMAC.

Five monitoring wells were initially installed following the LNAPL release. LNAPL was measured in two of the monitoring wells (MW-2 and MW-4) prompting well abandonment in 2002. In 2008, two additional monitoring wells (MW-6 and MW-7) were installed. MW-3 had benzene detected above the New Mexico Water Quality Control Commission (WQCC) standards from 2004 to 2006. MW-5 had benzene detected above the WQCC standard in 2004 only. MW-6 had benzene detected above the WQCC standard in 2010 and 2014. MW-1, located upgradient of the release, did not have soil staining or elevated hydrocarbons in the soil and groundwater. None of the five monitoring wells have detected benzene, toluene, ethylbenzene, or total xylenes (BTEX) above WQCC standards since June 2017. Polycyclic aromatic hydrocarbons (PAHs) have not been detected above state standards in any of the five monitoring wells according to GHD's *Site Status Report for 2020* submitted on March 22, 2023.

In February 2013, 14 4-inch recovery wells were installed to recover LNAPL in the release area as shown on Figure 2. It is estimated that 1,179 bbls of LNAPL were recovered from Site wells using manually-controlled pumps from 2004 to 2011 and a LNAPL-only skimmer pump recovery system from 2013 to 2015. Use of the recovery system was ended after the pumps were damaged from the acidified crude oil. After March 2015, LNAPL has been recovered using a vacuum truck and oil absorbent socks. Actual LNAPL recovery volumes are estimated to be less than 50 gallons per EFR event. It is estimated that 1,359 bbls of LNAPL have been removed from 2010 to 2022 using manual pumps and/or vacuum trucks (i.e., EFR). In 2015, 65 wells which lacked groundwater or LNAPL were abandoned.

Analytical and fluid level results through 2022 were previously documented with the New Mexico Oil Conversation Division (NMOCD) via Site Status Reports submitted by GHD; the most

recent Site Status Report was submitted to NMCOD on March 22, 2023, and was approved by the NMOCD on August 14, 2023.

1.4 Site Conceptual Model

The Site is located within the pipeline ROW associated with oil production and on New Mexico State land. No surface water bodies are located within 1,000 feet of the Site. The Site is about two miles northwest of Monument, New Mexico and contains multiple well pads and LNAPL gathering lines. The closest residences are approximately 0.8 miles southeast of the Site. One windmill is located approximately 1,500 feet to the east and down gradient of the Site and was determined not to be impacted by the 2002 release based on the results of historical investigation and groundwater monitoring events.

Soil beneath the Site consists of caliche (i.e., carbonate indurated rock), fine-grained sand, gravelly sand, and sandstone. Groundwater beneath the Site groundwater is present at a depth of 14 to 22 feet bgs and generally flows to the east. LNAPL has not been detected in groundwater monitoring wells downgradient (i.e., east) of the 2002 release location.

LNAPL associated with the 2002 release appears localized to the immediate vicinity of the 6-inch gathering line. Abatement has been conducted since 2004. Since 2021, EFR has occurred via vacuum truck, decreasing the total accumulated thickness of LNAPL (i.e., the sum of apparent LNAPL thicknesses in all Site wells) by approximately 45.5 feet between 2012 and 2023. Since 2017, the dissolved phase chemical of concern (COC) concentrations in groundwater at Site monitoring wells have been below the WQCC standards for BTEX.

LNAPL and dissolved phase COCs in groundwater do not pose a risk to the environment or drinking water wells in the area. The LNAPL is stable and is not mobile as indicated by stable to decreasing LNAPL thicknesses in Site wells. The LNAPL is also believed to have a low mobility due to high amounts of paraffin, so it does not readily desorb or dissolve. Site closure will be requested when measurable LNAPL is negligible in Site wells (there are no hydrocarbon detections above WQCC standards in the monitoring wells).

2.0 2023 Site Activities

The 2023 Site activities consisted of quarterly groundwater monitoring, monthly EFR conducted via vacuum truck starting in April 2023, and transmissivity baildown tests at select wells during October 2023. The objectives of the Site activities are to monitor the LNAPL and COC plumes in groundwater and evaluate the effectiveness of monthly EFR recovery activities. The 2023 Site activities are further discussed below.

2.1 Groundwater Monitoring Program

Site groundwater monitoring occurred during February, August, and October 2023. Groundwater monitoring activities consisted of (1) gauging all existing monitoring wells, recovery wells, and borehole wells and (2) collecting groundwater samples for laboratory analysis from monitoring wells. The locations of the monitoring wells, recovery wells, and borehole wells are presented on Figure 2.

The following deviation occurred during the 2023 groundwater monitoring program: quarterly groundwater monitoring was not completed during the second quarter of 2023 due to oilfield atmospheric safety conditions (i.e., low oxygen readings) observed during the field work in June 2023. While the cause of the low oxygen readings is unknown, there are several active oil and gas wells in the site vicinity that may have contributed to the observed readings. After developing appropriate safety measures, field staff returned to the site in August 2023 (i.e., during the third quarter) and safely completed the third quarter groundwater monitoring event. HFS submitted a memorandum to NMOCD on September 11, 2023, documenting the safety issue and requesting NMOCD concurrence with the cancelled second quarter 2023 groundwater monitoring event. The NMOCD approved the September 2023 memorandum on October 10, 2023.

Depth to LNAPL and depth to water measurements were collected using an oil/water interface probe. Groundwater samples were collected from monitoring wells MW-1, MW-3, MW-5, MW-6, and MW-7 for analysis of select COCs via low-flow sampling methodology. An electric, submersible, variable-rate pump and clean discharge tubing were slowly lowered into each well to prevent turbulence and mixing of any sediment from the bottom of the well. The pump was placed in the approximate center of the saturated screened interval and groundwater was purged at a low rate to minimize groundwater level drawdown in the well. Discharge tubing was connected to a flow-through cell which housed a multi-parameter water quality meter. Groundwater quality parameters were measured approximately every three to five minutes during purging until at least three of the six recorded field parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were stable. Monitoring well depth to groundwater and pump flow rate were also monitored during purging.

The flow-through cell was disconnected, and a groundwater sample was collected from the discharge line of the pump once field parameters were stable. Samples were collected in clean, labeled, laboratory-supplied containers. All samples were handled with new nitrile gloves and labeled with the sample identification, collection date and time, sample analysis, preservatives, and initials of the samplers. The samples were then placed on ice in a laboratory-supplied cooler which remained in the custody of the sampling personnel until shipped under chain of custody to DHL Analytical of Round Rock, Texas. All non-dedicated equipment was decontaminated prior to being used at the Site and after use at each well.

2.2 Groundwater Monitoring Results

2.2.1 Gauging Data

Fluid level measurements were taken at monitoring wells and borehole wells during the quarterly monitoring events to determine the groundwater elevation, flow direction and gradient, the presence or absence of LNAPL, and apparent LNAPL thickness.

Site-wide fluid level gauging was performed during the quarterly groundwater monitoring events on February 23, 2023, August 14, 2023, and October 18 and 19, 2023. LNAPL was detected in 27 of the 37 wells gauged at apparent LNAPL thicknesses ranging from 0.04 feet to 2.06 feet (BH-17) during the February 2023 event; 29 of the 37 wells gauged at apparent LNAPL thicknesses ranging from 0.04 feet to 2.14 feet (BH-17) during the August 2023 event; and 21 of the 37 wells gauged at apparent LNAPL thicknesses ranging from 0.01 feet to 0.97 feet (BH-103) during the October 2023 event. A summary of fluid level measurement data is presented in Table 1. The February, August, and October 2023 LNAPL thickness maps are depicted on Figures 3, 4, and 5, respectively.

Appendix A includes graphs of apparent LNAPL thicknesses for select borehole and recovery wells with relatively large apparent LNAPL thicknesses compared to other wells at the Site, including wells BH-17, BH-39, BH-103, and WBH-20. As shown, apparent LNAPL thicknesses at these wells have been stable to decreasing with fluctuations since 2012. As shown on Figure 9, the total accumulated thickness of LNAPL decreased by approximately 45.5 feet between 2012 and 2023, and is stable to decreasing (i.e., asymptotic) with fluctuations.

Groundwater flow was generally to the east at a hydraulic gradient of 0.005 feet per foot in October 2023 and 0.006 feet per foot in February and August 2023; this is generally consistent with previous monitoring events conducted at the Site. Between the previous monitoring event in December 2022 and February 2023, groundwater elevations in the monitoring wells decreased by an average of 0.13 feet. Between February 2023 and August 2023, groundwater elevations decreased by an average of 0.59 feet. Between August 2023 and October 2023, groundwater elevations increased by an average of 1.63 feet. The February, August, and

October 2023 groundwater potentiometric surface maps are depicted on Figures 6, 7, and 8, respectively.

2.2.2 Groundwater Analytical Results

Groundwater samples were analyzed for BTEX by EPA Method 8260C and total petroleum hydrocarbons (TPH) diesel range organics (DRO) and TPH gasoline range organics (GRO) by Method 8015.

During all three events, BTEX was not detected above the WQCC standards. New Mexico has not established WQCC standards for TPH DRO or TPH GRO. All 2023 BTEX and TPH results were not detected above their reporting limits (RLs) with the exception of TPH GRO in well MW-6 during February (0.531 milligrams per liter [mg/L]), August (0.235 mg/L [duplicate sample]), and October 2023 (0.292 mg/L); and TPH DRO in well MW-6 during October 2023 (0.464 mg/L). The 2023 detected concentrations of TPH GRO and TPH DRO in MW-6 are consistent with historical results.

A summary of groundwater sample analytical data is presented in Table 2. Copies of the laboratory analytical reports are included in Appendix B. A figure is not provided for 2023 analytical results as no COCs exceeded their respective WQCC Groundwater Standards.

2.2.3 Quality Assurance/Quality Control Results

Data were reviewed to ensure that reported analytical results met standard data quality objectives and laboratory-specified control limits. Data were reviewed with respect to analytical holding times, sample preservation, blanks (method and trip), laboratory control sample recoveries, matrix spike/matrix spike duplicate recoveries, and surrogate recoveries. The TPH DRO samples from February 2023 results were inadvertently extracted outside of hold time by 5 days due to a laboratory error, so the TPH DRO results may be considered estimated, biased low. However, it was determined that quality control data associated with the analytical results are defensible and measurement data reliability is generally within the expected limits of sampling and analytical error. The Data Review Checklists are provided in Appendix B.

2.3 Enhanced Fluid Recovery of LNAPL

During quarterly groundwater monitoring events, an oil/water interface probe was used to determine the apparent LNAPL thickness in Site borehole and recovery wells. If the apparent LNAPL thickness was less than 0.25 feet, the well did not undergo EFR during the subsequent monthly EFR events. If the apparent LNAPL thickness was greater than 0.25 feet, EFR was performed at the well during subsequent monthly EFR events. All borehole and recovery wells were reevaluated for EFR based on the apparent LNAPL thickness measured during the next quarterly groundwater monitoring event.

The following deviations occurred during the 2023 EFR program:

- EFR was not conducted from January to March 2024 to allow for the change from GHD to TRC.
- EFR was not conducted in June and July 2023 due to oilfield atmospheric safety conditions (i.e., low oxygen readings) observed during the field work in June 2023 (see discussion of deviation to the groundwater monitoring program in Section 2.1).

EFR was performed at select borehole and recovery wells using a vacuum truck to remove LNAPL and groundwater. LNAPL and groundwater were recovered until the fluid in the down-well "stinger tube" was colorless or until mostly air was being removed. Between April and December 2013, EFR was performed on approximately 16 borehole and recovery wells per event. It is estimated that approximately 20 gallons of liquids (LNAPL and groundwater) was recovered per well per EFR event during 2023 for a total liquid recovery of approximately 2,240 gallons. Actual LNAPL recovery volumes are unknown but are estimated to be less than 10 percent of the total liquid recovered. Thus, it is estimated that a total of approximately 224 gallons of LNAPL was recovered from the Site using EFR in 2023.

2.4 Transmissivity Testing

From October 18 to 20, 2023, TRC performed LNAPL transmissivity bail down tests at wells BH-17, BH-39, BH-103, and WBH-20. These four wells were selected for transmissivity testing because of their relatively large apparent LNAPL thickness prior to the bail down test and spatial representation of the LNAPL plume. Well locations are shown on Figure 2. A detailed discussion of the results of the transmissivity test can be found in the January 2024 submittal *Request for Modifications to Stage 2 Abatement Plan.*

Based on the summary from the January 2024 submittal, results of the LNAPL transmissivity study indicated the following when compared to the Interstate Technology and Regulatory Council's (ITRC) calculated transmissivity of 0.80 feet squared per day (ft^2/day) that indicates LNAPL may not be recoverable below 0.80 ft^2/day:

- The LNAPL transmissivities at wells BH-17 and BH-39, located at the central portion of the Site, are below the upper threshold for sustainable LNAPL recovery, indicating LNAPL recovery from these wells would not be effective.
- The LNAPL transmissivity at well BH-103, located at the central portion of the Site, is near the upper threshold for sustainable LNAPL recovery, indicating LNAPL recovery from this well would likely be limited.
- The LNAPL transmissivity at well WBH-20, located at the western portion of the Site, was several times higher than the upper threshold for sustainable LNAPL recovery, indicating potentially recoverable LNAPL at this well.

2.5 Investigation-Derived Waste Management

The water investigation-derived waste (IDW) generated during the 2023 monitoring activities, including purge and decontamination water, were temporarily contained, and recovered using the vacuum truck after each quarterly event and properly recycled off-Site by M Mata Trucking. Field supplies (paper towels, gloves, tubing, etc.) used during field activities were stored in trash bags and buckets at the Site for later disposal.

3.0 Remediation Status

LNAPL was recovered using a skimmer pump system from 2013 to 2015 but was discontinued due to acidified oil damage. Oil absorbent socks have been used sporadically in wells with less than 0.25 feet of apparent LNAPL (no absorbent socks were used during 2023). Following deactivation of the skimmer pump system in 2015, EFR has been conducted on a monthly basis at wells with more than 0.25 feet of apparent LNAPL.

As shown on Figure 9, the total accumulated thickness of LNAPL decreased by approximately 45.5 feet between 2012 and 2023, and is stable to decreasing (i.e., asymptotic) with fluctuations. The maximum thickness during 2023 was in well BH-17 with a maximum thickness of 2.14 feet (August 2023).

As discussed above, it is estimated that a total of approximately 224 gallons of LNAPL was recovered from the Site using EFR in 2023. Since 2010, a total of approximately 1,583 bbls of LNAPL has been recovered using manual pumps and/or vacuum trucks (i.e., EFR).

4.0 Conclusions and Recommendations

The following conclusions are based on groundwater monitoring results and EFR conducted during 2023:

- During the February, August, and October quarterly monitoring events, groundwater monitoring flow was to the east. This is generally consistent with previous monitoring events conducted at the Site.
- LNAPL was detected in 27 of the 35 wells during the February 2023 event, 29 of the 35 wells during the August 2023 event, and 21 of the 37 wells during the October 2023 event. LNAPL thicknesses have overall been declining since 2012. The remaining LNAPL plume is stable to decreasing and delineated.
- Approximately 2,240 gallons of liquid, including 224 gallons of LNAPL, were removed using monthly EFR in 2023.
- Consistent with historical results, BTEX is not present in Site monitoring wells above RLs, and RLs are below WQCC groundwater standards, thus providing delineation of groundwater COCs at the Site. Only TPH GRO and TPH DRO were detected above RLs in well MW-6.
- LNAPL transmissivities calculated from LNAPL bail down tests performed in October 2023 showed LNAPL recovery at BH-17 and BH-19 would not be effective, LNAPL recovery at BH-103 would likely be limited, and LNAPL in WBH-20 is potentially recoverable.
- Overall, the 2023 groundwater monitoring data supports previous conclusions that the remaining LNAPL is confined to the immediate 2002 release area and has not migrated from the Site. Remaining LNAPL and dissolved phase COCs in groundwater do not pose a risk to the environment or drinking water wells in the area.

Quarterly groundwater monitoring and monthly EFR will continue at the Site during 2024, pending approval of the January 2024 *Request for Modifications to Stage 2 Abatement Plan*, which requested a reduction in the EFR schedule from monthly to quarterly beginning in 2024 and a reduction in the groundwater monitoring from quarterly to semi-annually beginning in 2025. The current NMOCD Closure and Site Reclamation Requirements (19.15.17.13 NMAC) require the Site to have LNAPL removed to a negligible amount to protect groundwater. The next *Annual Groundwater Monitoring Report* summarizing 2024 quarterly groundwater monitoring activities and EFR will be submitted to the NMOCD by April 1, 2025. Site conditions will be evaluated after completion of 2024 and 2025 EFR and groundwater monitoring events, including additional transmissivity testing in 2026.

TABLES

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
WBH-11	Unknown	7/26/2012	24.41	25.03	0.62	- -	- -	30.28
		12/20/2012	24.40	25.69	1.29	0.67	- -	- -
		6/19/2013	24.29	26.36	2.07	0.78	- -	- -
		12/12/2013	23.47	25.27	1.80	-0.27	- -	- -
		6/26/2014	23.32	24.87	1.55	-0.25	- -	- -
		12/18/2014	23.43	24.35	0.92	-0.63	- -	- -
		3/18/2015	24.10	25.04	0.94	0.02	- -	- -
		6/8/2015	23.83	24.50	0.67	-0.27	- -	- -
		9/15/2015	24.40	24.54	0.14	-0.53	- -	- -
		12/16/2015	- -	24.29	- -	-0.14	- -	- -
		6/6/2016	24.60	24.98	0.38	0.38	- -	- -
		9/25/2016	22.80	22.84	0.04	-0.34	- -	- -
		10/28/2016	22.79	22.84	0.05	0.01	- -	- -
		12/11/2016	- -	24.05	- -	-0.05	- -	- -
		1/21/2017	- -	24.25	- -	0.00	- -	- -
		2/19/2017	24.38	24.40	0.02	0.02	- -	- -
		3/14/2017	- -	25.40	- -	-0.02	- -	- -
		4/20/2017	24.50	24.60	0.10	0.10	- -	- -
		6/6/2017	24.55	24.57	0.02	-0.08	- -	- -
		9/19/2017	23.68	23.72	0.04	0.02	- -	- -
		12/6/2017	24.32	24.42	0.10	0.06	- -	- -
		1/24/2018	24.68	24.75	0.07	-0.03	- -	- -
		2/21/2018	- -	24.55	- -	-0.07	- -	- -
		3/15/2018	- -	22.58	- -	0.00	- -	- -
		6/6/2018	- -	24.70	- -	0.00	- -	- -
		7/17/2018	24.90	24.93	0.03	0.03	- -	- -
		9/24/2018	Trace	24.18	- -	-0.03	- -	- -
		10/10/2018	Trace	24.35	- -	0.00	- -	- -
		12/11/2018	- -	24.20	- -	0.00	- -	- -
		3/13/2019	- -	24.68	- -	0.00	- -	- -
		6/26/2019	- -	24.95	- -	0.00	- -	- -
		9/21/2019	- -	25.04	- -	0.00	- -	- -
		12/3/2019	- -	24.70	- -	0.00	- -	- -
		3/12/2020	- -	22.23	- -	0.00	- -	- -
		5/20/2020	- -	24.80	- -	0.00	- -	- -
		6/18/2020	- -	25.06	- -	0.00	- -	- -
		8/13/2020	- -	25.78	- -	0.00	- -	- -
		9/15/2020	- -	25.40	- -	0.00	- -	- -
		12/2/2020	- -	24.93	- -	0.00	- -	- -
		3/24/2021	- -	25.70	- -	0.00	- -	- -
		6/8/2021	- -	25.82	- -	0.00	- -	- -
		8/5/2021	- -	22.98	- -	0.00	- -	- -
		9/21/2021	- -	24.45	- -	0.00	- -	- -
		12/2/2021	- -	23.23	- -	0.00	- -	- -
		3/23/2022	- -	23.76	- -	0.00	- -	- -
		6/1/2022	- -	24.01	- -	0.00	- -	- -
		9/28/2022	- -	25.91	- -	0.00	- -	- -
		12/7/2022	- -	26.03	- -	0.00	- -	- -
		2/23/2023	- -	26.03	- -	0.00	- -	30.39
		8/14/2023	- -	26.50	- -	0.00	- -	30.41
		10/18/2023	- -	25.36	- -	0.00	- -	- -

TABLE 1
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HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
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Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
WBH-13	Unknown	7/26/2012	24.99	25.05	0.06	- -	- -	30.32
		12/20/2012	25.04	25.12	0.08	0.02	- -	- -
		6/19/2013	25.16	25.20	0.04	-0.04	- -	- -
		12/12/2013	24.16	24.36	0.20	0.16	- -	- -
		6/26/2014	23.95	24.32	0.37	0.17	- -	- -
		12/18/2014	23.98	24.22	0.24	-0.13	- -	- -
		3/18/2015	24.67	25.05	0.38	0.14	- -	- -
		6/8/2015	24.37	24.48	0.11	-0.27	- -	- -
		9/15/2015	- -	24.90	- -	-0.11	- -	- -
		12/6/2015	- -	24.75	- -	0.00	- -	- -
		6/6/2016	25.08	25.24	0.16	0.16	- -	- -
		9/25/2016	23.15	23.38	0.23	0.07	- -	- -
		12/11/2016	24.45	24.90	0.45	0.22	- -	- -
		1/21/2017	24.60	25.07	0.47	0.02	- -	- -
		2/19/2017	24.77	25.37	0.60	0.13	- -	- -
		3/14/2017	24.80	25.30	0.50	-0.10	- -	- -
		4/20/2017	24.90	25.75	0.85	0.35	- -	- -
		6/6/2017	24.80	25.48	0.68	-0.17	- -	- -
		9/19/2017	24.02	24.30	0.28	-0.40	- -	- -
		12/6/2017	23.63	24.20	0.57	0.29	- -	- -
		1/24/2018	24.69	26.29	1.60	1.03	- -	- -
		2/21/2018	22.75	23.40	0.65	-0.95	- -	- -
		3/15/2018	24.67	26.55	1.88	1.23	- -	- -
		6/6/2018	24.68	26.88	2.20	0.32	- -	- -
		7/17/2018	25.00	27.70	2.70	0.50	- -	- -
		9/24/2018	24.40	25.78	1.38	-1.32	- -	- -
		10/10/2018	24.66	25.80	1.14	-0.24	- -	- -
		12/11/2018	24.55	25.75	1.20	0.06	- -	- -
		1/23/2019	24.76	26.60	1.84	0.64	- -	- -
		3/13/2019	24.65	27.35	2.70	0.86	- -	- -
		6/26/2019	25.08	27.17	2.09	-0.61	- -	- -
		9/21/2019	25.15	27.22	2.07	-0.02	- -	- -
		12/3/2019	24.87	26.80	1.93	-0.14	- -	- -
		3/12/2020	24.50	25.83	1.33	-0.60	- -	- -
		5/20/2020	24.90	26.93	2.03	0.70	- -	- -
		6/18/2020	25.10	27.35	2.25	0.22	- -	- -
		8/13/2020	24.48	25.83	1.35	-0.90	- -	- -
		9/15/2020	25.48	27.70	2.22	0.87	- -	- -
		11/12/2020	25.68	27.62	1.94	-0.28	- -	- -
		12/2/2020	24.63	26.25	1.62	-0.32	- -	- -
		3/24/2021	25.90	27.70	1.80	0.18	- -	- -
		6/8/2021	25.90	28.46	2.56	0.76	- -	- -
		8/5/2021	25.23	26.58	1.35	-1.21	- -	- -
		9/21/2021	22.85	23.30	0.45	-0.90	- -	- -
		12/2/2021	25.48	26.52	1.04	0.59	- -	- -
		3/23/2022	26.05	26.80	0.75	-0.29	- -	- -
		6/1/2022	26.33	26.85	0.52	-0.23	- -	- -
		9/28/2022	26.28	27.06	0.78	0.26	- -	- -
		12/7/2022	26.25	26.95	0.70	-0.08	- -	- -
		2/23/2023	26.41	27.12	0.71	0.01	- -	30.34
		8/14/2023	26.88	27.59	0.71	0.00	- -	
		10/18/2023	25.69	26.06	0.37	-0.34	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
WBH-20	Unknown	7/26/2012	23.71	24.79	1.08	- -	- -	30.31
		12/20/2012	23.81	24.92	1.11	0.03	- -	- -
		6/19/2013	23.75	25.11	1.36	0.25	- -	- -
		12/12/2013	22.95	24.10	1.15	-1.00	- -	- -
		6/26/2014	22.76	23.76	1.00	0.64	- -	- -
		12/18/2014	22.81	23.80	0.99	-0.01	- -	- -
		3/18/2015	23.47	24.55	1.08	0.09	- -	- -
		6/8/2015	23.22	23.95	0.73	-0.35	- -	- -
		9/15/2015	23.78	24.02	0.24	-0.49	- -	- -
		12/16/2015	23.65	23.82	0.17	-0.07	- -	- -
		6/6/2016	23.89	25.04	1.15	0.98	- -	- -
		9/25/2016	21.98	23.38	1.40	0.25	- -	- -
		10/28/2016	21.96	23.40	1.44	0.04	- -	- -
		12/11/2016	23.35	24.10	0.75	-0.69	- -	- -
		1/21/2017	24.57	25.07	0.50	-0.25	- -	- -
		2/19/2017	24.70	25.20	0.50	0.00	- -	- -
		3/14/2017	23.70	24.38	0.68	0.18	- -	- -
		4/20/2017	23.80	24.65	0.85	0.17	- -	- -
		6/6/2017	23.95	24.83	0.88	0.03	- -	- -
		9/19/2017	22.97	23.57	0.60	-0.28	- -	- -
		12/6/2017	24.60	25.55	0.95	0.35	- -	- -
		1/24/2018	23.78	24.29	0.51	-0.44	- -	- -
		2/21/2018	22.85	23.64	0.79	0.28	- -	- -
		3/15/2018	23.87	24.77	0.90	0.11	- -	- -
		6/6/2018	23.98	24.98	1.00	0.10	- -	- -
		7/17/2018	24.07	25.60	1.53	0.53	- -	- -
		9/24/2018	22.42	23.58	1.16	-0.37	- -	- -
		10/10/2018	23.66	24.33	0.67	-0.49	- -	- -
		12/11/2018	23.52	24.20	0.68	0.01	- -	- -
		1/23/2019	23.82	24.70	0.88	0.20	- -	- -
		3/13/2019	23.90	25.15	1.25	0.37	- -	- -
		6/26/2019	24.11	25.52	1.41	0.16	- -	- -
		9/21/2019	24.20	25.75	1.55	0.14	- -	- -
		12/3/2019	23.93	25.15	1.22	-0.33	- -	- -
		3/12/2020	23.53	24.28	0.75	-0.47	- -	- -
		5/20/2020	24.00	25.33	1.33	0.58	- -	- -
		6/18/2020	24.20	25.60	1.40	0.07	- -	- -
		8/13/2020	25.38	27.72	2.34	0.94	- -	- -
		9/15/2020	22.58	25.90	3.32	0.98	- -	- -
		11/12/2020	24.80	25.61	0.81	-2.51	- -	- -
		12/2/2020	24.75	25.70	0.95	0.14	- -	- -
		3/24/2021	25.00	25.80	0.80	-0.15	- -	- -
		6/8/2021	25.10	26.08	0.98	0.18	- -	- -
		8/5/2021	24.28	24.80	0.52	-0.46	- -	- -
		9/21/2021	23.95	23.97	0.02	-0.50	- -	- -
		12/2/2021	24.58	24.79	0.21	0.19	- -	- -
		3/23/2022	25.10	25.22	0.12	-0.09	- -	- -
		6/1/2022	25.34	25.44	0.10	-0.02	- -	- -
		9/28/2022	25.31	25.48	0.17	0.07	- -	- -
		12/7/2022	25.28	25.60	0.32	0.15	- -	- -
		2/23/2023	25.39	26.00	0.61	0.29	- -	30.30
		8/14/2023	25.72	27.21	1.49	0.88	- -	- -
		10/18/2023	24.73	25.03	0.30	-1.19	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-4-4	Unknown	7/26/2012	18.88	19.05	0.17	- -	- -	25.36
		12/20/2012	18.90	19.07	0.17	0.00	- -	- -
		6/19/2013	19.02	19.28	0.26	0.09	- -	- -
		12/12/2013	18.04	18.43	0.39	0.13	- -	- -
		6/26/2014	17.91	18.65	0.74	0.35	- -	- -
		12/18/2014	17.90	18.49	0.59	-0.15	- -	- -
		3/18/2015	18.66	19.22	0.56	-0.03	- -	- -
		6/8/2015	18.23	18.77	0.54	-0.02	- -	- -
		9/15/2015	18.87	18.98	0.11	-0.43	- -	- -
		12/16/2015	- -	18.71	- -	-0.11	- -	- -
		6/6/2016	24.83	24.84	0.01	0.01	- -	- -
		9/25/2016	- -	17.22	- -	-0.01	- -	- -
		10/28/2016	18.02	18.06	0.04	0.04	- -	- -
		12/11/2016	18.48	18.55	0.07	0.03	- -	- -
		1/21/2017	- -	18.65	- -	-0.07	- -	- -
		2/19/2017	18.78	18.80	0.02	0.02	- -	- -
		3/14/2017	- -	18.83	- -	-0.02	- -	- -
		4/20/2017	18.95	19.05	0.10	0.10	- -	- -
		6/6/2017	18.97	18.99	0.02	-0.08	- -	- -
		9/19/2017	18.08	18.11	0.03	0.01	- -	- -
		12/6/2017	- -	18.80	- -	-0.03	- -	- -
		1/24/2018	19.94	20.00	0.06	0.06	- -	- -
		2/21/2018	- -	19.26	- -	-0.06	- -	- -
		3/15/2018	- -	19.26	- -	0.00	- -	- -
		6/6/2018	- -	19.16	- -	0.00	- -	- -
		7/17/2018	- -	19.33	- -	0.00	- -	- -
		9/24/2018	- -	19.06	- -	0.00	- -	- -
		10/10/2018	- -	19.24	- -	0.00	- -	- -
		12/11/2018	- -	18.97	- -	0.00	- -	- -
		1/23/2019	- -	19.02	- -	0.00	- -	- -
		3/13/2019	- -	19.10	- -	0.00	- -	- -
		6/26/2019	- -	19.46	- -	0.00	- -	- -
		9/21/2019	- -	19.50	- -	0.00	- -	- -
		12/3/2019	- -	19.42	- -	0.00	- -	- -
		3/12/2020	- -	18.65	- -	0.00	- -	- -
		5/20/2020	- -	18.88	- -	0.00	- -	- -
		6/18/2020	20.42	20.48	0.06	0.06	- -	- -
		9/15/2020	- -	20.18	- -	-0.06	- -	- -
		12/2/2020	- -	19.82	- -	0.00	- -	- -
		3/24/2021	- -	19.00	- -	0.00	- -	- -
		6/8/2021	- -	20.53	- -	0.00	- -	- -
		8/5/2021	- -	19.48	- -	0.00	- -	- -
		9/21/2021	- -	20.05	- -	0.00	- -	- -
		12/2/2021	- -	20.68	- -	0.00	- -	- -
		3/23/2022	- -	21.07	- -	0.00	- -	- -
		6/1/2022	- -	21.34	- -	0.00	- -	- -
		9/28/2022	- -	21.84	- -	0.00	- -	- -
		12/7/2022	- -	21.98	- -	0.00	- -	- -
		2/23/2023	20.41	20.51	0.10	0.10	- -	25.50
		8/14/2023	20.77	21.72	0.95	0.85	- -	- -
		10/18/2023	19.59	19.65	0.06	-0.89	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-16	Unknown	7/26/2012	22.85	23.20	0.35	- -	- -	29.50
		12/20/2012	22.83	23.17	0.34	-0.01	- -	- -
		6/19/2013	22.90	23.32	0.42	0.08	- -	- -
		12/12/2013	22.08	22.50	0.42	0.00	- -	- -
		6/26/2014	21.89	22.33	0.44	0.02	- -	- -
		12/18/2014	21.90	22.31	0.41	-0.03	- -	- -
		3/18/2015	22.57	23.05	0.48	0.07	- -	- -
		6/9/2015	22.29	22.63	0.34	-0.14	- -	- -
		9/15/2015	22.78	22.88	0.10	-0.24	- -	- -
		12/16/2015	22.65	22.81	0.16	0.06	- -	- -
		6/6/2016	23.01	23.21	0.20	0.04	- -	- -
		9/25/2016	21.10	21.40	0.30	0.10	- -	- -
		10/28/2016	21.98	22.09	0.11	-0.19	- -	- -
		12/11/2016	22.42	22.58	0.16	0.05	- -	- -
		1/21/2017	22.62	22.73	0.11	-0.05	- -	- -
		2/19/2017	22.70	22.86	0.16	0.05	- -	- -
		3/14/2017	22.76	22.90	0.14	-0.02	- -	- -
		4/20/2017	22.85	23.10	0.25	0.11	- -	- -
		6/6/2017	22.92	23.03	0.11	-0.14	- -	- -
		9/19/2017	- -	21.04	- -	-0.11	- -	- -
		12/6/2017	22.84	22.95	0.11	0.11	- -	- -
		1/24/2018	22.82	23.02	0.20	0.09	- -	- -
		2/21/2018	22.90	23.04	0.14	-0.06	- -	- -
		3/15/2018	- -	22.97	- -	-0.14	- -	- -
		6/6/2018	23.10	23.20	0.10	0.10	- -	- -
		7/17/2018	23.22	23.60	0.38	0.28	- -	- -
		9/24/2018	22.50	22.85	0.35	-0.03	- -	- -
		10/10/2018	22.70	22.95	0.25	-0.10	- -	- -
		12/11/2018	22.58	22.70	0.12	-0.13	- -	- -
		1/23/2019	22.92	23.02	0.10	-0.02	- -	- -
		3/13/2019	23.00	23.10	0.10	0.00	- -	- -
		6/26/2019	23.60	23.83	0.23	0.13	- -	- -
		9/21/2019	23.60	23.75	0.15	-0.08	- -	- -
		12/3/2019	23.05	23.32	0.27	0.12	- -	- -
		3/12/2020	22.58	22.98	0.40	0.13	- -	- -
		5/20/2020	23.11	23.60	0.49	0.09	- -	- -
		6/18/2020	23.26	23.66	0.40	-0.09	- -	- -
		9/15/2020	23.77	23.97	0.20	-0.20	- -	- -
		12/2/2020	- -	23.42	- -	-0.20	- -	- -
		3/24/2021	24.05	24.40	0.35	0.35	- -	- -
		6/8/2021	24.12	25.00	0.88	0.53	- -	- -
		8/5/2021	23.38	23.82	0.44	-0.44	- -	- -
		9/21/2021	- -	23.63	- -	-0.44	- -	- -
		12/2/2021	23.52	23.78	0.26	0.26	- -	- -
		3/23/2022	24.08	24.22	0.14	-0.12	- -	- -
		6/1/2022	24.32	24.48	0.16	0.02	- -	- -
		9/28/2022	24.26	24.51	0.25	0.09	- -	- -
		12/7/2022	24.20	24.40	0.20	-0.05	- -	- -
		2/23/2023	24.36	24.70	0.34	0.14	- -	29.64
		8/14/2023	24.83	25.23	0.40	0.06	- -	- -
		10/18/2023	23.64	23.82	0.18	1.74	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-17	Unknown	7/26/2012	21.85	22.45	0.60	- -	- -	27.60
		12/20/2012	21.77	23.08	1.31	0.71	- -	- -
		6/19/2013	21.63	23.82	2.19	0.88	- -	- -
		12/12/2013	20.92	22.66	1.74	-0.45	- -	- -
		6/26/2014	20.80	22.72	1.92	0.18	- -	- -
		12/18/2014	20.89	21.98	1.09	-0.83	- -	- -
		3/18/2015	21.64	22.23	0.59	-0.50	- -	- -
		6/8/2015	21.30	21.87	0.57	-0.02	- -	- -
		9/15/2015	21.70	23.31	1.61	1.04	- -	- -
		12/16/2015	21.43	23.53	2.10	0.49	- -	- -
		6/6/2016	21.67	24.57	2.90	0.80	- -	- -
		9/25/2016	20.13	20.31	0.18	-2.72	- -	- -
		10/28/2016	20.99	21.56	0.57	0.39	- -	- -
		12/11/2016	21.30	22.60	1.30	0.73	- -	- -
		1/21/2017	21.55	22.80	1.25	-0.05	- -	- -
		2/19/2017	21.66	22.97	1.31	0.06	- -	- -
		3/14/2017	21.72	22.90	1.18	-0.13	- -	- -
		4/20/2017	21.80	23.15	1.35	0.17	- -	- -
		6/6/2017	21.87	22.96	1.09	-0.26	- -	- -
		9/19/2017	21.11	21.40	0.29	-0.80	- -	- -
		12/6/2017	21.70	22.48	0.78	0.49	- -	- -
		1/24/2018	21.76	23.25	1.49	0.71	- -	- -
		2/21/2018	21.84	23.25	1.41	-0.08	- -	- -
		3/15/2018	21.88	23.10	1.22	-0.19	- -	- -
		6/6/2018	22.04	23.02	0.98	-0.24	- -	- -
		7/17/2018	22.72	23.96	1.24	0.26	- -	- -
		9/24/2018	20.73	22.17	1.44	0.20	- -	- -
		10/10/2018	21.70	22.72	1.02	-0.42	- -	- -
		12/11/2018	21.49	22.65	1.16	0.14	- -	- -
		1/23/2019	21.74	23.20	1.46	0.30	- -	- -
		3/13/2019	21.90	23.35	1.45	-0.01	- -	- -
		6/26/2019	22.20	23.34	1.14	-0.31	- -	- -
		9/21/2019	22.30	23.55	1.25	0.11	- -	- -
		12/3/2019	22.05	22.95	0.90	-0.35	- -	- -
		3/12/2020	21.45	23.08	1.63	0.73	- -	- -
		5/20/2020	22.20	22.85	0.65	-0.98	- -	- -
		6/18/2020	22.22	23.32	1.10	0.45	- -	- -
		8/13/2020	22.52	23.98	1.46	0.36	- -	- -
		9/15/2020	21.48	22.52	1.04	-0.42	- -	- -
		11/12/2020	22.75	24.38	1.63	0.59	- -	- -
		12/2/2020	22.63	24.75	2.12	0.49	- -	- -
		3/24/2021	22.80	25.18	2.38	0.26	- -	- -
		6/8/2021	22.90	25.45	2.55	0.17	- -	- -
		8/5/2021	22.20	24.04	1.84	-0.71	- -	- -
		9/21/2021	21.83	22.65	0.82	-1.02	- -	- -
		12/2/2021	22.58	23.24	0.66	-0.16	- -	- -
		3/23/2022	23.00	24.10	1.10	0.44	- -	- -
		6/1/2022	23.28	24.07	0.79	-0.31	- -	- -
		9/28/2022	23.11	24.48	1.37	0.58	- -	- -
		12/7/2022	23.05	24.25	1.20	-0.17	- -	- -
		2/23/2023	23.08	25.14	2.06	0.86	- -	28.20
		8/14/2023	23.58	25.72	2.14	0.08	- -	- -
		10/18/2023	22.52	23.38	0.86	-1.28	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-18	Unknown	7/26/2012	24.53	25.01	0.48	- -	- -	30.41
		12/20/2012	24.52	25.12	0.60	0.12	- -	- -
		6/19/2013	24.25	25.36	1.11	0.51	- -	- -
		12/12/2013	- -	- -	- -	-1.11	- -	- -
		6/26/2014	- -	- -	- -	0.00	- -	- -
		12/18/2014	23.51	24.31	0.80	0.80	- -	- -
		3/18/2015	24.28	24.95	0.67	-0.13	- -	- -
		6/9/2015	23.97	24.48	0.51	-0.16	- -	- -
		9/15/2015	24.50	24.65	0.15	-0.36	- -	- -
		12/16/2015	24.36	24.41	0.05	-0.10	- -	- -
		6/6/2016	24.74	24.75	0.01	-0.04	- -	- -
		9/25/2016	- -	22.80	- -	-0.01	- -	- -
		10/28/2016	- -	23.78	- -	0.00	- -	- -
		12/11/2016	- -	24.14	- -	0.00	- -	- -
		1/21/2017	- -	24.35	- -	0.00	- -	- -
		2/19/2017	- -	24.47	- -	0.00	- -	- -
		3/14/2017	- -	24.15	- -	0.00	- -	- -
		4/20/2017	- -	24.60	- -	0.00	- -	- -
		6/6/2017	- -	24.66	- -	0.00	- -	- -
		9/19/2017	- -	23.88	- -	0.00	- -	- -
		12/6/2017	- -	24.40	- -	0.00	- -	- -
		1/24/2018	- -	24.60	- -	0.00	- -	- -
		2/21/2018	- -	23.90	- -	0.00	- -	- -
		3/15/2018	- -	24.84	- -	0.00	- -	- -
		6/6/2018	- -	22.98	- -	0.00	- -	- -
		7/17/2018	- -	23.02	- -	0.00	- -	- -
		9/24/2018	- -	22.25	- -	0.00	- -	- -
		10/10/2018	- -	22.64	- -	0.00	- -	- -
		12/11/2018	- -	24.30	- -	0.00	- -	- -
		3/13/2019	- -	24.70	- -	0.00	- -	- -
		6/26/2019	- -	24.35	- -	0.00	- -	- -
		9/21/2019	- -	23.04	- -	0.00	- -	- -
		12/3/2019	24.85	24.90	0.05	0.05	- -	- -
		3/12/2020	24.10	24.15	0.05	0.00	- -	- -
		5/20/2020	- -	24.55	- -	-0.05	- -	- -
		6/18/2020	- -	24.60	- -	0.00	- -	- -
		9/15/2020	- -	24.07	- -	0.00	- -	- -
		12/2/2020	- -	24.85	- -	0.00	- -	- -
		3/24/2021	- -	25.92	- -	0.00	- -	- -
		6/8/2021	25.85	26.00	0.15	0.15	- -	- -
		8/5/2021	25.18	25.20	0.02	-0.13	- -	- -
		9/21/2021	- -	24.63	- -	-0.02	- -	- -
		12/2/2021	Trace	23.52	- -	0.00	- -	- -
		3/23/2022	Trace	23.95	- -	0.00	- -	- -
		6/1/2022	Trace	24.26	- -	0.00	- -	- -
		9/28/2022	25.99	26.13	0.14	0.14	- -	- -
		12/7/2022	26.03	26.08	0.05	-0.09	- -	- -
		2/23/2023	26.14	26.38	0.24	0.19	- -	30.45
		8/14/2023	26.54	26.83	0.29	0.05	- -	- -
		10/18/2023	25.40	25.57	0.17	-0.12	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-39	Unknown	7/26/2012	20.10	20.31	0.21	- -	- -	29.01
		12/20/2012	20.04	20.36	0.32	0.11	- -	- -
		6/19/2013	20.11	20.62	0.51	0.19	- -	- -
		12/12/2013	18.45	18.95	0.50	-0.01	- -	- -
		6/26/2014	18.37	18.85	0.48	-0.02	- -	- -
		12/18/2014	18.50	19.39	0.89	0.41	- -	- -
		3/18/2015	18.99	20.00	1.01	0.12	- -	- -
		6/8/2015	18.64	19.50	0.86	-0.15	- -	- -
		9/15/2015	19.28	19.64	0.36	-0.50	- -	- -
		12/16/2015	19.10	19.49	0.39	0.03	- -	- -
		6/6/2016	19.39	20.10	0.71	0.32	- -	- -
		9/25/2016	17.58	18.18	0.60	-0.11	- -	- -
		10/28/2016	18.42	19.09	0.67	0.07	- -	- -
		12/11/2016	18.75	19.90	1.15	0.48	- -	- -
		1/21/2017	18.95	20.08	1.13	-0.02	- -	- -
		2/19/2017	19.08	20.18	1.10	-0.03	- -	- -
		3/14/2017	19.10	20.15	1.05	-0.05	- -	- -
		4/20/2017	19.30	20.40	1.10	0.05	- -	- -
		6/6/2017	19.31	20.42	1.11	0.01	- -	- -
		9/19/2017	18.50	19.08	0.58	-0.53	- -	- -
		12/6/2017	19.15	19.70	0.55	-0.03	- -	- -
		1/24/2018	19.25	19.90	0.65	0.10	- -	- -
		2/21/2018	19.38	20.32	0.94	0.29	- -	- -
		3/15/2018	19.38	20.17	0.79	-0.15	- -	- -
		6/6/2018	19.46	20.28	0.82	0.03	- -	- -
		7/17/2018	19.45	20.76	1.31	0.49	- -	- -
		9/24/2018	18.83	20.25	1.42	0.11	- -	- -
		10/10/2018	19.06	20.24	1.18	-0.24	- -	- -
		12/11/2018	18.90	19.80	0.90	-0.28	- -	- -
		1/23/2019	19.82	21.12	1.30	0.40	- -	- -
		3/13/2019	19.40	20.05	0.65	-0.65	- -	- -
		6/26/2019	19.68	20.44	0.76	0.11	- -	- -
		9/21/2019	19.75	20.65	0.90	0.14	- -	- -
		12/3/2019	19.42	20.55	1.13	0.23	- -	- -
		3/12/2020	18.87	20.17	1.30	0.17	- -	- -
		5/20/2020	19.52	20.20	0.68	-0.62	- -	- -
		6/18/2020	19.75	20.74	0.99	0.31	- -	- -
		8/13/2020	20.05	20.78	0.73	-0.26	- -	- -
		9/15/2020	20.20	20.70	0.50	-0.23	- -	- -
		11/12/2020	20.35	20.95	0.60	0.10	- -	- -
		12/2/2020	20.44	21.54	1.10	0.50	- -	- -
		3/24/2021	20.42	21.60	1.18	0.08	- -	- -
		6/8/2021	20.40	22.18	1.78	0.60	- -	- -
		8/5/2021	19.68	20.46	0.78	-1.00	- -	- -
		9/21/2021	19.33	20.43	1.10	0.32	- -	- -
		12/2/2021	20.05	20.98	0.93	-0.17	- -	- -
		3/23/2022	20.08	20.35	0.27	-0.66	- -	- -
		6/1/2022	20.58	21.12	0.54	0.27	- -	- -
		9/28/2022	20.73	21.95	1.22	0.68	- -	- -
		12/7/2022	21.50	22.58	1.08	-0.14	- -	- -
		2/23/2023	20.63	22.26	1.63	-0.71	- -	29.01
		8/14/2023	21.12	22.53	1.41	1.04	- -	- -
		10/18/2023	20.00	20.59	0.59	-0.82	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-41	Unknown	7/26/2012	18.90	19.46	0.56	- -	- -	29.50
		12/20/2012	18.94	19.49	0.55	-0.01	- -	- -
		6/19/2013	19.03	19.73	0.70	0.15	- -	- -
		12/12/2013	18.09	18.63	0.54	-0.16	- -	- -
		6/26/2014	18.01	18.65	0.64	0.10	- -	- -
		12/18/2014	17.98	18.72	0.74	0.10	- -	- -
		3/18/2015	18.65	19.31	0.66	-0.08	- -	- -
		6/8/2015	18.32	18.70	0.38	-0.28	- -	- -
		9/15/2015	18.93	19.30	0.37	-0.01	- -	- -
		12/16/2015	18.77	18.94	0.17	-0.20	- -	- -
		6/6/2016	19.33	19.34	0.01	-0.16	- -	- -
		9/25/2016	- -	17.22	- -	-0.01	- -	- -
		10/28/2016	18.15	18.17	0.02	0.02	- -	- -
		12/11/2016	- -	18.53	- -	-0.02	- -	- -
		1/21/2017	- -	18.73	- -	0.00	- -	- -
		2/19/2017	18.87	18.92	0.05	0.05	- -	- -
		3/14/2017	18.90	18.95	0.05	0.00	- -	- -
		4/20/2017	19.00	19.15	0.15	0.10	- -	- -
		6/6/2017	19.02	19.40	0.38	0.23	- -	- -
		9/19/2017	18.20	18.55	0.35	-0.03	- -	- -
		12/6/2017	18.75	19.55	0.80	0.45	- -	- -
		1/24/2018	18.90	19.60	0.70	-0.10	- -	- -
		2/21/2018	19.00	19.62	0.62	-0.08	- -	- -
		3/15/2018	18.98	19.74	0.76	0.14	- -	- -
		6/6/2018	19.11	19.90	0.79	0.03	- -	- -
		7/17/2018	19.27	20.22	0.95	0.16	- -	- -
		9/24/2018	18.50	19.60	1.10	0.15	- -	- -
		10/10/2018	18.80	19.15	0.35	-0.75	- -	- -
		12/11/2018	19.12	20.35	1.23	0.88	- -	- -
		1/23/2019	18.92	19.60	0.68	-0.55	- -	- -
		3/13/2019	19.10	19.50	0.40	-0.28	- -	- -
		6/26/2019	19.40	20.03	0.63	0.23	- -	- -
		9/21/2019	20.45	21.19	0.74	0.11	- -	- -
		12/3/2019	19.11	19.90	0.79	0.05	- -	- -
		3/12/2020	18.60	19.18	0.58	-0.21	- -	- -
		5/20/2020	19.28	19.77	0.49	-0.09	- -	- -
		6/18/2020	19.06	19.45	0.39	-0.10	- -	- -
		8/13/2020	19.68	20.80	1.12	0.73	- -	- -
		9/15/2020	19.80	20.45	0.65	-0.47	- -	- -
		11/12/2020	19.93	20.60	0.67	0.02	- -	- -
		12/2/2020	20.08	21.10	1.02	0.35	- -	- -
		3/24/2021	20.05	20.95	0.90	-0.12	- -	- -
		6/8/2021	20.20	21.15	0.95	0.05	- -	- -
		8/5/2021	19.45	19.85	0.40	-0.55	- -	- -
		9/21/2021	18.95	19.25	0.30	-0.10	- -	- -
		12/2/2021	19.65	20.22	0.57	0.27	- -	- -
		3/23/2022	20.15	20.65	0.50	-0.07	- -	- -
		6/1/2022	20.42	20.73	0.31	-0.19	- -	- -
		9/28/2022	20.32	20.97	0.65	0.34	- -	- -
		12/7/2022	20.20	20.28	0.08	-0.57	- -	- -
		2/23/2023	20.39	21.21	0.82	0.74	- -	30.41
		8/14/2023	20.77	22.23	1.46	0.64	- -	- -
		10/18/2023	19.69	19.70	0.01	-1.45	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-42	Unknown	7/26/2012	19.52	20.43	0.91	- -	- -	29.66
		12/20/2012	19.55	20.36	0.81	-0.10	- -	- -
		6/19/2013	19.65	20.50	0.85	0.04	- -	- -
		12/12/2013	18.69	19.53	0.84	-0.01	- -	- -
		6/26/2014	18.66	19.52	0.86	0.02	- -	- -
		12/18/2014	18.65	19.05	0.40	-0.46	- -	- -
		3/18/2015	19.31	19.77	0.46	0.06	- -	- -
		6/8/2015	19.02	19.31	0.29	-0.17	- -	- -
		9/15/2015	19.58	19.88	0.30	0.01	- -	- -
		12/16/2015	19.38	19.70	0.32	0.02	- -	- -
		6/6/2016	19.84	19.94	0.10	-0.22	- -	- -
		9/25/2016	- -	17.80	- -	-0.10	- -	- -
		10/28/2016	- -	18.75	- -	0.00	- -	- -
		12/11/2016	- -	Dry	- -	0.00	- -	- -
		1/21/2017	- -	Dry	- -	0.00	- -	- -
		2/19/2017	- -	Dry	- -	0.00	- -	- -
		3/14/2017	- -	Dry	- -	0.00	- -	- -
		4/20/2017	19.70	19.80	0.10	0.10	- -	- -
		6/6/2017	19.73	19.80	0.07	-0.03	- -	- -
		9/19/2017	18.78	19.10	0.32	0.25	- -	- -
		12/6/2017	19.43	19.90	0.47	0.15	- -	- -
		1/24/2018	19.62	19.90	0.28	-0.19	- -	- -
		2/21/2018	19.70	19.98	0.28	0.00	- -	- -
		3/15/2018	19.95	20.07	0.12	-0.16	- -	- -
		6/6/2018	20.08	20.53	0.45	0.33	- -	- -
		7/17/2018	21.05	21.34	0.29	-0.16	- -	- -
		9/24/2018	20.18	20.95	0.77	0.48	- -	- -
		10/10/2018	19.35	20.28	0.93	0.16	- -	- -
		12/11/2018	19.12	20.35	1.23	0.30	- -	- -
		1/23/2019	19.45	20.60	1.15	-0.08	- -	- -
		3/13/2019	19.70	20.45	0.75	-0.40	- -	- -
		6/26/2019	20.00	20.45	0.45	-0.30	- -	- -
		9/21/2019	20.14	20.65	0.51	0.06	- -	- -
		12/3/2019	19.80	20.18	0.38	-0.13	- -	- -
		3/12/2020	18.28	18.58	0.30	-0.08	- -	- -
		5/20/2020	19.90	20.28	0.38	0.08	- -	- -
		6/18/2020	20.38	20.52	0.14	-0.24	- -	- -
		8/13/2020	20.32	20.83	0.51	0.37	- -	- -
		9/15/2020	20.48	20.88	0.40	-0.11	- -	- -
		11/12/2020	20.63	20.92	0.29	-0.11	- -	- -
		12/2/2020	20.75	21.30	0.55	0.26	- -	- -
		3/24/2021	21.17	21.34	0.17	-0.38	- -	- -
		6/8/2021	20.06	20.22	0.16	-0.01	- -	- -
		8/5/2021	20.08	20.25	0.17	0.01	- -	- -
		9/21/2021	- -	19.60	- -	-0.17	- -	- -
		12/2/2021	20.35	20.42	0.07	0.07	- -	- -
		3/23/2022	20.80	20.90	0.10	0.03	- -	- -
		6/1/2022	Trace	21.08	- -	-0.10	- -	- -
		9/28/2022	20.97	21.06	0.09	0.09	- -	- -
		12/7/2022	20.90	21.04	0.14	0.05	- -	- -
		2/23/2023	21.02	21.32	0.30	0.16	- -	30.20
		8/14/2023	21.55	21.77	0.22	-0.30	- -	- -
		10/18/2023	- -	20.25	- -	0.00	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-45	Unknown	7/26/2012	16.17	17.70	1.53	- -	- -	26.01
		12/20/2012	16.20	16.72	0.52	-1.01	- -	- -
		6/19/2013	16.31	17.00	0.69	0.17	- -	- -
		12/12/2013	15.20	15.48	0.28	-0.41	- -	- -
		6/26/2014	14.99	15.29	0.30	0.02	- -	- -
		12/18/2014	15.17	15.20	0.03	-0.27	- -	- -
		3/18/2015	- -	18.92	- -	-0.03	- -	- -
		6/8/2015	- -	15.53	- -	0.00	- -	- -
		9/15/2015	16.14	16.15	0.01	0.01	- -	- -
		12/16/2015	15.94	15.96	0.02	0.01	- -	- -
		6/6/2016	16.36	16.40	0.04	0.02	- -	- -
		9/25/2016	- -	14.18	- -	-0.04	- -	- -
		12/11/2016	- -	15.62	- -	0.00	- -	- -
		1/21/2017	- -	15.89	- -	0.00	- -	- -
		2/19/2017	- -	16.04	- -	0.00	- -	- -
		3/14/2017	- -	14.08	- -	0.00	- -	- -
		4/20/2017	- -	16.20	- -	0.00	- -	- -
		6/6/2017	- -	16.25	- -	0.00	- -	- -
		9/19/2017	- -	15,20	- -	0.00	- -	- -
		12/6/2017	- -	15.95	- -	0.00	- -	- -
		1/24/2018	- -	16.07	- -	0.00	- -	- -
		2/21/2018	- -	16.16	- -	0.00	- -	- -
		3/15/2018	- -	16.28	- -	0.00	- -	- -
		6/6/2018	- -	16.78	- -	0.00	- -	- -
		7/17/2018	Trace	15.86	- -	0.00	- -	- -
		9/24/2018	- -	15.77	- -	0.00	- -	- -
		10/10/2018	- -	15.97	- -	0.00	- -	- -
		12/11/2018	- -	15.70	- -	0.00	- -	- -
		3/13/2019	- -	16.40	- -	0.00	- -	- -
		6/26/2019	- -	16.32	- -	0.00	- -	- -
		9/21/2019	- -	16.85	- -	0.00	- -	- -
		12/3/2019	- -	16.45	- -	0.00	- -	- -
		3/12/2020	- -	15.88	- -	0.00	- -	- -
		5/20/2020	- -	16.55	- -	0.00	- -	- -
		6/18/2020	- -	16.68	- -	0.00	- -	- -
		9/15/2020	- -	17.12	- -	0.00	- -	- -
		12/2/2020	- -	16.34	- -	0.00	- -	- -
		3/24/2021	- -	16.03	- -	0.00	- -	- -
		6/8/2021	- -	16.55	- -	0.00	- -	- -
		8/5/2021	- -	16.33	- -	0.00	- -	- -
		9/21/2021	- -	17.22	- -	0.00	- -	- -
		12/2/2021	- -	17.99	- -	0.00	- -	- -
		3/23/2022	- -	18.21	- -	0.00	- -	- -
		6/1/2022	- -	18.54	- -	0.00	- -	- -
		9/28/2022	- -	17.38	- -	0.00	- -	- -
		12/7/2022	- -	17.76	- -	0.00	- -	- -
		2/23/2023	- -	17.58	- -	0.00	- -	26.76
		8/14/2023	18.17	18.36	0.19	0.19	- -	- -
		10/18/2023	16.66	16.79	0.13	-0.06	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-61	Unknown	7/26/2012	19.46	19.97	0.51	- -	- -	29.23
		12/20/2012	19.49	20.03	0.54	0.03	- -	- -
		6/19/2013	19.55	20.10	0.55	0.01	- -	- -
		12/12/2013	18.61	19.25	0.64	0.09	- -	- -
		6/26/2014	18.51	19.16	0.65	0.01	- -	- -
		12/18/2014	18.55	19.28	0.73	0.08	- -	- -
		3/18/2015	19.19	19.85	0.66	-0.07	- -	- -
		6/8/2015	18.88	19.00	0.12	-0.54	- -	- -
		9/15/2015	- -	19.48	- -	-0.12	- -	- -
		12/16/2015	- -	19.30	- -	0.00	- -	- -
		6/6/2016	19.80	19.81	0.01	0.01	- -	- -
		9/25/2016	- -	17.85	- -	-0.01	- -	- -
		10/28/2016	- -	17.82	- -	0.00	- -	- -
		12/11/2016	19.02	19.07	0.05	0.05	- -	- -
		1/21/2017	19.22	19.30	0.08	0.03	- -	- -
		2/19/2017	19.35	19.49	0.14	0.06	- -	- -
		3/14/2017	19.40	19.45	0.05	-0.09	- -	- -
		4/20/2017	19.50	19.60	0.10	0.05	- -	- -
		6/6/2017	19.52	19.58	0.06	-0.04	- -	- -
		9/19/2017	18.66	19.09	0.43	0.37	- -	- -
		12/6/2017	19.30	19.55	0.25	-0.18	- -	- -
		1/24/2018	17.48	17.68	0.20	-0.05	- -	- -
		2/21/2018	19.82	19.90	0.08	-0.12	- -	- -
		3/15/2018	19.55	20.04	0.49	0.41	- -	- -
		6/6/2018	19.69	19.83	0.14	-0.35	- -	- -
		7/17/2018	19.83	20.17	0.34	0.20	- -	- -
		9/24/2018	19.08	19.42	0.34	0.00	- -	- -
		10/10/2018	19.30	19.60	0.30	-0.04	- -	- -
		12/11/2018	19.11	19.35	0.24	-0.06	- -	- -
		3/13/2019	18.65	18.93	0.28	0.04	- -	- -
		6/26/2019	- -	19.90	- -	-0.28	- -	- -
		9/21/2019	19.98	20.25	0.27	0.27	- -	- -
		12/3/2019	19.80	19.85	0.05	-0.22	- -	- -
		3/12/2020	- -	19.25	- -	-0.05	- -	- -
		5/20/2020	- -	19.90	- -	0.00	- -	- -
		6/18/2020	20.05	20.18	0.13	0.13	- -	- -
		8/13/2020	- -	20.84	- -	-0.13	- -	- -
		9/15/2020	20.55	20.80	0.25	0.25	- -	- -
		11/12/2020	21.68	21.70	0.02	-0.23	- -	- -
		12/2/2020	19.76	19.92	0.16	0.14	- -	- -
		3/24/2021	- -	20.95	- -	-0.16	- -	- -
		6/8/2021	20.98	21.02	0.04	0.04	- -	- -
		8/5/2021	20.34	20.36	0.02	-0.02	- -	- -
		9/21/2021	- -	19.48	- -	-0.02	- -	- -
		12/2/2021	- -	19.79	- -	0.00	- -	- -
		3/23/2022	- -	21.05	- -	0.00	- -	- -
		6/1/2022	- -	21.44	- -	0.00	- -	- -
		9/28/2022	- -	21.12	- -	0.00	- -	- -
		12/7/2022	- -	20.92	- -	0.00	- -	- -
		2/23/2023	21.00	21.12	0.12	0.12	- -	30.22
		8/14/2023	21.51	21.76	0.25	0.13	- -	- -
		10/18/2023	20.21	20.35	0.14	-0.11	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-62	Unknown	7/26/2012	18.88	19.67	0.79	- -	- -	27.92
		12/20/2012	18.85	19.82	0.97	0.18	- -	- -
		6/19/2013	18.90	20.28	1.38	0.41	- -	- -
		12/12/2013	17.94	19.28	1.34	-0.04	- -	- -
		6/26/2014	17.83	19.13	1.30	-0.04	- -	- -
		12/18/2014	17.90	19.30	1.40	0.10	- -	- -
		3/18/2015	18.51	19.91	1.40	0.00	- -	- -
		6/8/2015	18.24	18.93	0.69	-0.71	- -	- -
		9/15/2015	- -	18.90	- -	-0.69	- -	- -
		12/16/2015	18.69	18.70	0.01	0.01	- -	- -
		6/6/2016	19.01	19.08	0.07	0.06	- -	- -
		9/25/2016	- -	17.40	- -	-0.07	- -	- -
		10/28/2016	- -	17.58	- -	0.00	- -	- -
		12/11/2016	- -	18.45	- -	0.00	- -	- -
		1/21/2017	- -	18.66	- -	0.00	- -	- -
		2/19/2017	- -	18.82	- -	0.00	- -	- -
		3/14/2017	- -	18.85	- -	0.00	- -	- -
		4/20/2017	18.95	19.00	0.05	0.05	- -	- -
		6/6/2017	18.97	19.00	0.03	-0.02	- -	- -
		9/19/2017	18.18	18.40	0.22	0.19	- -	- -
		12/6/2017	- -	18.80	- -	-0.22	- -	- -
		1/24/2018	18.95	19.00	0.05	0.05	- -	- -
		2/21/2018	19.04	19.10	0.06	0.01	- -	- -
		3/15/2018	19.06	19.11	0.05	-0.01	- -	- -
		6/6/2018	19.18	19.40	0.22	0.17	- -	- -
		7/17/2018	20.34	20.74	0.40	0.18	- -	- -
		9/24/2018	18.60	18.72	0.12	-0.28	- -	- -
		10/10/2018	18.80	18.83	0.03	-0.09	- -	- -
		12/11/2018	18.60	18.72	0.12	0.09	- -	- -
		3/13/2019	19.15	19.25	0.10	-0.02	- -	- -
		6/26/2019	- -	19.45	- -	-0.10	- -	- -
		9/21/2019	19.45	19.80	0.35	0.35	- -	- -
		12/3/2019	19.18	19.32	0.14	-0.21	- -	- -
		3/12/2020	18.60	18.70	0.10	-0.04	- -	- -
		5/20/2020	19.35	19.50	0.15	0.05	- -	- -
		6/18/2020	19.50	19.68	0.18	0.03	- -	- -
		8/13/2020	20.82	20.88	0.06	-0.12	- -	- -
		9/15/2020	19.95	20.05	0.10	0.04	- -	- -
		11/12/2020	21.00	21.05	0.05	-0.05	- -	- -
		12/2/2020	20.20	20.30	0.10	0.05	- -	- -
		3/24/2021	- -	20.25	- -	-0.10	- -	- -
		6/8/2021	20.88	21.22	0.34	0.34	- -	- -
		8/5/2021	- -	19.50	- -	-0.34	- -	- -
		9/21/2021	- -	18.99	- -	0.00	- -	- -
		12/2/2021	- -	19.78	- -	0.00	- -	- -
		3/23/2022	- -	21.38	- -	0.00	- -	- -
		6/1/2022	- -	21.77	- -	0.00	- -	- -
		9/28/2022	- -	20.58	- -	0.00	- -	- -
		12/7/2022	- -	21.44	- -	0.00	- -	- -
		2/23/2023	20.50	20.54	0.04	0.04	- -	28.04
		8/14/2023	- -	20.99	- -	-0.04	- -	28.30
		10/18/2023	- -	19.71	- -	0.00	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-63	Unknown	7/26/2012	19.71	20.05	0.34	- -	- -	28.45
		12/20/2012	- -	20.06	- -	-0.34	- -	- -
		6/19/2013	19.80	20.31	0.51	0.51	- -	- -
		12/12/2013	18.83	19.55	0.72	0.21	- -	- -
		6/26/2014	18.72	19.58	0.86	0.14	- -	- -
		12/18/2014	18.80	20.05	1.25	0.39	- -	- -
		3/18/2015	19.37	20.38	1.01	-0.24	- -	- -
		6/8/2015	19.08	19.36	0.28	-0.73	- -	- -
		9/15/2015	19.68	19.96	0.28	0.00	- -	- -
		12/16/2015	- -	19.55	- -	-0.28	- -	- -
		6/6/2016	19.81	20.27	0.46	0.46	- -	- -
		9/25/2016	17.98	18.38	0.40	-0.06	- -	- -
		10/28/2016	17.95	18.40	0.45	0.05	- -	- -
		12/11/2016	19.28	19.58	0.30	-0.15	- -	- -
		1/21/2017	19.45	20.00	0.55	0.25	- -	- -
		2/19/2017	19.57	20.18	0.61	0.06	- -	- -
		3/14/2017	19.60	20.06	0.46	-0.15	- -	- -
		4/20/2017	19.70	20.40	0.70	0.24	- -	- -
		6/6/2017	19.75	20.15	0.40	-0.30	- -	- -
		9/19/2017	18.88	19.14	0.26	-0.14	- -	- -
		12/6/2017	19.46	19.50	0.04	-0.22	- -	- -
		1/24/2018	19.65	20.43	0.78	0.74	- -	- -
		2/21/2018	19.75	20.40	0.65	-0.13	- -	- -
		3/15/2018	19.78	20.33	0.55	-0.10	- -	- -
		6/6/2018	19.92	20.29	0.37	-0.18	- -	- -
		7/17/2018	20.34	20.74	0.40	0.03	- -	- -
		9/24/2018	19.28	20.28	1.00	0.60	- -	- -
		10/10/2018	18.53	18.87	0.34	-0.66	- -	- -
		12/11/2018	19.32	20.10	0.78	0.44	- -	- -
		1/23/2019	19.67	20.40	0.73	-0.05	- -	- -
		3/13/2019	19.85	20.33	0.48	-0.25	- -	- -
		6/26/2019	20.10	20.60	0.50	0.02	- -	- -
		9/21/2019	20.25	20.50	0.25	-0.25	- -	- -
		12/3/2019	19.90	20.90	1.00	0.75	- -	- -
		3/12/2020	19.38	19.65	0.27	-0.73	- -	- -
		5/20/2020	20.02	20.33	0.31	0.04	- -	- -
		6/18/2020	20.22	20.62	0.40	0.09	- -	- -
		8/13/2020	20.48	20.93	0.45	0.05	- -	- -
		9/15/2020	20.65	20.75	0.10	-0.35	- -	- -
		11/12/2020	20.75	20.85	0.10	0.00	- -	- -
		12/2/2020	20.95	21.05	0.10	0.00	- -	- -
		3/24/2021	- -	21.00	- -	-0.10	- -	- -
		6/8/2021	21.10	21.15	0.05	0.05	- -	- -
		8/5/2021	20.09	20.55	0.46	0.41	- -	- -
		9/21/2021	19.63	19.65	0.02	-0.44	- -	- -
		12/2/2021	20.42	20.43	0.01	-0.01	- -	- -
		3/23/2022	- -	20.98	- -	-0.01	- -	- -
		6/1/2022	Trace	21,22	- -	0.00	- -	- -
		9/28/2022	21.18	21.22	0.04	0.04	- -	- -
		12/7/2022	21.00	21.14	0.14	0.10	- -	- -
		2/23/2023	21.23	21.33	0.10	-0.04	- -	29.29
		8/14/2023	21.68	22.08	0.40	0.30	- -	- -
		10/18/2023	- -	20.42	- -	-0.40	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-64	Unknown	7/26/2012	20.00	21.64	1.64	- -	- -	28.77
		12/20/2012	19.93	22.09	2.16	0.52	- -	- -
		6/19/2013	20.07	22.40	2.33	0.17	- -	- -
		12/12/2013	19.01	21.67	2.66	0.33	- -	- -
		6/26/2014	18.91	21.72	2.81	0.15	- -	- -
		12/18/2014	19.18	20.28	1.10	-1.71	- -	- -
		3/18/2015	19.85	21.02	1.17	0.07	- -	- -
		6/8/2015	19.52	20.40	0.88	-0.29	- -	- -
		9/15/2015	20.20	20.57	0.37	-0.51	- -	- -
		12/16/2015	19.98	20.50	0.52	0.15	- -	- -
		6/6/2016	20.18	21.76	1.58	1.06	- -	- -
		9/25/2016	18.42	19.58	1.16	-0.42	- -	- -
		12/11/2016	19.72	20.38	0.66	-0.50	- -	- -
		1/21/2017	19.94	20.60	0.66	0.00	- -	- -
		2/19/2017	20.08	20.64	0.56	-0.10	- -	- -
		3/14/2017	20.15	20.60	0.45	-0.11	- -	- -
		4/20/2017	20.20	21.00	0.80	0.35	- -	- -
		6/6/2017	20.34	20.90	0.56	-0.24	- -	- -
		9/19/2017	- -	19.48	- -	-0.56	- -	- -
		12/6/2017	20.00	20.78	0.78	0.78	- -	- -
		1/24/2018	20.10	21.10	1.00	0.22	- -	- -
		2/21/2018	20.25	21.05	0.80	-0.20	- -	- -
		3/15/2018	20.24	21.03	0.79	-0.01	- -	- -
		6/6/2018	20.45	20.90	0.45	-0.34	- -	- -
		7/17/2018	20.54	21.92	1.38	0.93	- -	- -
		9/24/2018	19.74	21.05	1.31	-0.07	- -	- -
		10/10/2018	20.20	20.80	0.60	-0.71	- -	- -
		12/11/2018	19.80	20.70	0.90	0.30	- -	- -
		1/23/2019	20.05	21.25	1.20	0.30	- -	- -
		3/13/2019	20.25	21.50	1.25	0.05	- -	- -
		6/26/2019	20.52	21.80	1.28	0.03	- -	- -
		9/21/2019	20.70	21.60	0.90	-0.38	- -	- -
		12/3/2019	20.32	21.56	1.24	0.34	- -	- -
		3/12/2020	19.83	20.75	0.92	-0.32	- -	- -
		5/20/2020	20.47	21.47	1.00	0.08	- -	- -
		6/18/2020	20.64	21.74	1.10	0.10	- -	- -
		8/13/2020	20.92	21.90	0.98	-0.12	- -	- -
		9/15/2020	21.15	22.08	0.93	-0.05	- -	- -
		11/12/2020	21.25	21.90	0.65	-0.28	- -	- -
		12/2/2020	21.45	22.65	1.20	0.55	- -	- -
		3/24/2021	21.45	22.20	0.75	-0.45	- -	- -
		6/8/2021	21.70	22.40	0.70	-0.05	- -	- -
		8/5/2021	20.65	21.70	1.05	0.35	- -	- -
		9/21/2021	20.18	20.43	0.25	-0.80	- -	- -
		12/2/2021	20.98	21.44	0.46	0.21	- -	- -
		3/23/2022	21.24	21.74	0.50	0.04	- -	- -
		6/1/2022	21.68	21.98	0.30	-0.20	- -	- -
		9/28/2022	21.63	22.45	0.82	0.52	- -	- -
		12/7/2022	21.58	22.15	0.57	-0.25	- -	- -
		2/23/2023	21.62	22.84	1.22	0.65	- -	30.19
		8/14/2023	22.06	23.59	1.53	0.31	- -	- -
		10/18/2023	20.97	21.32	0.35	-1.18	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-66	Unknown	7/26/2012	20.84	21.38	0.54	- -	- -	30.37
		12/20/2012	20.85	21.37	0.52	-0.02	- -	- -
		6/19/2013	20.92	21.53	0.61	0.09	- -	- -
		12/12/2013	19.68	22.44	2.76	2.15	- -	- -
		6/26/2014	19.56	22.58	3.02	0.26	- -	- -
		12/18/2014	19.70	21.85	2.15	-0.87	- -	- -
		3/18/2015	20.34	22.57	2.23	0.08	- -	- -
		6/8/2015	20.01	21.97	1.96	-0.27	- -	- -
		9/15/2015	20.82	21.32	0.50	-1.46	- -	- -
		12/16/2015	20.53	21.83	1.30	0.80	- -	- -
		6/6/2016	21.01	21.36	0.35	-0.95	- -	- -
		9/25/2016	19.05	19.30	0.25	-0.10	- -	- -
		10/28/2016	19.91	21.20	1.29	1.04	- -	- -
		12/11/2016	20.24	21.92	1.68	0.39	- -	- -
		1/21/2017	20.60	21.40	0.80	-0.88	- -	- -
		2/19/2017	20.75	20.99	0.24	-0.56	- -	- -
		3/14/2017	20.84	21.15	0.31	0.07	- -	- -
		4/20/2017	20.95	21.25	0.30	-0.01	- -	- -
		6/6/2017	20.84	21.32	0.48	0.18	- -	- -
		9/19/2017	20.10	20.32	0.22	-0.26	- -	- -
		12/6/2017	20.55	22.30	1.75	1.53	- -	- -
		1/24/2018	20.82	21.62	0.80	-0.95	- -	- -
		2/21/2018	20.95	21.35	0.40	-0.40	- -	- -
		3/15/2018	20.98	21.27	0.29	-0.11	- -	- -
		6/6/2018	21.13	21.73	0.60	0.31	- -	- -
		7/17/2018	21.34	21.68	0.34	-0.26	- -	- -
		9/24/2018	20.55	20.66	0.11	-0.23	- -	- -
		10/10/2018	20.79	20.86	0.07	-0.04	- -	- -
		12/11/2018	20.40	21.80	1.40	1.33	- -	- -
		1/23/2019	20.80	21.35	0.55	-0.85	- -	- -
		3/13/2019	21.00	21.35	0.35	-0.20	- -	- -
		6/26/2019	21.33	21.83	0.50	0.15	- -	- -
		9/21/2019	21.48	21.85	0.37	-0.13	- -	- -
		12/3/2019	21.10	21.55	0.45	0.08	- -	- -
		3/12/2020	20.60	21.22	0.62	0.17	- -	- -
		5/20/2020	21.21	21.68	0.47	-0.15	- -	- -
		6/18/2020	21.42	22.07	0.65	0.18	- -	- -
		8/13/2020	20.62	21.82	1.20	0.55	- -	- -
		9/15/2020	21.70	22.80	1.10	-0.10	- -	- -
		11/12/2020	21.92	22.81	0.89	-0.21	- -	- -
		12/2/2020	21.98	23.66	1.68	0.79	- -	- -
		3/24/2021	22.00	23.32	1.32	-0.36	- -	- -
		6/8/2021	21.98	22.98	1.00	-0.32	- -	- -
		8/5/2021	21.38	22.10	0.72	-0.28	- -	- -
		9/21/2021	- -	21.02	- -	-0.72	- -	- -
		12/2/2021	21.63	22.07	0.44	0.44	- -	- -
		3/23/2022	21.03	22.20	1.17	0.73	- -	- -
		6/1/2022	22.38	22.93	0.55	-0.62	- -	- -
		9/28/2022	21.83	22.19	0.36	-0.19	- -	- -
		12/7/2022	22.10	23.40	1.30	0.94	- -	- -
		2/23/2023	22.22	24.00	1.78	0.48	- -	30.70
		8/14/2023	22.70	24.63	1.93	0.15	- -	- -
		10/18/2023	21.63	22.02	0.39	-1.54	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-67	Unknown	7/26/2012	20.11	20.85	0.74	- -	- -	26.50
		12/20/2012	20.07	21.04	0.97	0.23	- -	- -
		6/19/2013	20.18	21.37	1.19	0.22	- -	- -
		12/12/2013	19.21	20.08	0.87	-0.32	- -	- -
		6/26/2014	19.12	20.23	1.11	0.24	- -	- -
		12/18/2014	19.27	19.97	0.70	-0.41	- -	- -
		3/18/2015	19.90	20.43	0.53	-0.17	- -	- -
		6/8/2015	19.57	19.86	0.29	-0.24	- -	- -
		9/15/2015	20.17	20.30	0.13	-0.16	- -	- -
		12/16/2015	20.01	20.07	0.06	-0.07	- -	- -
		6/6/2016	20.39	20.40	0.01	-0.05	- -	- -
		9/25/2016	- -	21.59	- -	-0.01	- -	- -
		10/28/2016	- -	21.57	- -	0.00	- -	- -
		12/11/2016	19.78	20.08	0.30	0.30	- -	- -
		1/21/2017	19.95	20.23	0.28	-0.02	- -	- -
		2/19/2017	20.07	20.27	0.20	-0.08	- -	- -
		3/14/2017	20.12	20.30	0.18	-0.02	- -	- -
		4/20/2017	20.25	20.40	0.15	-0.03	- -	- -
		6/6/2017	20.28	20.30	0.02	-0.13	- -	- -
		9/19/2017	19.40	19.52	0.12	0.10	- -	- -
		12/6/2017	20.02	20.43	0.41	0.29	- -	- -
		1/24/2018	20.20	20.40	0.20	-0.21	- -	- -
		2/21/2018	- -	20.54	- -	-0.20	- -	- -
		3/15/2018	22.30	22.32	0.02	0.02	- -	- -
		6/6/2018	- -	Dry	- -	-0.02	- -	- -
		7/17/2018	- -	Dry	- -	0.00	- -	- -
		9/24/2018	- -	Dry	- -	0.00	- -	- -
		10/10/2018	- -	Dry	- -	0.00	- -	- -
		12/11/2018	19.85	19.90	0.05	0.05	- -	- -
		3/13/2019	- -	Dry	- -	-0.05	- -	- -
		6/26/2019	20.60	20.88	0.28	0.28	- -	- -
		9/21/2019	20.62	21.24	0.62	0.34	- -	- -
		12/3/2019	20.40	20.85	0.45	-0.17	- -	- -
		3/12/2020	19.83	20.04	0.21	-0.24	- -	- -
		5/20/2020	20.58	21.00	0.42	0.21	- -	- -
		6/18/2020	20.67	21.50	0.83	0.41	- -	- -
		8/13/2020	20.83	22.20	1.37	0.54	- -	- -
		9/15/2020	20.98	22.94	1.96	0.59	- -	- -
		11/12/2020	21.15	22.45	1.30	-0.66	- -	- -
		12/2/2020	21.20	22.95	1.75	0.45	- -	- -
		3/24/2021	21.34	22.50	1.16	-0.59	- -	- -
		6/8/2021	21.38	22.80	1.42	0.26	- -	- -
		8/5/2021	20.80	20.92	0.12	-1.30	- -	- -
		9/21/2021	20.22	20.24	0.02	-0.10	- -	- -
		12/2/2021	20.95	21.20	0.25	0.23	- -	- -
		3/23/2022	21.38	22.04	0.66	0.41	- -	- -
		6/1/2022	21.64	22.07	0.43	-0.23	- -	- -
		9/28/2022	21.60	22.40	0.80	0.37	- -	- -
		12/7/2022	21.48	22.20	0.72	-0.08	- -	- -
		2/23/2023	21.62	22.68	1.06	0.34	- -	26.80
		8/14/2023	22.18	22.75	0.57	-0.49	- -	- -
		10/18/2023	20.56	21.02	0.46	-0.11	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-80	Unknown	7/26/2012	18.53	19.27	- -	- -	- -	27.09
		12/20/2012	18.55	19.33	0.78	0.04	- -	- -
		6/19/2013	18.60	19.63	1.03	0.25	- -	- -
		12/12/2013	17.68	18.65	0.97	-0.06	- -	- -
		6/26/2014	17.59	18.60	1.01	0.04	- -	- -
		12/18/2014	17.45	18.62	1.17	0.16	- -	- -
		3/18/2015	18.29	19.02	0.73	-0.44	- -	- -
		6/8/2015	17.95	18.45	0.50	-0.23	- -	- -
		9/15/2015	18.53	19.00	0.47	-0.03	- -	- -
		12/16/2015	18.38	18.66	0.28	-0.19	- -	- -
		6/6/2016	18.81	18.82	0.01	-0.27	- -	- -
		9/25/2016	- -	16.97	- -	-0.01	- -	- -
		10/28/2016	17.95	17.96	0.01	0.01	- -	- -
		12/11/2016	- -	18.18	- -	-0.01	- -	- -
		1/21/2017	- -	18.38	- -	0.00	- -	- -
		2/19/2017	- -	18.58	- -	0.00	- -	- -
		3/14/2017	18.54	18.62	0.08	0.08	- -	- -
		4/20/2017	18.65	18.80	0.15	0.07	- -	- -
		6/6/2017	19.02	19.40	0.38	0.23	- -	- -
		9/19/2017	17.70	17.88	0.18	-0.20	- -	- -
		12/6/2017	18.40	18.70	0.30	0.12	- -	- -
		1/24/2018	18.45	18.88	0.43	0.13	- -	- -
		2/21/2018	18.65	18.95	0.30	-0.13	- -	- -
		3/15/2018	18.55	18.96	0.41	0.11	- -	- -
		6/6/2018	18.70	19.04	0.34	-0.07	- -	- -
		7/17/2018	18.85	19.33	0.48	0.14	- -	- -
		9/24/2018	18.30	18.55	0.25	-0.23	- -	- -
		10/10/2018	18.30	18.70	0.40	0.15	- -	- -
		12/11/2018	18.10	18.55	0.45	0.05	- -	- -
		3/13/2019	18.70	19.00	0.30	-0.15	- -	- -
		6/26/2019	18.90	19.00	0.10	-0.20	- -	- -
		9/21/2019	19.00	19.10	0.10	0.00	- -	- -
		12/3/2019	- -	18.88	- -	-0.10	- -	- -
		3/12/2020	- -	18.25	- -	0.00	- -	- -
		5/20/2020	- -	18.88	- -	0.00	- -	- -
		6/18/2020	- -	19.05	- -	0.00	- -	- -
		9/15/2020	- -	19.50	- -	0.00	- -	- -
		12/2/2020	- -	18.97	- -	0.00	- -	- -
		3/24/2021	- -	19.80	- -	0.00	- -	- -
		6/8/2021	- -	20.00	- -	0.00	- -	- -
		8/5/2021	- -	20.01	- -	0.00	- -	- -
		9/21/2021	- -	18.62	- -	0.00	- -	- -
		12/2/2021	- -	19.02	- -	0.00	- -	- -
		3/23/2022	- -	19.80	- -	0.00	- -	- -
		6/1/2022	- -	20.12	- -	0.00	- -	- -
		9/28/2022	- -	18.86	- -	0.00	- -	- -
		12/7/2022	- -	19.02	- -	0.00	- -	- -
		2/23/2023	19.91	20.00	0.09	0.90	- -	27.73
		8/14/2023	20.41	20.61	0.20	-0.70	- -	- -
		10/18/2023	- -	19.10	- -	-0.20	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-88	Unknown	7/26/2012	24.56	24.93	0.37	- -	- -	31.49
		12/20/2012	24.56	24.90	0.34	-0.03	- -	- -
		6/19/2013	24.68	25.18	0.50	0.16	- -	- -
		12/12/2013	23.77	24.29	0.52	0.02	- -	- -
		6/26/2014	23.57	24.02	0.45	-0.07	- -	- -
		12/18/2014	23.58	23.98	0.40	-0.05	- -	- -
		3/18/2015	24.29	24.62	0.33	-0.07	- -	- -
		6/9/2015	24.04	24.29	0.25	-0.08	- -	- -
		9/15/2015	24.50	24.60	0.10	-0.15	- -	- -
		12/16/2015	- -	24.38	- -	-0.10	- -	- -
		6/6/2016	- -	24.94	- -	0.00	- -	- -
		9/25/2016	- -	22.75	- -	0.00	- -	- -
		10/28/2016	- -	23.74	- -	0.00	- -	- -
		12/11/2016	- -	Dry	- -	0.00	- -	- -
		1/21/2017	- -	Dry	- -	0.00	- -	- -
		2/19/2017	- -	24.45	- -	0.00	- -	- -
		3/14/2017	- -	25.15	- -	0.00	- -	- -
		4/20/2017	- -	Dry	- -	0.00	- -	- -
		6/6/2017	- -	24.68	- -	0.00	- -	- -
		9/19/2017	- -	23.88	- -	0.00	- -	- -
		12/6/2017	- -	Dry	- -	0.00	- -	- -
		1/24/2018	- -	Dry	- -	0.00	- -	- -
		2/21/2018	- -	Dry	- -	0.00	- -	- -
		3/15/2018	- -	Dry	- -	0.00	- -	- -
		6/6/2018	- -	Dry	- -	0.00	- -	- -
		7/17/2018	- -	Dry	- -	0.00	- -	- -
		9/24/2018	- -	Dry	- -	0.00	- -	- -
		10/10/2018	- -	Dry	- -	0.00	- -	- -
		12/11/2018	- -	Dry	- -	0.00	- -	- -
		3/13/2019	- -	Dry	- -	0.00	- -	- -
		6/26/2019	- -	Dry	- -	0.00	- -	- -
		9/21/2019	- -	Dry	- -	0.00	- -	- -
		12/3/2019	- -	Dry	- -	0.00	- -	- -
		3/12/2020	- -	Dry	- -	0.00	- -	- -
		5/20/2020	- -	Dry	- -	0.00	- -	- -
		6/18/2020	- -	Dry	- -	0.00	- -	- -
		9/15/2020	- -	Dry	- -	0.00	- -	- -
		12/2/2020	- -	Dry	- -	0.00	- -	- -
		3/24/2021	- -	Dry	- -	0.00	- -	- -
		6/8/2021	- -	Dry	- -	0.00	- -	- -
		8/5/2021	- -	Dry	- -	0.00	- -	- -
		9/21/2021	- -	Dry	- -	0.00	- -	- -
		12/2/2021	- -	Dry	- -	0.00	- -	- -
		3/23/2022	- -	Dry	- -	0.00	- -	- -
		6/1/2022	- -	Dry	- -	0.00	- -	- -
		9/28/2022	- -	Dry	- -	0.00	- -	- -
		12/7/2022	- -	Dry	- -	0.00	- -	- -
		2/23/2023	- -	Dry	- -	0.00	- -	26.11
		8/14/2023	26.60	--[1]	0.05	0.00	- -	26.65
		10/18/2023	25.46	25.50	0.04	0.04	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-91	Unknown	7/26/2012	24.01	25.01	1.00	- -	- -	30.28
		12/20/2012	23.92	25.50	1.58	0.58	- -	- -
		6/19/2013	23.01	26.01	3.00	1.42	- -	- -
		12/12/2013	23.11	25.19	2.08	-0.92	- -	- -
		6/26/2014	22.94	24.81	1.87	-0.21	- -	- -
		12/18/2014	22.97	24.45	1.48	-0.39	- -	- -
		3/18/2015	23.68	25.08	1.40	-0.08	- -	- -
		6/9/2015	23.45	24.44	0.99	-0.41	- -	- -
		9/15/2015	24.00	24.40	0.40	-0.59	- -	- -
		12/16/2015	23.87	24.26	0.39	-0.01	- -	- -
		6/6/2016	24.22	24.69	0.47	0.08	- -	- -
		9/25/2016	- -	22.47	- -	-0.47	- -	- -
		10/28/2016	23.28	23.40	0.12	0.12	- -	- -
		12/11/2016	23.68	23.92	0.24	0.12	- -	- -
		1/21/2017	21.90	22.04	0.14	-0.10	- -	- -
		2/19/2017	23.99	24.20	0.21	0.07	- -	- -
		3/14/2017	24.04	24.18	0.14	-0.07	- -	- -
		4/20/2017	24.15	24.35	0.20	0.06	- -	- -
		6/6/2017	24.25	24.35	0.10	-0.10	- -	- -
		9/19/2017	23.30	23.40	0.10	0.00	- -	- -
		12/6/2017	23.98	24.40	0.42	0.32	- -	- -
		1/24/2018	24.10	24.35	0.25	-0.17	- -	- -
		2/21/2018	20.20	20.32	0.12	-0.13	- -	- -
		3/15/2018	- -	22.95	- -	-0.12	- -	- -
		6/6/2018	- -	24.38	- -	0.00	- -	- -
		7/17/2018	24.52	24.70	0.18	0.18	- -	- -
		9/24/2018	23.50	23.87	0.37	0.19	- -	- -
		10/10/2018	23.98	24.25	0.27	-0.10	- -	- -
		12/11/2018	23.85	23.98	0.13	-0.14	- -	- -
		3/13/2019	24.30	24.38	0.08	-0.05	- -	- -
		6/26/2019	24.55	24.60	0.05	-0.03	- -	- -
		9/21/2019	22.64	22.74	0.10	0.05	- -	- -
		12/3/2019	- -	24.40	- -	-0.10	- -	- -
		3/12/2020	- -	23.91	- -	0.00	- -	- -
		5/20/2020	- -	24.45	- -	0.00	- -	- -
		6/18/2020	- -	24.68	- -	0.00	- -	- -
		9/15/2020	- -	25.03	- -	0.00	- -	- -
		12/2/2020	- -	24.35	- -	0.00	- -	- -
		3/24/2021	- -	25.32	- -	0.00	- -	- -
		6/8/2021	- -	23.48	- -	0.00	- -	- -
		8/5/2021	- -	Dry	- -	0.00	- -	- -
		9/21/2021	- -	24.22	- -	0.00	- -	- -
		12/2/2021	- -	Dry	- -	0.00	- -	- -
		3/23/2022	- -	Dry	- -	0.00	- -	- -
		6/1/2022	- -	Dry	- -	0.00	- -	- -
		9/28/2022	- -	Dry	- -	0.00	- -	- -
		12/7/2022		Dry	- -	0.00	- -	- -
		2/23/2023	- -	Dry	- -	0.00	- -	25.40
		8/14/2023	- -	Dry	- -	0.00	- -	25.70
		10/18/2023	- -	24.75	- -	0.00	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-103	Unknown	7/26/2012	20.48	20.72	0.24	- -	- -	25.60
		12/20/2012	20.50	20.98	0.48	0.24	- -	- -
		6/19/2013	20.38	22.35	1.97	1.49	- -	- -
		12/12/2013	19.03	20.08	1.05	-0.92	- -	- -
		6/26/2014	18.97	20.94	1.97	0.92	- -	- -
		12/18/2014	19.18	20.04	0.86	-1.11	- -	- -
		3/18/2015	19.82	20.44	0.62	-0.24	- -	- -
		6/8/2015	19.43	20.39	0.96	0.34	- -	- -
		9/15/2015	20.08	20.12	0.04	-0.92	- -	- -
		12/16/2015	19.85	20.33	0.48	0.44	- -	- -
		6/6/2016	20.29	20.44	0.15	-0.33	- -	- -
		9/25/2016	- -	18.32	- -	-0.15	- -	- -
		10/28/2016	19.23	19.55	0.32	0.32	- -	- -
		12/11/2016	- -	NM	- -	-0.32	- -	- -
		1/21/2017	19.80	20.08	0.28	0.28	- -	- -
		2/19/2017	19.95	20.18	0.23	-0.05	- -	- -
		3/14/2017	- -	20.04	- -	-0.23	- -	- -
		4/20/2017	20.15	20.35	0.20	0.20	- -	- -
		6/6/2017	20.14	20.21	0.07	-0.13	- -	- -
		9/19/2017	19.25	19.35	0.10	0.03	- -	- -
		12/6/2017	19.85	20.58	0.73	0.63	- -	- -
		1/24/2018	20.02	20.78	0.76	0.03	- -	- -
		2/21/2018	20.10	20.61	0.51	-0.25	- -	- -
		3/15/2018	20.35	20.50	0.15	-0.36	- -	- -
		6/6/2018	20.35	20.85	0.50	0.35	- -	- -
		7/17/2018	21.30	22.38	1.08	0.58	- -	- -
		9/24/2018	19.70	20.68	0.98	-0.10	- -	- -
		10/10/2018	19.92	20.22	0.30	-0.68	- -	- -
		12/11/2018	19.73	20.30	0.57	0.27	- -	- -
		1/23/2019	20.03	20.73	0.70	0.13	- -	- -
		3/13/2019	20.25	20.75	0.50	-0.20	- -	- -
		6/26/2019	20.40	21.32	0.92	0.42	- -	- -
		9/21/2019	20.46	22.04	1.58	0.66	- -	- -
		12/3/2019	20.30	20.75	0.45	-1.13	- -	- -
		3/12/2020	19.28	19.78	0.50	0.05	- -	- -
		5/20/2020	20.40	20.62	0.22	-0.28	- -	- -
		6/18/2020	20.50	21.32	0.82	0.60	- -	- -
		8/13/2020	20.61	21.60	0.99	0.17	- -	- -
		9/15/2020	20.72	22.68	1.96	0.97	- -	- -
		11/12/2020	20.87	22.51	1.64	-0.32	- -	- -
		12/2/2020	20.94	22.20	1.26	-0.38	- -	- -
		3/24/2021	21.25	21.80	0.55	-0.71	- -	- -
		6/8/2021	21.38	21.62	0.24	-0.31	- -	- -
		8/5/2021	20.48	21.08	0.60	0.36	- -	- -
		9/21/2021	20.18	20.22	0.04	-0.56	- -	- -
		12/2/2021	20.82	21.02	0.20	0.16	- -	- -
		3/23/2022	21.19	21.85	0.66	0.46	- -	- -
		6/1/2022	21.38	22.10	0.72	0.06	- -	- -
		9/28/2022	21.19	21.87	0.68	-0.04	- -	- -
		12/7/2022	21.20	21.63	0.43	-0.25	- -	- -
		2/23/2023	21.23	23.24	2.01	1.58	- -	26.85
		8/14/2023	21.73	23.77	2.04	0.03	- -	- -
		10/18/2023	20.62	21.59	0.97	-1.07	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-104	Unknown	7/26/2012	20.23	21.64	1.41	- -	- -	24.74
		12/20/2012	20.12	22.45	2.33	0.92	- -	- -
		6/19/2013	20.21	22.61	2.40	0.07	- -	- -
		12/12/2013	19.46	20.08	0.62	-1.78	- -	- -
		6/26/2014	19.38	20.99	1.61	0.99	- -	- -
		12/18/2014	19.45	19.89	0.44	-1.17	- -	- -
		3/18/2015	20.21	20.38	0.17	-0.27	- -	- -
		6/8/2015	19.86	20.07	0.21	0.04	- -	- -
		9/15/2015	20.37	20.89	0.52	0.31	- -	- -
		12/16/2015	20.25	20.50	0.25	-0.27	- -	- -
		6/6/2016	20.23	22.29	2.06	1.81	- -	- -
		9/25/2016	17.70	17.81	0.11	-1.95	- -	- -
		10/28/2016	19.65	19.71	0.06	-0.05	- -	- -
		12/11/2016	19.98	20.03	0.05	-0.01	- -	- -
		1/21/2017	20.20	20.28	0.08	0.03	- -	- -
		2/19/2017	20.32	20.42	0.10	0.02	- -	- -
		3/14/2017	20.40	20.55	0.15	0.05	- -	- -
		4/20/2017	20.40	21.40	1.00	0.85	- -	- -
		6/6/2017	20.56	20.97	0.41	-0.59	- -	- -
		9/19/2017	19.68	19.73	0.05	-0.36	- -	- -
		12/6/2017	20.38	20.45	0.07	0.02	- -	- -
		1/24/2018	20.48	20.74	0.26	0.19	- -	- -
		2/21/2018	20.60	20.78	0.18	-0.08	- -	- -
		3/15/2018	20.48	21.04	0.56	0.38	- -	- -
		6/6/2018	20.58	21.08	0.50	-0.06	- -	- -
		7/17/2018	20.78	22.24	1.46	0.96	- -	- -
		9/24/2018	20.05	20.45	0.40	-1.06	- -	- -
		10/10/2018	20.30	20.70	0.40	0.00	- -	- -
		12/11/2018	20.12	20.50	0.38	-0.02	- -	- -
		3/13/2019	21.40	23.15	1.75	1.37	- -	- -
		6/26/2019	20.78	21.12	0.34	-1.41	- -	- -
		9/21/2019	21.05	21.18	0.13	-0.21	- -	- -
		12/3/2019	20.65	21.06	0.41	0.28	- -	- -
		3/12/2020	20.22	20.65	0.43	0.02	- -	- -
		5/20/2020	20.78	21.24	0.46	0.03	- -	- -
		6/18/2020	20.98	21.45	0.47	0.01	- -	- -
		8/13/2020	21.20	21.84	0.64	0.17	- -	- -
		9/15/2020	21.35	21.68	0.33	-0.31	- -	- -
		11/12/2020	21.53	21.68	0.15	-0.18	- -	- -
		12/2/2020	21.70	22.02	0.32	0.17	- -	- -
		3/24/2021	21.72	22.05	0.33	0.01	- -	- -
		6/8/2021	21.80	22.00	0.20	-0.13	- -	- -
		8/5/2021	20.95	21.43	0.48	0.28	- -	- -
		9/21/2021	- -	20.58	- -	-0.48	- -	- -
		12/2/2021	21.25	21.30	0.05	0.05	- -	- -
		3/23/2022	21.69	21.75	0.06	0.01	- -	- -
		6/1/2022	Trace	21.94	- -	-0.06	- -	- -
		9/28/2022	21.86	21.87	0.01	0.01	- -	- -
		12/7/2022	21.75	22.11	0.36	0.35	- -	- -
		2/23/2023	21.88	22.37	0.49	0.13	- -	26.26
		8/14/2023	22.33	23.04	0.71	0.32	- -	- -
		10/18/2023	- -	21.50	- -	-0.81	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-107	Unknown	7/26/2012	21.21	21.50	0.29	- -	- -	26.77
		12/20/2012	21.23	21.81	0.58	0.29	- -	- -
		6/19/2013	20.28	21.35	1.07	0.49	- -	- -
		12/12/2013	20.45	20.82	0.37	-0.70	- -	- -
		6/26/2014	20.28	21.23	0.95	0.58	- -	- -
		12/18/2014	20.21	20.31	0.10	-0.85	- -	- -
		3/18/2015	21.43	22.05	0.62	0.52	- -	- -
		6/8/2015	20.67	20.95	0.28	-0.34	- -	- -
		9/15/2015	21.10	22.25	1.15	0.87	- -	- -
		12/16/2015	20.89	22.18	1.29	0.14	- -	- -
		6/6/2016	21.28	22.34	1.06	-0.23	- -	- -
		9/25/2016	19.40	20.30	0.90	-0.16	- -	- -
		10/28/2016	20.40	20.44	0.04	-0.86	- -	- -
		12/11/2016	20.84	20.95	0.11	0.07	- -	- -
		1/21/2017	21.02	21.27	0.25	0.14	- -	- -
		2/19/2017	21.14	21.37	0.23	-0.02	- -	- -
		3/14/2017	21.15	21.62	0.47	0.24	- -	- -
		4/20/2017	21.22	21.98	0.76	0.29	- -	- -
		6/6/2017	21.30	21.70	0.40	-0.36	- -	- -
		9/19/2017	- -	20.45	- -	-0.40	- -	- -
		12/6/2017	- -	21.10	- -	0.00	- -	- -
		1/24/2018	21.25	21.78	0.53	0.53	- -	- -
		2/21/2018	21.30	21.77	0.47	-0.06	- -	- -
		3/15/2018	21.34	21.68	0.34	-0.13	- -	- -
		6/6/2018	21.51	21.55	0.04	-0.30	- -	- -
		7/17/2018	21.70	21.92	0.22	0.18	- -	- -
		9/24/2018	20.93	20.99	0.06	-0.16	- -	- -
		10/10/2018	21.15	21.17	0.02	-0.04	- -	- -
		12/11/2018	20.98	20.99	0.01	-0.01	- -	- -
		3/13/2019	21.40	21.95	0.55	0.54	- -	- -
		6/26/2019	- -	21.70	- -	-0.55	- -	- -
		9/21/2019	21.80	22.00	0.20	0.20	- -	- -
		12/3/2019	21.50	21.85	0.35	0.15	- -	- -
		3/12/2020	- -	21.38	- -	-0.35	- -	- -
		5/20/2020	22.20	22.28	0.08	0.08	- -	- -
		6/18/2020	22.38	22.60	0.22	0.14	- -	- -
		9/15/2020	22.58	23.47	0.89	0.67	- -	- -
		11/12/2020	22.22	22.65	0.43	-0.46	- -	- -
		12/2/2020	22.08	23.28	1.20	0.77	- -	- -
		3/24/2021	22.40	23.18	0.78	-0.42	- -	- -
		6/8/2021	22.40	23.58	1.18	0.40	- -	- -
		8/5/2021	21.60	22.40	0.80	-0.38	- -	- -
		9/21/2021	- -	21.32	- -	-0.80	- -	- -
		12/2/2021	21.97	22.05	0.08	0.08	- -	- -
		3/23/2022	22.42	22.62	0.20	0.12	- -	- -
		6/1/2022	22.89	23.10	0.21	0.01	- -	- -
		9/28/2022	22.49	23.08	0.59	0.38	- -	- -
		12/7/2022	23.10	23.52	0.42	-0.17	- -	- -
		2/23/2023	22.46	23.77	1.31	0.89	- -	26.88
		8/14/2023	23.00	24.18	1.18	-0.13	- -	- -
		10/18/2023	22.20	22.72	0.52	-0.66	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-111	Unknown	7/26/2012	21.36	22.90	1.54	- -	- -	27.14
		12/20/2012	21.38	23.19	1.81	0.27	- -	- -
		6/19/2013	21.48	23.52	2.04	0.23	- -	- -
		12/12/2013	20.73	21.63	0.90	-1.14	- -	- -
		6/26/2014	20.65	21.42	0.77	-0.13	- -	- -
		12/18/2014	20.61	20.96	0.35	-0.42	- -	- -
		3/18/2015	21.21	22.30	1.09	0.74	- -	- -
		6/8/2015	20.94	21.71	0.77	-0.32	- -	- -
		9/15/2015	21.36	23.00	1.64	0.87	- -	- -
		12/16/2015	21.26	22.30	1.04	-0.60	- -	- -
		6/6/2016	21.48	23.53	2.05	1.01	- -	- -
		9/25/2016	19.78	20.02	0.24	-1.81	- -	- -
		10/28/2016	20.67	21.24	0.57	0.33	- -	- -
		12/11/2016	21.10	21.80	0.70	0.13	- -	- -
		1/21/2017	21.25	22.37	1.12	0.42	- -	- -
		2/19/2017	21.35	22.60	1.25	0.13	- -	- -
		3/14/2017	21.38	22.62	1.24	-0.01	- -	- -
		4/20/2017	21.47	22.93	1.46	0.22	- -	- -
		6/6/2017	21.48	23.00	1.52	0.06	- -	- -
		9/19/2017	20.78	21.05	0.27	-1.25	- -	- -
		12/6/2017	21.38	22.28	0.90	0.63	- -	- -
		1/24/2018	21.48	22.88	1.40	0.50	- -	- -
		2/21/2018	21.50	22.92	1.42	0.02	- -	- -
		3/15/2018	21.53	22.95	1.42	0.00	- -	- -
		6/6/2018	21.64	22.58	0.94	-0.48	- -	- -
		7/17/2018	21.80	23.48	1.68	0.74	- -	- -
		9/24/2018	21.18	22.02	0.84	-0.84	- -	- -
		10/10/2018	21.30	22.23	0.93	0.09	- -	- -
		12/11/2018	21.11	22.20	1.09	0.16	- -	- -
		1/23/2019	21.48	21.74	0.26	-0.83	- -	- -
		3/13/2019	21.60	22.90	1.30	1.04	- -	- -
		6/26/2019	21.90	23.08	1.18	-0.12	- -	- -
		9/21/2019	22.04	23.00	0.96	-0.22	- -	- -
		12/3/2019	21.72	23.07	1.35	0.39	- -	- -
		3/12/2020	21.30	21.82	0.52	-0.83	- -	- -
		5/20/2020	21.80	22.80	1.00	0.48	- -	- -
		6/18/2020	22.08	22.80	0.72	-0.28	- -	- -
		8/13/2020	22.32	23.21	0.89	0.17	- -	- -
		9/15/2020	22.38	23.47	1.09	0.20	- -	- -
		11/12/2020	22.58	23.37	0.79	-0.30	- -	- -
		12/2/2020	22.02	23.62	1.60	0.81	- -	- -
		3/24/2021	22.80	23.37	0.57	-1.03	- -	- -
		6/8/2021	22.84	23.90	1.06	0.49	- -	- -
		8/5/2021	22.03	22.44	0.41	-0.65	- -	- -
		9/21/2021	- -	21.62	- -	-0.41	- -	- -
		12/2/2021	22.30	22.48	0.18	0.18	- -	- -
		3/23/2022	22.75	22.95	0.20	0.02	- -	- -
		6/1/2022	23.00	23.15	0.15	-0.05	- -	- -
		9/28/2022	22.91	23.17	0.26	0.11	- -	- -
		12/7/2022	22.90	23.24	0.34	0.08	- -	- -
		2/23/2023	22.92	23.68	0.76	0.42	- -	27.22
		8/14/2023	23.37	24.59	1.22	0.46	- -	- -
		10/18/2023	21.75	21.81	0.06	-1.16	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
BH-114	Unknown	7/26/2012	20.85	21.29	0.44	- -	- -	27.44
		12/20/2012	20.66	22.55	1.89	1.45	- -	- -
		6/19/2013	20.73	23.05	2.32	0.43	- -	- -
		12/12/2013	20.10	20.50	0.40	-1.92	- -	- -
		6/26/2014	20.00	20.40	0.40	0.00	- -	- -
		12/18/2014	19.91	19.98	0.07	-0.33	- -	- -
		3/18/2015	21.00	21.01	0.01	-0.06	- -	- -
		6/8/2015	20.27	20.65	0.38	0.37	- -	- -
		9/15/2015	20.78	21.42	0.64	0.26	- -	- -
		12/16/2015	20.63	21.10	0.47	-0.17	- -	- -
		6/6/2016	20.84	22.39	1.55	1.08	- -	- -
		9/25/2016	18.93	19.18	0.25	-1.30	- -	- -
		10/28/2016	19.98	20.23	0.25	0.00	- -	- -
		12/11/2016	20.48	20.60	0.12	-0.13	- -	- -
		1/21/2017	20.65	20.85	0.20	0.08	- -	- -
		2/19/2017	20.80	21.08	0.28	0.08	- -	- -
		3/14/2017	21.84	22.08	0.24	-0.04	- -	- -
		4/20/2017	20.92	21.38	0.46	0.22	- -	- -
		6/6/2017	21.02	21.38	0.36	-0.10	- -	- -
		9/19/2017	17.03	17.24	0.21	-0.15	- -	- -
		12/6/2017	- -	20.78	- -	-0.21	- -	- -
		1/24/2018	20.90	21.40	0.50	0.50	- -	- -
		2/21/2018	20.95	21.55	0.60	0.10	- -	- -
		3/15/2018	21.49	21.68	0.19	-0.41	- -	- -
		6/6/2018	21.28	21.48	0.20	0.01	- -	- -
		7/17/2018	21.20	22.28	1.08	0.88	- -	- -
		9/24/2018	20.54	21.03	0.49	-0.59	- -	- -
		10/10/2018	20.77	21.03	0.26	-0.23	- -	- -
		12/11/2018	20.60	20.74	0.14	-0.12	- -	- -
		3/13/2019	21.05	21.75	0.70	0.56	- -	- -
		6/26/2019	21.30	21.98	0.68	-0.02	- -	- -
		9/21/2019	21.41	21.92	0.51	-0.17	- -	- -
		12/3/2019	21.15	21.30	0.15	-0.36	- -	- -
		3/12/2020	20.80	21.09	0.29	0.14	- -	- -
		5/20/2020	20.98	21.25	0.27	-0.02	- -	- -
		6/18/2020	21.38	21.72	0.34	0.07	- -	- -
		8/13/2020	21.63	21.84	0.21	-0.13	- -	- -
		9/15/2020	21.75	22.14	0.39	0.18	- -	- -
		11/12/2020	21.90	22.09	0.19	-0.20	- -	- -
		12/2/2020	21.90	22.02	0.12	-0.07	- -	- -
		3/24/2021	22.10	22.17	0.07	-0.05	- -	- -
		6/8/2021	22.18	22.44	0.26	0.19	- -	- -
		8/5/2021	- -	21.38	- -	-0.26	- -	- -
		9/21/2021	- -	20.78	- -	0.00	- -	- -
		12/2/2021	- -	21.65	- -	0.00	- -	- -
		3/23/2022	- -	22.05	- -	0.00	- -	- -
		6/1/2022	Trace	22.38	- -	0.00	- -	- -
		9/28/2022	22.18	22.22	0.04	0.04	- -	- -
		12/7/2022	--	22.20	- -	-0.04	- -	- -
		2/23/2023	--	22.25	- -	0.00	- -	27.55
		8/14/2023	22.77	22.81	0.04	0.04	- -	- -
		10/18/2023	- -	21.39	- -	-0.04	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MRW-2	Unknown	6/19/2013	19.42	19.62	0.20	- -	- -	35.20
		12/12/2013	17.64	18.50	0.86	0.66	- -	- -
		6/26/2014	17.63	17.76	0.13	-0.73	- -	- -
		12/18/2014	17.60	17.80	0.20	0.07	- -	- -
		3/18/2015	18.25	18.60	0.35	0.15	- -	- -
		6/8/2015	17.94	18.42	0.48	0.13	- -	- -
		9/15/2015	18.40	18.99	0.59	0.11	- -	- -
		12/16/2015	18.25	18.87	0.62	0.03	- -	- -
		6/6/2016	18.65	19.44	0.79	0.17	- -	- -
		9/25/2016	16.70	16.95	0.25	-0.54	- -	- -
		10/28/2016	17.61	17.80	0.19	-0.06	- -	- -
		12/11/2016	18.10	18.19	0.09	-0.10	- -	- -
		1/21/2017	18.30	18.38	0.08	-0.01	- -	- -
		2/19/2017	18.40	18.50	0.10	0.02	- -	- -
		3/14/2017	18.48	18.52	0.04	-0.06	- -	- -
		4/20/2017	18.55	18.68	0.13	0.09	- -	- -
		6/6/2017	18.57	18.67	0.10	-0.03	- -	- -
		9/19/2017	- -	17.70	- -	-0.10	- -	- -
		12/6/2017	- -	18.40	- -	0.00	- -	- -
		1/24/2018	18.58	18.70	0.12	0.12	- -	- -
		2/21/2018	- -	18.75	- -	-0.12	- -	- -
		3/15/2018	- -	18.60	- -	0.00	- -	- -
		6/6/2018	- -	20.46	- -	0.00	- -	- -
		7/17/2018	19.01	19.02	0.01	0.01	- -	- -
		9/24/2018	18.20	18.28	0.08	0.07	- -	- -
		10/10/2018	18.41	18.42	0.01	-0.07	- -	- -
		12/11/2018	18.20	18.28	0.08	0.07	- -	- -
		3/13/2019	- -	18.70	- -	-0.08	- -	- -
		6/26/2019	18.95	19.00	0.05	0.05	- -	- -
		9/21/2019	- -	19.08	- -	-0.05	- -	- -
		12/3/2019	- -	18.75	- -	0.00	- -	- -
		3/12/2020	- -	18.72	- -	0.00	- -	- -
		5/20/2020	- -	18.80	- -	0.00	- -	- -
		6/18/2020	18.04	18.84	0.80	0.80	- -	- -
		9/15/2020	19.20	19.28	0.08	-0.72	- -	- -
		11/12/2020	- -	19.65	- -	-0.08	- -	- -
		12/2/2020	- -	18.75	- -	0.00	- -	- -
		3/24/2021	- -	19.04	- -	0.00	- -	- -
		6/8/2021	- -	19.80	- -	0.00	- -	- -
		8/5/2021	- -	19.69	- -	0.00	- -	- -
		9/21/2021	- -	18.28	- -	0.00	- -	- -
		12/2/2021	- -	19.22	- -	0.00	- -	- -
		3/23/2022	- -	19.65	- -	0.00	- -	- -
		6/1/2022	- -	19.92	- -	0.00	- -	- -
		9/28/2022	- -	19.84	- -	0.00	- -	- -
		12/7/2022	- -	19.97	- -	0.00	- -	- -
		2/23/2023	19.92	20.17	0.25	0.25	- -	33.75
		8/14/2023	20.43	20.55	0.12	-0.13	- -	- -
		10/18/2023	19.15	19.36	0.21	0.09	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MRW-3	Unknown	6/19/2013	19.10	20.02	0.92	- -	- -	34.98
		12/12/2013	17.44	18.26	0.82	-0.10	- -	- -
		6/26/2014	17.92	17.99	0.07	-0.75	- -	- -
		12/18/2014	17.39	17.45	0.06	-0.01	- -	- -
		3/18/2015	18.03	18.30	0.27	0.21	- -	- -
		6/8/2015	17.64	18.06	0.42	0.15	- -	- -
		9/15/2015	18.15	19.06	0.91	0.49	- -	- -
		12/16/2015	18.01	18.80	0.79	-0.12	- -	- -
		6/6/2016	18.33	19.43	1.10	0.31	- -	- -
		9/25/2016	16.42	17.00	0.58	-0.52	- -	- -
		10/28/2016	17.54	17.74	0.20	-0.38	- -	- -
		12/11/2016	17.90	18.02	0.12	-0.08	- -	- -
		1/21/2017	18.08	18.15	0.07	-0.05	- -	- -
		2/19/2017	18.22	18.32	0.10	0.03	- -	- -
		3/14/2017	18.24	18.38	0.14	0.04	- -	- -
		4/20/2017	18.35	18.50	0.15	0.01	- -	- -
		6/6/2017	18.39	18.50	0.11	-0.04	- -	- -
		9/19/2017	- -	17.48	- -	-0.11	- -	- -
		12/6/2017	- -	18.18	- -	0.00	- -	- -
		1/24/2018	18.32	18.50	0.18	0.18	- -	- -
		2/21/2018	- -	18.72	- -	-0.18	- -	- -
		3/15/2018	18.38	18.61	0.23	0.23	- -	- -
		6/6/2018	- -	20.42	- -	-0.23	- -	- -
		7/17/2018	17.63	17.64	0.01	0.01	- -	- -
		9/24/2018	17.87	18.18	0.31	0.30	- -	- -
		10/10/2018	18.18	18.23	0.05	-0.26	- -	- -
		12/11/2018	17.60	17.70	0.10	0.05	- -	- -
		3/13/2019	18.45	18.90	0.45	0.35	- -	- -
		6/26/2019	18.70	18.95	0.25	-0.20	- -	- -
		9/21/2019	18.85	18.98	0.13	-0.12	- -	- -
		12/3/2019	18.50	18.62	0.12	-0.01	- -	- -
		3/12/2020	- -	18.02	- -	-0.12	- -	- -
		5/20/2020	- -	18.63	- -	0.00	- -	- -
		6/18/2020	18.80	18.92	0.12	0.12	- -	- -
		9/15/2020	- -	19.20	- -	-0.12	- -	- -
		12/2/2020	- -	18.54	- -	0.00	- -	- -
		3/24/2021	- -	19.64	- -	0.00	- -	- -
		6/8/2021	- -	19.70	- -	0.00	- -	- -
		8/5/2021	- -	19.45	- -	0.00	- -	- -
		9/21/2021	- -	18.33	- -	0.00	- -	- -
		12/2/2021	- -	19.54	- -	0.00	- -	- -
		3/23/2022	- -	19.92	- -	0.00	- -	- -
		6/1/2022	- -	20.19	- -	0.00	- -	- -
		9/28/2022	19.63	19.65	0.02	0.02	- -	- -
		12/7/2022	- -	20.02	- -	-0.02	- -	- -
		2/23/2023	19.71	19.90	0.19	0.19	- -	34.78
		8/14/2023	20.22	20.29	0.07	-0.12	- -	- -
		10/18/2023	18.95	19.10	0.15	0.08	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MRW-4	Unknown	6/19/2013	18.68	20.63	1.95	- -	- -	34.72
		12/12/2013	16.94	18.35	1.41	-0.54	- -	- -
		6/26/2014	16.69	18.22	1.53	0.12	- -	- -
		12/18/2014	16.92	17.72	0.80	-0.73	- -	- -
		3/18/2015	17.52	18.57	1.05	0.25	- -	- -
		6/8/2015	17.17	18.11	0.94	-0.11	- -	- -
		9/15/2015	17.85	18.20	0.35	-0.59	- -	- -
		12/16/2015	17.70	17.98	0.28	-0.07	- -	- -
		6/6/2016	17.91	19.05	1.14	0.86	- -	- -
		9/25/2016	16.04	16.64	0.60	-0.54	- -	- -
		10/28/2016	17.09	17.32	0.23	-0.37	- -	- -
		12/11/2016	17.45	17.65	0.20	-0.03	- -	- -
		1/21/2017	17.70	17.80	0.10	-0.10	- -	- -
		2/19/2017	17.72	17.86	0.14	0.04	- -	- -
		3/14/2017	17.20	17.55	0.35	0.21	- -	- -
		4/20/2017	17.95	18.10	0.15	-0.20	- -	- -
		6/6/2017	17.99	18.03	0.04	-0.11	- -	- -
		9/19/2017	- -	17.10	- -	-0.04	- -	- -
		12/6/2017	17.78	17.98	0.20	0.20	- -	- -
		1/24/2018	17.92	18.15	0.23	0.03	- -	- -
		2/21/2018	18.00	18.12	0.12	-0.11	- -	- -
		3/15/2018	18.00	18.09	0.09	-0.03	- -	- -
		6/6/2018	- -	18.14	- -	-0.09	- -	- -
		7/17/2018	18.07	19.20	1.13	1.13	- -	- -
		9/24/2018	17.58	17.93	0.35	-0.78	- -	- -
		10/10/2018	17.80	17.88	0.08	-0.27	- -	- -
		12/11/2018	17.60	17.70	0.10	0.02	- -	- -
		3/13/2019	18.10	18.30	0.20	0.10	- -	- -
		6/26/2019	18.35	18.40	0.05	-0.15	- -	- -
		9/21/2019	18.40	18.90	0.50	0.45	- -	- -
		12/3/2019	18.15	18.38	0.23	-0.27	- -	- -
		3/12/2020	17.60	17.82	0.22	-0.01	- -	- -
		5/20/2020	18.15	18.18	0.03	-0.19	- -	- -
		6/18/2020	18.41	18.62	0.21	0.18	- -	- -
		9/15/2020	18.78	19.18	0.40	0.19	- -	- -
		11/12/2020	19.05	19.25	0.20	-0.20	- -	- -
		12/2/2020	19.05	20.01	0.96	0.76	- -	- -
		3/24/2021	19.00	20.05	1.05	0.09	- -	- -
		6/8/2021	19.12	19.82	0.70	-0.35	- -	- -
		8/5/2021	18.40	18.62	0.22	-0.48	- -	- -
		9/21/2021	17.97	17.98	0.01	-0.21	- -	- -
		12/2/2021	20.15	20.42	0.27	0.26	- -	- -
		3/23/2022	- -	19.18	- -	-0.27	- -	- -
		6/1/2022	19.34	19.48	0.14	0.14	- -	- -
		9/28/2022	19.29	19.33	0.04	-0.10	- -	- -
		12/7/2022	- -	19.20	- -	-0.04	- -	- -
		2/23/2023	19.30	19.70	0.40	0.40	- -	34.52
		8/14/2023	19.83	20.26	0.43	0.03	- -	- -
		10/18/2023	- -	18.57	- -	-0.43	- -	- -

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Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MRW-5	Unknown	6/19/2013	17.80	20.80	3.00	- -	- -	35.40
		12/12/2013	16.29	18.98	2.69	-0.31	- -	- -
		6/26/2014	16.59	16.73	0.14	-2.55	- -	- -
		12/18/2014	16.60	16.68	0.08	-0.06	- -	- -
		3/18/2015	17.20	17.50	0.30	0.22	- -	- -
		6/8/2015	16.80	17.40	0.60	0.30	- -	- -
		9/15/2015	17.37	18.15	0.78	0.18	- -	- -
		12/16/2015	17.17	18.13	0.96	0.18	- -	- -
		6/6/2016	17.46	19.08	1.62	0.66	- -	- -
		9/25/2016	13.15	17.50	4.35	2.73	- -	- -
		10/28/2016	16.63	17.16	0.53	-3.82	- -	- -
		12/11/2016	17.03	17.35	0.32	-0.21	- -	- -
		1/21/2017	17.28	17.50	0.22	-0.10	- -	- -
		2/19/2017	17.72	17.86	0.14	-0.08	- -	- -
		3/14/2017	17.87	17.92	0.05	-0.09	- -	- -
		4/20/2017	17.50	17.75	0.25	0.20	- -	- -
		6/6/2017	17.54	17.71	0.17	-0.08	- -	- -
		9/19/2017	16.70	16.80	0.10	-0.07	- -	- -
		12/6/2017	17.35	17.55	0.20	0.10	- -	- -
		1/24/2018	17.47	17.88	0.41	0.21	- -	- -
		2/21/2018	17.55	17.88	0.33	-0.08	- -	- -
		3/15/2018	17.58	17.88	0.30	-0.03	- -	- -
		6/6/2018	17.72	17.84	0.12	-0.18	- -	- -
		7/17/2018	17.80	18.80	1.00	0.88	- -	- -
		9/24/2018	17.02	18.02	1.00	0.00	- -	- -
		10/10/2018	17.31	17.70	0.39	-0.61	- -	- -
		12/11/2018	17.15	17.40	0.25	-0.14	- -	- -
		3/13/2019	17.40	18.35	0.95	0.70	- -	- -
		6/26/2019	17.85	18.60	0.75	-0.20	- -	- -
		9/21/2019	18.08	18.60	0.52	-0.23	- -	- -
		12/3/2019	17.70	18.20	0.50	-0.02	- -	- -
		3/12/2020	17.02	18.62	1.60	1.10	- -	- -
		5/20/2020	17.60	18.04	0.44	-1.16	- -	- -
		6/18/2020	17.95	18.47	0.52	0.08	- -	- -
		8/13/2020	18.18	19.23	1.05	0.53	- -	- -
		9/15/2020	18.28	19.10	0.82	-0.23	- -	- -
		11/12/2020	18.42	19.12	0.70	-0.12	- -	- -
		12/2/2020	18.45	20.44	1.99	1.29	- -	- -
		3/24/2021	18.66	19.29	0.63	-1.36	- -	- -
		6/8/2021	19.80	20.03	0.23	-0.40	- -	- -
		8/5/2021	17.90	18.92	1.02	0.79	- -	- -
		9/21/2021	17.46	17.48	0.02	-1.00	- -	- -
		12/2/2021	19.96	20.02	0.06	0.04	- -	- -
		3/23/2022	18.68	18.92	0.24	0.18	- -	- -
		6/1/2022	18.97	19.05	0.08	-0.16	- -	- -
		9/28/2022	18.81	19.27	0.46	0.38	- -	- -
		12/7/2022	18.74	19.15	0.41	-0.05	- -	- -
		2/23/2023	18.76	20.18	1.42	1.01	- -	34.90
		8/14/2023	19.28	20.62	1.34	-0.08	- -	- -
		10/18/2023	18.13	18.40	0.27	-1.07	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MRW-6	Unknown	6/19/2013	20.08	20.30	0.22	- -	- -	33.43
		12/12/2013	16.59	16.82	0.23	0.01	- -	- -
		6/26/2014	16.49	16.58	0.09	-0.14	- -	- -
		12/18/2014	16.51	16.61	0.10	0.01	- -	- -
		3/18/2015	17.14	17.20	0.06	-0.04	- -	- -
		6/8/2015	16.77	16.90	0.13	0.07	- -	- -
		9/15/2015	- -	17.35	- -	-0.13	- -	- -
		12/16/2015	- -	17.20	- -	0.00	- -	- -
		6/6/2016	17.54	17.55	0.01	0.01	- -	- -
		9/25/2016	- -	15.64	- -	-0.01	- -	- -
		10/28/2016	- -	16.62	- -	0.00	- -	- -
		12/11/2016	- -	16.95	- -	0.00	- -	- -
		1/21/2017	- -	17.18	- -	0.00	- -	- -
		2/19/2017	17.30	17.32	0.02	0.02	- -	- -
		3/14/2017	- -	17.33	- -	-0.02	- -	- -
		4/20/2017	18.44	18.45	0.01	0.01	- -	- -
		6/6/2017	18.17	18.18	0.01	0.00	- -	- -
		9/19/2017	- -	16.60	- -	-0.01	- -	- -
		12/6/2017	17.18	17.20	0.02	0.02	- -	- -
		1/24/2018	16.90	17.02	0.12	0.10	- -	- -
		2/21/2018	- -	18.67	- -	-0.12	- -	- -
		3/15/2018	- -	17.52	- -	0.00	- -	- -
		6/6/2018	- -	17.68	- -	0.00	- -	- -
		7/17/2018	17.80	18.09	0.29	0.29	- -	- -
		9/24/2018	- -	17.05	- -	-0.29	- -	- -
		10/10/2018	17.75	17.76	0.01	0.01	- -	- -
		12/11/2018	17.09	17.10	0.01	0.00	- -	- -
		3/13/2019	- -	17.60	- -	-0.01	- -	- -
		6/26/2019	- -	17.85	- -	0.00	- -	- -
		9/21/2019	- -	17.97	- -	0.00	- -	- -
		12/3/2019	- -	17.65	- -	0.00	- -	- -
		3/12/2020	- -	17.08	- -	0.00	- -	- -
		5/20/2020	- -	17.49	- -	0.00	- -	- -
		6/18/2020	- -	17.91	- -	0.00	- -	- -
		9/15/2020	- -	18.30	- -	0.00	- -	- -
		12/2/2020	- -	17.76	- -	0.00	- -	- -
		3/24/2021	- -	18.68	- -	0.00	- -	- -
		6/8/2021	- -	18.78	- -	0.00	- -	- -
		8/5/2021	- -	18.45	- -	0.00	- -	- -
		9/21/2021	- -	17.88	- -	0.00	- -	- -
		12/2/2021	- -	19.10	- -	0.00	- -	- -
		3/23/2022	- -	19.54	- -	0.00	- -	- -
		6/1/2022	- -	19.88	- -	0.00	- -	- -
		9/28/2022	- -	19.56	- -	0.00	- -	- -
		12/7/2022	- -	19.88	- -	0.00	- -	- -
		2/23/2023	18.82	19.10	0.28	0.28	- -	32.99
		8/14/2023	19.33	19.82	0.49	0.21	- -	- -
		10/18/2023	18.08	18.25	0.17	-0.32	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MRW-7	Unknown	6/19/2013	19.40	19.41	0.01	- -	- -	33.20
		12/12/2013	16.10	16.12	0.02	0.01	- -	- -
		6/26/2014	15.92	16.35	0.43	0.41	- -	- -
		12/18/2014	16.04	16.14	0.10	-0.33	- -	- -
		3/18/2015	16.60	17.09	0.49	0.39	- -	- -
		6/8/2015	16.23	16.62	0.39	-0.10	- -	- -
		9/15/2015	16.78	17.08	0.30	-0.09	- -	- -
		12/16/2015	16.60	17.21	0.61	0.31	- -	- -
		6/6/2016	16.95	17.45	0.50	-0.11	- -	- -
		9/25/2016	15.29	15.61	0.32	-0.18	- -	- -
		10/28/2016	16.13	16.26	0.13	-0.19	- -	- -
		12/11/2016	16.45	16.62	0.17	0.04	- -	- -
		1/21/2017	16.64	16.70	0.06	-0.11	- -	- -
		2/19/2017	16.80	16.87	0.07	0.01	- -	- -
		3/14/2017	16.81	16.84	0.03	-0.04	- -	- -
		4/20/2017	16.95	17.00	0.05	0.02	- -	- -
		6/6/2017	16.98	17.00	0.02	-0.03	- -	- -
		9/19/2017	16.10	16.14	0.04	0.02	- -	- -
		12/6/2017	16.75	16.82	0.07	0.03	- -	- -
		1/24/2018	16.90	17.02	0.12	0.05	- -	- -
		2/21/2018	- -	15.25	- -	-0.12	- -	- -
		3/15/2018	- -	17.25	- -	0.00	- -	- -
		6/6/2018	- -	17.15	- -	0.00	- -	- -
		7/17/2018	- -	17.20	- -	0.00	- -	- -
		9/24/2018	- -	16.52	- -	0.00	- -	- -
		10/10/2018	16.69	16.70	0.01	0.01	- -	- -
		12/11/2018	16.70	16.90	0.20	0.19	- -	- -
		3/13/2019	- -	17.05	- -	-0.20	- -	- -
		6/26/2019	- -	16.34	- -	0.00	- -	- -
		9/21/2019	- -	16.65	- -	0.00	- -	- -
		12/3/2019	- -	17.08	- -	0.00	- -	- -
		3/12/2020	- -	16.57	- -	0.00	- -	- -
		5/20/2020	- -	17.11	- -	0.00	- -	- -
		6/18/2020	- -	17.43	- -	0.00	- -	- -
		9/15/2020	17.88	18.15	0.27	0.27	- -	- -
		12/2/2020	- -	17.18	- -	-0.27	- -	- -
		3/24/2021	- -	18.18	- -	0.00	- -	- -
		6/8/2021	- -	18.28	- -	0.00	- -	- -
		8/5/2021	- -	18.11	- -	0.00	- -	- -
		9/21/2021	- -	17.67	- -	0.00	- -	- -
		12/2/2021	- -	18.34	- -	0.00	- -	- -
		3/23/2022	- -	18.63	- -	0.00	- -	- -
		6/1/2022	- -	18.90	- -	0.00	- -	- -
		9/28/2022	- -	18.43	- -	0.00	- -	- -
		12/7/2022	- -	18.78	- -	0.00	- -	- -
		2/23/2023	18.40	18.45	0.05	0.05	- -	33.08
		8/14/2023	18.91	18.98	0.07	0.02	- -	- -
		10/18/2023	- -	19.64	- -	-0.07	- -	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MRW-14	Unknown	6/19/2013	25.25	25.35	0.10	- -	- -	38.50
		12/12/2013	21.90	22.12	0.22	0.12	- -	- -
		6/26/2014	21.69	21.89	0.20	-0.02	- -	- -
		12/18/2014	21.73	21.81	0.08	-0.12	- -	- -
		3/18/2015	22.39	22.56	0.17	0.09	- -	- -
		6/8/2015	22.10	22.29	0.19	0.02	- -	- -
		9/15/2015	22.55	22.80	0.25	0.06	- -	- -
		12/16/2015	- -	22.44	- -	-0.25	- -	- -
		6/6/2016	22.81	22.93	0.12	0.12	- -	- -
		9/25/2016	- -	19.88	- -	-0.12	- -	- -
		10/28/2016	- -	21.29	- -	0.00	- -	- -
		12/11/2016	- -	22.24	- -	0.00	- -	- -
		1/21/2017	- -	23.45	- -	0.00	- -	- -
		2/19/2017	- -	22.62	- -	0.00	- -	- -
		3/14/2017	- -	22.60	- -	0.00	- -	- -
		4/20/2017	- -	22.70	- -	0.00	- -	- -
		6/6/2017	- -	22.70	- -	0.00	- -	- -
		9/19/2017	- -	22.08	- -	0.00	- -	- -
		12/6/2017	- -	22.62	- -	0.00	- -	- -
		1/24/2018	- -	22.80	- -	0.00	- -	- -
		2/21/2018	- -	23.03	- -	0.00	- -	- -
		3/15/2018	- -	22.79	- -	0.00	- -	- -
		6/6/2018	23.90	23.93	0.03	0.03	- -	- -
		7/17/2018	23.06	23.07	0.01	-0.02	- -	- -
		9/24/2018	Trace	22.32	- -	-0.01	- -	- -
		10/10/2018	- -	22.70	- -	0.00	- -	- -
		12/11/2018	- -	22.38	- -	0.00	- -	- -
		3/13/2019	- -	22.66	- -	0.00	- -	- -
		6/26/2019	- -	22.34	- -	0.00	- -	- -
		9/21/2019	- -	23.30	- -	0.00	- -	- -
		12/3/2019	- -	22.90	- -	0.00	- -	- -
		3/12/2020	- -	22.19	- -	0.00	- -	- -
		5/20/2020	- -	22.58	- -	0.00	- -	- -
		6/18/2020	- -	23.16	- -	0.00	- -	- -
		9/15/2020	- -	23.58	- -	0.00	- -	- -
		12/2/2020	- -	22.85	- -	0.00	- -	- -
		3/24/2021	- -	23.95	- -	0.00	- -	- -
		6/8/2021	- -	24.08	- -	0.00	- -	- -
		8/5/2021	- -	23.18	- -	0.00	- -	- -
		9/21/2021	- -	22.88	- -	0.00	- -	- -
		12/2/2021	- -	23.87	- -	0.00	- -	- -
		3/23/2022	- -	24.12	- -	0.00	- -	- -
		6/1/2022	- -	24.39	- -	0.00	- -	- -
		9/28/2022	- -	24.21	- -	0.00	- -	- -
		12/7/2022	- -	24.56	- -	0.00	- -	- -
		2/23/2023	24.24	24.30	0.06	0.06	- -	37.50
		8/14/2023	24.64	24.74	0.10	0.04	- -	- -
		10/18/2023	- -	24.19	- -	-0.10	- -	- -

TABLE 1
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Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MW-1	3,670.05	7/26/2012	- -	22.02	- -	- -	- -	38.77
		12/20/2012	- -	22.27	- -	0.00	3,647.78	- -
		6/23/2013	- -	22.32	- -	0.00	3,647.73	- -
		12/12/2013	- -	21.30	- -	0.00	3,648.75	- -
		6/26/2014	- -	21.10	- -	0.00	3,648.95	- -
		12/18/2014	- -	21.50	- -	0.00	3,648.55	- -
		3/18/2015	- -	22.08	- -	0.00	3,647.97	- -
		6/9/2015	- -	21.67	- -	0.00	3,648.38	- -
		12/16/2015	- -	22.01	- -	0.00	3,648.04	- -
		6/6/2016	- -	22.46	- -	0.00	3,647.59	- -
		12/13/2016	- -	21.82	- -	0.00	3,648.23	- -
		6/7/2017	- -	22.40	- -	0.00	3,647.65	- -
		12/6/2017	- -	22.20	- -	0.00	3,647.85	- -
		3/15/2018	- -	20.35	- -	0.00	3,649.70	- -
		6/6/2018	- -	22.48	- -	0.00	3,647.57	- -
		9/24/2018	- -	21.92	- -	0.00	3,648.13	- -
		12/11/2018	- -	21.95	- -	0.00	3,648.10	- -
		3/13/2019	- -	22.53	- -	0.00	3,647.52	- -
		6/26/2019	- -	22.68	- -	0.00	3,647.37	- -
		9/21/2019	- -	22.84	- -	0.00	3,647.21	- -
		12/3/2019	- -	22.55	- -	0.00	3,647.50	- -
		3/14/2020	- -	21.80	- -	0.00	3,648.25	- -
		6/18/2020	- -	22.87	- -	0.00	3,647.18	- -
		9/15/2020	- -	23.24	- -	0.00	3,646.81	- -
		12/2/2020	- -	23.41	- -	0.00	3,646.64	- -
		3/24/2021	- -	23.58	- -	0.00	3,646.47	- -
		6/8/2021	- -	23.82	- -	0.00	3,646.23	- -
		9/21/2021	- -	22.12	- -	0.00	3,647.93	- -
		12/2/2021	- -	23.04	- -	0.00	3,647.01	- -
		3/23/2022	- -	23.64	- -	0.00	3,646.41	- -
		6/1/2022	- -	23.80	- -	0.00	3,646.25	- -
		9/28/2022	- -	23.83	- -	0.00	3,646.22	- -
		12/7/2022	- -	23.80	- -	0.00	3,646.25	- -
		2/23/2023	- -	23.95	- -	0.00	3,646.10	37.72
		8/14/2023	- -	24.49	- -	0.00	3,645.56	37.50
		10/19/2023	- -	23.22	- -	0.00	3,646.83	- -

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MW-3	3,666.41	7/26/2012	- -	21.72	- -	- -	- -	37.52
		12/20/2012	- -	21.75	- -	0.00	3,644.66	- -
		6/23/2013	- -	21.10	- -	0.00	3,645.31	- -
		12/12/2013	- -	21.10	- -	0.00	3,645.31	- -
		6/26/2014	- -	20.97	- -	0.00	3,645.44	- -
		12/18/2014	- -	20.55	- -	0.00	3,645.86	- -
		3/18/2015	- -	21.42	- -	0.00	3,644.99	- -
		6/9/2015	- -	21.14	- -	0.00	3,645.27	- -
		12/16/2015	- -	21.48	- -	0.00	3,644.93	- -
		6/6/2016	- -	21.86	- -	0.00	3,644.55	- -
		12/13/2016	- -	21.27	- -	0.00	3,645.14	- -
		6/7/2017	- -	21.83	- -	0.00	3,644.58	- -
		12/6/2017	- -	21.58	- -	0.00	3,644.83	- -
		3/15/2018	- -	21.17	- -	0.00	3,645.24	- -
		6/6/2018	- -	21.98	- -	0.00	3,644.43	- -
		9/24/2018	- -	21.43	- -	0.00	3,644.98	- -
		12/11/2018	- -	21.54	- -	0.00	3,644.87	- -
		3/13/2019	- -	21.90	- -	0.00	3,644.51	- -
		6/26/2019	- -	22.11	- -	0.00	3,644.30	- -
		9/21/2019	- -	22.25	- -	0.00	3,644.16	- -
		12/3/2019	- -	24.95	- -	0.00	3,641.46	- -
		3/14/2020	- -	21.33	- -	0.00	3,645.08	- -
		6/18/2020	- -	22.14	- -	0.00	3,644.27	- -
		9/15/2020	- -	22.82	- -	0.00	3,643.59	- -
		12/2/2020	- -	22.85	- -	0.00	3,643.56	- -
		3/24/2021	- -	22.77	- -	0.00	3,643.64	- -
		6/8/2021	- -	22.97	- -	0.00	3,643.44	- -
		9/21/2021	- -	21.65	- -	0.00	3,644.76	- -
		12/2/2021	- -	22.33	- -	0.00	3,644.08	- -
		3/23/2022	- -	22.80	- -	0.00	3,643.61	- -
		6/1/2022	- -	23.00	- -	0.00	3,643.41	- -
		9/28/2022	- -	22.89	- -	0.00	3,643.52	- -
		12/7/2022	- -	22.81	- -	0.00	3,643.60	- -
		2/23/2023	- -	22.95	- -	0.00	3,643.46	37.80
		8/14/2023	- -	23.48	- -	0.00	3,642.93	37.27
		10/19/2023	- -	21.10	- -	0.00	3,645.31	- -

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Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MW-5	3,670.43	7/26/2012	- -	24.00	- -	- -	- -	39.36
		12/20/2012	- -	23.99	- -	0.00	3,646.44	- -
		6/23/2013	- -	21.36	- -	0.00	3,649.07	- -
		12/12/2013	- -	23.33	- -	0.00	3,647.10	- -
		6/26/2014	- -	23.13	- -	0.00	3,647.30	- -
		12/18/2014	- -	23.05	- -	0.00	3,647.38	- -
		3/18/2015	- -	23.69	- -	0.00	3,646.74	- -
		6/9/2015	- -	23.44	- -	0.00	3,646.99	- -
		12/16/2015	- -	23.68	- -	0.00	3,646.75	- -
		6/6/2016	- -	24.11	- -	0.00	3,646.32	- -
		12/13/2016	- -	23.50	- -	0.00	3,646.93	- -
		6/7/2017	- -	24.07	- -	0.00	3,646.36	- -
		12/6/2017	- -	23.87	- -	0.00	3,646.56	- -
		3/15/2018	- -	23.95	- -	0.00	3,646.48	- -
		6/6/2018	- -	24.19	- -	0.00	3,646.24	- -
		9/24/2018	- -	23.69	- -	0.00	3,646.74	- -
		12/11/2018	- -	23.67	- -	0.00	3,646.76	- -
		3/13/2019	- -	24.10	- -	0.00	3,646.33	- -
		6/26/2019	- -	24.32	- -	0.00	3,646.11	- -
		9/21/2019	- -	24.49	- -	0.00	3,645.94	- -
		12/3/2019	- -	24.14	- -	0.00	3,646.29	- -
		3/14/2020	- -	23.73	- -	0.00	3,646.70	- -
		6/18/2020	- -	24.40	- -	0.00	3,646.03	- -
		9/15/2020	- -	24.51	- -	0.00	3,645.92	- -
		12/2/2020	- -	24.66	- -	0.00	3,645.77	- -
		3/24/2021	- -	25.08	- -	0.00	3,645.35	- -
		6/8/2021	- -	25.30	- -	0.00	3,645.13	- -
		9/21/2021	- -	23.93	- -	0.00	3,646.50	- -
		12/2/2021	- -	24.63	- -	0.00	3,645.80	- -
		3/23/2022	- -	25.12	- -	0.00	3,645.31	- -
		6/1/2022	- -	25.33	- -	0.00	3,645.10	- -
		9/28/2022	- -	25.34	- -	0.00	3,645.09	- -
		12/7/2022	- -	25.30	- -	0.00	3,645.13	- -
		2/23/2023	- -	25.41	- -	0.00	3,645.02	39.34
		8/14/2023	- -	25.92	- -	0.00	3,644.51	39.40
		10/19/2023	- -	24.84	- -	0.00	3,645.59	- -

TABLE 1
Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MW-6	3,660.50	7/26/2012	- -	16.42	- -	- -	- -	32.62
		12/20/2012	- -	17.50	- -	0.00	3,643.00	- -
		6/23/2013	- -	19.78	- -	0.00	3,640.72	- -
		12/12/2013	- -	16.80	- -	0.00	3,643.70	- -
		6/26/2014	- -	16.63	- -	0.00	3,643.87	- -
		12/18/2014	- -	16.10	- -	0.00	3,644.40	- -
		3/18/2015	- -	17.11	- -	0.00	3,643.39	- -
		6/8/2015	- -	16.76	- -	0.00	3,643.74	- -
		12/16/2015	- -	17.18	- -	0.00	3,643.32	- -
		6/6/2016	- -	17.58	- -	0.00	3,642.92	- -
		1/21/2017	- -	16.92	- -	0.00	3,643.58	- -
		6/7/2017	- -	17.54	- -	0.00	3,642.96	- -
		12/6/2017	- -	17.21	- -	0.00	3,643.29	- -
		3/15/2018	- -	17.50	- -	0.00	3,643.00	- -
		6/6/2018	- -	17.72	- -	0.00	3,642.78	- -
		9/24/2018	- -	17.12	- -	0.00	3,643.38	- -
		12/11/2018	- -	17.12	- -	0.00	3,643.38	- -
		3/13/2019	- -	17.63	- -	0.00	3,642.87	- -
		6/26/2019	- -	17.81	- -	0.00	3,642.69	- -
		9/21/2019	- -	18.01	- -	0.00	3,642.49	- -
		12/3/2019	- -	17.68	- -	0.00	3,642.82	- -
		3/14/2020	- -	17.16	- -	0.00	3,643.34	- -
		6/18/2020	- -	17.88	- -	0.00	3,642.62	- -
		9/15/2020	- -	18.24	- -	0.00	3,642.26	- -
		12/2/2020	- -	18.39	- -	0.00	3,642.11	- -
		3/24/2021	- -	18.51	- -	0.00	3,641.99	- -
		6/8/2021	- -	18.79	- -	0.00	3,641.71	- -
		9/21/2021	- -	17.38	- -	0.00	3,643.12	- -
		12/2/2021	- -	18.03	- -	0.00	3,642.47	- -
		3/23/2022	- -	18.48	- -	0.00	3,642.02	- -
		6/1/2022	- -	18.74	- -	0.00	3,641.76	- -
		9/28/2022	- -	18.51	- -	0.00	3,641.99	- -
		12/7/2022	- -	18.40	- -	0.00	3,642.10	- -
		2/23/2023	- -	18.51	- -	0.00	3,641.99	32.21
		8/14/2023	- -	19.21	- -	0.00	3,641.29	32.15
		10/19/2023	- -	17.43	- -	0.00	3,643.07	- -

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Summary of Fluid Levels
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well ID	Top of Casing Elevation (feet)	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)	Groundwater Level Elevation (feet)	Total Depth (ft-btoc)
MW-7	3,662.47	7/26/2012	- -	18.84	- -	- -	- -	32.27
		12/20/2012	- -	18.93	- -	0.00	3,643.54	- -
		6/23/2013	- -	19.08	- -	0.00	3,643.39	- -
		12/12/2013	- -	18.16	- -	0.00	3,644.31	- -
		6/26/2014	- -	17.93	- -	0.00	3,644.54	- -
		12/18/2014	- -	17.70	- -	0.00	3,644.77	- -
		3/18/2015	- -	18.59	- -	0.00	3,643.88	- -
		6/9/2015	- -	18.25	- -	0.00	3,644.22	- -
		12/16/2015	- -	18.62	- -	0.00	3,643.85	- -
		6/6/2016	- -	18.59	- -	0.00	3,643.88	- -
		12/13/2016	- -	18.35	- -	0.00	3,644.12	- -
		6/7/2017	- -	18.95	- -	0.00	3,643.52	- -
		12/6/2017	- -	18.67	- -	0.00	3,643.80	- -
		3/15/2018	- -	18.92	- -	0.00	3,643.55	- -
		6/6/2018	- -	19.16	- -	0.00	3,643.31	- -
		9/24/2018	- -	18.67	- -	0.00	3,643.80	- -
		12/11/2018	- -	18.55	- -	0.00	3,643.92	- -
		3/13/2019	- -	19.03	- -	0.00	3,643.44	- -
		6/26/2019	- -	19.24	- -	0.00	3,643.23	- -
		9/21/2019	- -	19.39	- -	0.00	3,643.08	- -
		12/3/2019	- -	19.04	- -	0.00	3,643.43	- -
		3/14/2020	- -	18.58	- -	0.00	3,643.89	- -
		6/18/2020	- -	19.24	- -	0.00	3,643.23	- -
		9/15/2020	- -	19.65	- -	0.00	3,642.82	- -
		12/2/2020	- -	19.80	- -	0.00	3,642.67	- -
		3/24/2021	- -	19.89	- -	0.00	3,642.58	- -
		6/8/2021	- -	20.12	- -	0.00	3,642.35	- -
		9/21/2021	- -	18.78	- -	0.00	3,643.69	- -
		12/2/2021	- -	19.42	- -	0.00	3,643.05	- -
		3/23/2022	- -	19.85	- -	0.00	3,642.62	- -
		6/1/2022	- -	20.10	- -	0.00	3,642.37	- -
		9/28/2022	- -	19.92	- -	0.00	3,642.55	- -
		12/7/2022	- -	19.82	- -	0.00	3,642.65	- -
		2/23/2023	- -	19.95	- -	0.00	3,642.52	32.65
		8/14/2023	- -	20.60	- -	0.00	3,641.87	32.40
		10/19/2023	- -	18.98	- -	0.00	3,643.49	- -

Notes:

2023 Q2 fluid level measurements were not collected due to oilfield atmospheric safety conditions.
(1) Only LNAPL present in well
- - = not applicable
ft btoc = feet below top of casing
GW Mon = Groundwater Monitoring
HFS = HF Sinclair
LNAPL = Light non-aqueous phase liquid
TOC = Top of casing

TABLE 2
Summary of Groundwater Analytical Results
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well	Sample Date	Duplicate	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
NM WQCC Groundwater Standards (mg/L)			**0.005**	**0.7**	**1**	**0.62**	**N/A**	**N/A**
MW-1	10/21/2002		<0.002	<0.002	<0.002	<0.006	--	--
	12/27/2002		<0.002	<0.002	<0.002	<0.006	--	--
	5/21/2003		<0.002	<0.002	<0.002	<0.006	--	--
	10/15/2003		<0.002	<0.002	<0.002	<0.006	--	--
	3/15/2004		<0.002	<0.002	<0.002	<0.006	--	--
	10/8/2004		<0.002	<0.002	<0.002	<0.006	--	--
	1/12/2005		<0.002	<0.002	<0.002	<0.006	--	--
	10/24/2005		<0.002	<0.002	<0.002	<0.006	--	--
	3/7/2006		<0.002	<0.002	<0.002	<0.006	--	--
	6/27/2006		<0.002	<0.002	<0.002	<0.006	--	--
	9/7/2006		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	12/19/2006		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	3/13/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	6/21/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	9/21/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	12/6/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	3/4/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	6/3/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	9/23/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	12/22/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	3/12/2009		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	6/23/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	9/8/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/17/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	3/9/2010		<0.0010	<0.0010	<0.0010	<0.0015	--	--
	6/16/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	8/30/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/6/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	3/18/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	6/23/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	10/7/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/8/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/18/2012		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	6/23/2013		<0.0010	<0.0020	<0.0010	<0.0020	--	--
duplicate	6/23/2013	FD	<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/12/2013		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	6/26/2014		<0.0010	<0.0020	<0.0010	<0.0020	--	--
duplicate	6/26/2014	FD	<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/11/2014		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	0.098
	6/11/2015		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.10
	12/15/2015		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.10
	6/7/2016		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	0.157
	12/13/2016		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.125
	6/6/2017		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.104
duplicate	6/6/2017	FD	<0.0010	<0.0020	<0.0010	<0.0020	NA	NA
	12/6/2017		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.202
	3/15/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0763
duplicate	3/15/2018	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0761
	6/5/2018		<0.0010	<0.0020	<0.0010	<0.0020	0.075	<0.0751
	9/24/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.088
	12/11/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0757
	3/12/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.104
	6/26/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.094
	9/22/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.186
	12/3/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.096
	3/14/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.156
	6/18/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.147
	9/15/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.147
	12/2/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.153
	3/24/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.160
	6/8/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	9/21/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.554
	12/2/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.154
	3/23/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.154
	6/1/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.156
	9/28/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.214
	12/7/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.153
	2/23/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.164 C
	8/15/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.154
	10/19/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.152
MW-2	10/21/2002		<0.002	<0.002	<0.002	<0.006	--	--
	12/27/2002		Hydrocarbon product detected - Plugged and Abandoned 01/23/03					

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Monument, Lea County, New Mexico

Monitoring Well	Sample Date	Duplicate	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
NM WQCC Groundwater Standards (mg/L)			**0.005**	**0.7**	**1**	**0.62**	**N/A**	**N/A**
MW-3	10/21/2002		<0.002	<0.002	<0.002	<0.006	--	--
	12/27/2002		<0.002	<0.002	<0.002	<0.006	--	--
	5/21/2003		<0.002	<0.002	<0.002	<0.006	--	--
	10/15/2003		<0.002	<0.002	<0.002	<0.006	--	--
	3/15/2004		**0.010**	<0.002	<0.002	<0.006	--	--
	10/8/2004		**0.019**	<0.002	<0.002	<0.006	--	--
	1/12/2005		**0.043**	<0.002	<0.002	<0.006	--	--
	10/24/2005		**0.080**	<0.002	<0.002	<0.006	--	--
	3/7/2006		**0.0257**	<0.00200	<0.00200	0.0071	--	--
	6/27/2006		<0.00200	<0.00200	<0.00200	<0.00600	--	--
	9/7/2006		**0.0082**	<0.0005	<0.0005	<0.0010	--	--
	12/19/2006		**0.023**	<0.0005	<0.0005	<0.0010	--	--
	3/13/2007		**0.035**	<0.0005	<0.0005	<0.0010	--	--
	6/21/2007		0.0016	<0.0005	<0.0005	<0.0010	--	--
	9/21/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	12/6/2007		0.0006	<0.0005	<0.0005	<0.0010	--	--
	3/4/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	6/3/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	9/23/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	12/22/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	3/12/2009		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	6/23/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	9/8/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/17/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	3/9/2010		<0.0010	<0.0010	<0.0010	<0.0015	--	--
	6/16/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	8/30/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/6/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	3/18/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	6/23/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	10/7/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/8/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/18/2012		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	6/23/2013		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/12/2013		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	6/26/2014		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/11/2014		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.09
duplicate	12/11/2014	FD	<0.0010	<0.0020	<0.0010	<0.0010	0.069	<0.09
	6/11/2015		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.09
	12/15/2015		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.104
	6/7/2016		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.09
	12/13/2016		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.108
	6/6/2017		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.092
	12/6/2017		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.164
	3/15/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0758
	6/5/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0752
duplicate	6/5/2018	FD	<0.0010	<0.0020	<0.0010	<0.0020	0.070	<0.0765
	9/24/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0754
duplicate	9/24/2018	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0766
	12/11/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0758
	3/12/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0754
	6/26/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0796
	9/22/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0741
	12/3/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0744
	3/14/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.151
	6/18/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.149
	9/15/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	12/2/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	3/24/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.149
	6/8/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	9/21/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.554
	12/2/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.153
	3/23/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.156
	6/1/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.156
	9/28/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.180
	12/7/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.147
	2/23/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.177 C
	8/15/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.148
	10/19/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.160

TABLE 2
Summary of Groundwater Analytical Results
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well	Sample Date	Duplicate	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
NM WQCC Groundwater Standards (mg/L)			0.005	0.7	1	0.62	N/A	N/A
MW-5	12/30/2002		<0.002	<0.002	<0.002	<0.006	--	--
	5/21/2003		<0.002	<0.002	<0.002	<0.006	--	--
	10/15/2003		0.045	<0.002	<0.002	<0.006	--	--
	11/6/2003		0.070	<0.002	<0.002	<0.006	--	--
	3/16/2004		0.056	<0.002	<0.002	<0.006	--	--
	10/8/2004		0.055	<0.002	<0.002	<0.006	--	--
	1/12/2005		<0.002	<0.002	<0.002	<0.006	--	--
	10/24/2005		<0.002	<0.002	<0.002	<0.006	--	--
	3/7/2006		<0.00200	<0.00200	<0.00200	<0.00600	--	--
	6/27/2006		<0.00200	<0.00200	<0.00200	<0.00600	--	--
	9/7/2006		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	12/19/2006		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	3/13/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	6/21/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	9/21/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	12/6/2007		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	3/4/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	6/3/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	9/23/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	12/22/2008		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	3/12/2009		<0.0005	<0.0005	<0.0005	<0.0010	--	--
	6/23/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	9/8/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/17/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	3/9/2010		<0.0010	<0.0010	<0.0010	<0.0015	--	--
	6/16/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	8/30/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/6/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	3/18/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	6/23/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	10/7/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/8/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/18/2012		<0.0010	<0.0020	<0.0010	<0.0020	--	--
duplicate	12/18/2012	FD	<0.0010	<0.0020	<0.0010	<0.0020	--	--
	6/23/2013		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/12/2013		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	6/26/2014		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/11/2014		<0.0010	<0.0020	<0.0010	<0.0010	0.0622	<0.10
	6/11/2015		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.09
duplicate	6/11/2015	FD	<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.09
	12/15/2015		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.104
	6/7/2016		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.106
	12/13/2016		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.105
duplicate	12/13/2016	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.08
	6/6/2017		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.114
	12/6/2017		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0757
duplicate	12/6/2017	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.112
	3/15/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0754
	6/5/2018		<0.0010	<0.0020	<0.0010	<0.0020	0.070	<0.0753
	9/24/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0752
	12/11/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0755
	3/12/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0751
duplicate	3/12/2019	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0753
	6/26/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0791
duplicate	6/26/2019	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0783
	9/22/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0747
duplicate	9/22/2019	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0736
	12/3/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0790
duplicate	12/3/2019	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0794
	3/14/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.150
duplicate	3/14/2020	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.149
	6/18/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.150
duplicate	6/18/2020	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.147
	9/15/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.262
duplicate	9/15/2020	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.308
	12/2/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.149
duplicate	12/2/2020	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.151
	3/24/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.150
duplicate	3/24/2021	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	6/8/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
duplicate	6/8/2021	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	9/21/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.554
duplicate	9/21/2021	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.555
	12/2/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.153
duplicate	12/2/2021	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.150

TABLE 2
Summary of Groundwater Analytical Results
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well	Sample Date	Duplicate	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
NM WQCC Groundwater Standards (mg/L)			**0.005**	**0.7**	**1**	**0.62**	**N/A**	**N/A**
MW-5 (continued)	3/23/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.152
duplicate	3/23/2022	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.159
	6/1/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.159
duplicate	6/1/2022	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.154
	9/28/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.163
duplicate	9/28/2022	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.154
	12/7/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.149
duplicate	12/7/2022	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.149
	2/23/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.154 C
duplicate	2/23/2023	FD	<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.157 C
	8/15/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.147
	10/19/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.159
duplicate	10/19/2023	FD	<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.152
MW-6	6/3/2008		0.0027	0.0013	0.049	0.053	--	--
	9/23/2008		0.0020	0.0009	0.047	0.0096	--	--
	12/22/2008		0.0020	0.0006	0.028	0.0031	--	--
	3/12/2009		0.0014	<0.0005	0.018	0.0022	--	--
	6/23/2009		0.0014	<0.0010	0.019	<0.0020	--	--
	9/8/2009		0.0022	<0.0010	0.018	<0.0020	--	--
	12/17/2009		0.0011	<0.0010	0.012	<0.0020	--	--
	3/9/2010		<0.0010	<0.0010	0.017	<0.0015	--	--
	6/16/2010		0.0010	<0.0010	0.016	<0.0020	--	--
	8/30/2010		**0.020**	<0.0010	0.031	<0.0020	--	--
	12/6/2010		**0.0073**	<0.0010	0.020	<0.0020	--	--
	3/18/2011		0.0032	<0.0010	0.016	0.0025	--	--
	6/23/2011		0.0027	<0.0010	0.025	<0.0020	--	--
	10/7/2011		0.0017	<0.0010	0.020	<0.0020	--	--
	12/8/2011		0.0022	<0.0010	0.027	<0.0020	--	--
	12/18/2012		0.00256	<0.0020	0.0844	<0.0020	--	--
	6/23/2013		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/12/2013		0.00474	<0.0020	<0.0010	<0.0020	--	--
	6/26/2014		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/11/2014		**0.0115**	<0.0020	0.00035	<0.0010	1.15	0.499
	6/11/2015		0.00228	<0.0020	<0.0010	<0.0010	<0.10	0.368
	12/15/2015		0.00116	<0.0020	<0.0010	<0.0010	1.66	0.655
	6/7/2016		0.000610	<0.0020	<0.0010	<0.0010	0.779	0.714
	1/24/2017		**0.00825**	<0.0020	<0.0010	<0.0020	1.31	1.41
	6/6/2017		0.00261	<0.0020	<0.0010	<0.0020	1.71	0.951
	12/6/2017		0.00369	<0.0020	<0.0010	<0.0020	0.856	5.27
	3/15/2018		0.00184	<0.0020	<0.0010	<0.0020	1.03	1.18
	6/5/2018		0.000980	<0.0020	<0.0010	<0.0020	1.07	1.30
	9/24/2018		0.000372	<0.0020	<0.0010	<0.0020	1.04	3.09
	12/11/2018		<0.0010	<0.0020	<0.0010	<0.0020	0.883	1.66
	3/12/2019		<0.0010	<0.0020	<0.0010	<0.0020	0.562	0.939
	6/26/2019		<0.0010	<0.0020	<0.0010	<0.0020	0.977	0.567
	9/22/2019		<0.0010	<0.0020	<0.0010	<0.0020	0.862	1.27
	12/3/2019		<0.0010	<0.0020	<0.0010	<0.0020	0.837	1.29
	3/14/2020		<0.0010	<0.0020	<0.0010	<0.0020	0.775	1.08
	6/18/2020		<0.0010	<0.0020	<0.0010	<0.0020	0.444	0.706
	9/15/2020		<0.0010	<0.0020	<0.0010	<0.0020	1.02	1.01
	12/2/2020		<0.0010	<0.0020	<0.0010	<0.0020	0.901	0.785
	3/24/2021		<0.0010	<0.0020	<0.0010	<0.0020	0.950	0.714
	6/8/2021		<0.0010	<0.0020	<0.0010	<0.0020	0.983	0.523
	9/21/2021		<0.0010	<0.0020	<0.0010	<0.0020	0.539	0.822
	12/2/2021		<0.0010	<0.0020	<0.0010	<0.0020	0.550	0.407
	3/23/2022		<0.0010	<0.0020	<0.0010	<0.0020	0.527	0.475
	6/1/2022		<0.0010	<0.0020	<0.0010	<0.0020	0.560	0.855
	9/28/2022		<0.0010	<0.0020	<0.0010	<0.0020	0.456	2.01
	12/7/2022		<0.0010	<0.0020	<0.0010	<0.0020	0.441	0.567
	2/23/2023		<0.00300	<0.00600	<0.00300	<0.00300	0.531	<0.155 C
	8/15/2023		<0.00300	<0.00600	<0.00300	<0.00300	0.203	<0.150
duplicate	8/15/2023	FD	<0.00300	<0.00600	<0.00300	<0.00300	0.235	<0.164
	10/19/2023		<0.00300	<0.00600	<0.00300	<0.00300	0.292	0.464

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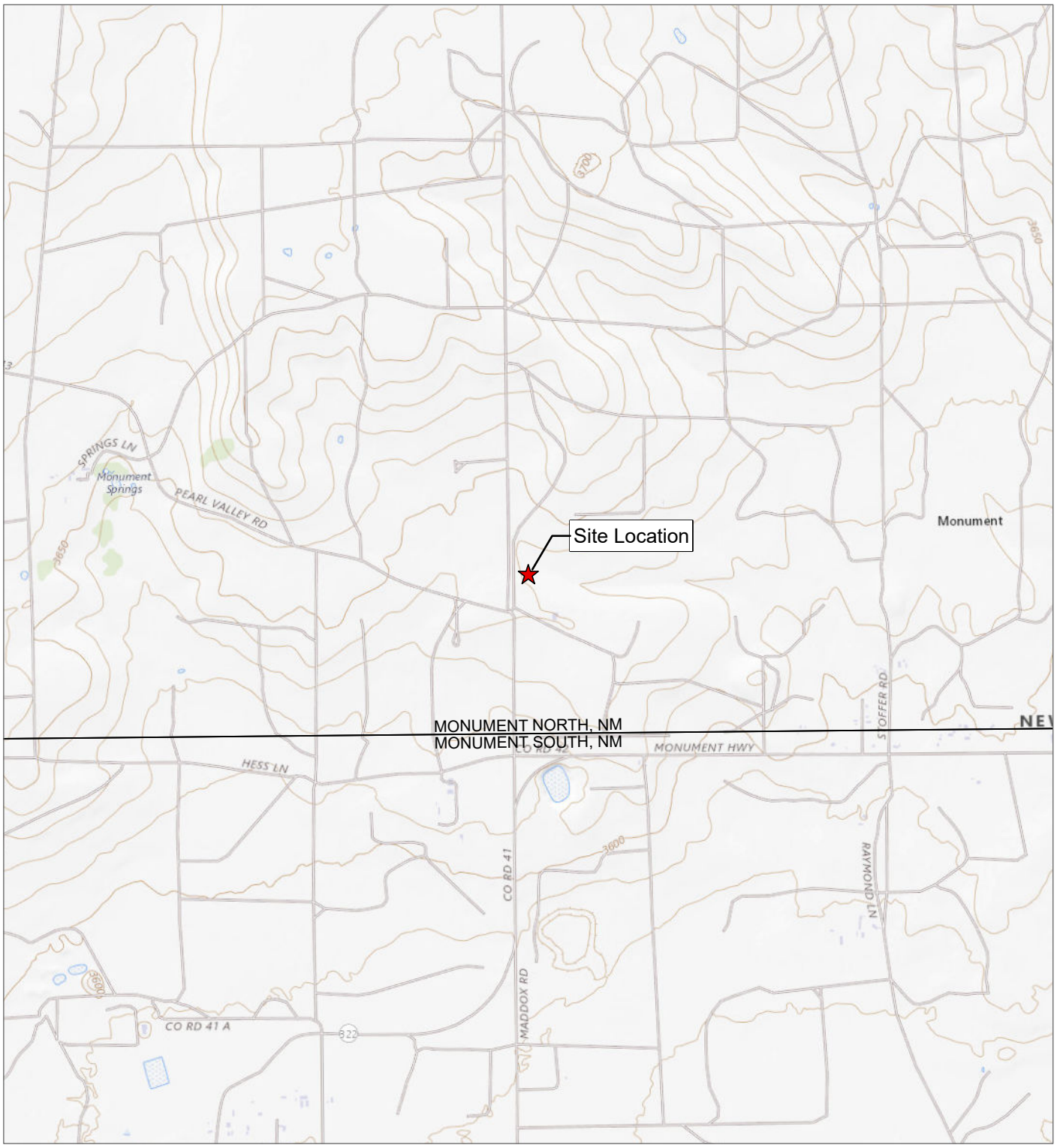
Summary of Groundwater Analytical Results
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico

Monitoring Well	Sample Date	Duplicate	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
NM WQCC Groundwater Standards (mg/L)			**0.005**	**0.7**	**1**	**0.62**	**N/A**	**N/A**
MW-7	6/3/2008		0.0009	0.0006	0.0015	0.0017	--	--
	9/23/2008		0.0005	<0.0005	0.0008	0.0019	--	--
	12/22/2008		<0.0005	<0.0005	0.0008	0.001	--	--
	3/12/2009		<0.0005	<0.0005	0.0009	0.0016	--	--
	6/23/2009		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	9/8/2009		<0.0010	<0.0010	0.0014	<0.0020	--	--
	12/17/2009		<0.0010	<0.0010	0.001	<0.0020	--	--
	3/9/2010		<0.0010	<0.0010	<0.0010	<0.0015	--	--
	6/16/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	8/30/2010		0.0017	<0.0010	0.0018	<0.0020	--	--
	12/6/2010		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	3/18/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	6/23/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	10/7/2011		<0.0010	<0.0010	<0.0010	<0.0020	--	--
	12/8/2011		<0.0010	<0.0010	0.0017	<0.0020	--	--
	12/18/2012		0.00024	<0.0020	<0.0010	<0.0020	--	--
	6/23/2013		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/12/2013		0.00032	<0.0020	0.00037	<0.0020	--	--
duplicate	12/12/2013	FD	0.00031	<0.0020	0.00039	<0.0020	--	--
	6/26/2014		<0.0010	<0.0020	<0.0010	<0.0020	--	--
	12/11/2014		0.000400	<0.0020	<0.0010	<0.0010	0.115	<0.10
duplicate	12/11/2014	FD	0.000380	<0.0020	<0.0010	<0.0010	0.073	<0.09
	6/11/2015		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.10
	12/15/2015		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.10
	6/7/2016		<0.0010	<0.0020	<0.0010	<0.0010	<0.10	<0.10
	12/13/2016		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.127
	6/6/2017		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.159
	12/6/2017		<0.0010	<0.0020	<0.0010	<0.0020	0.089	0.456
	3/15/2018		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0756
	6/5/2018		<0.0010	<0.0020	<0.0010	<0.0020	0.070	<0.0761
	9/24/2018		<0.0010	<0.0020	<0.0010	<0.0020	0.070	0.101
	12/11/2018		<0.0010	<0.0020	<0.0010	<0.0020	0.077	<0.0753
duplicate	12/11/2018	FD	<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.0757
	3/12/2019		<0.0010	<0.0020	<0.0010	<0.0020	0.124	<0.0757
	6/26/2019		<0.0010	<0.0020	<0.0010	<0.0020	0.095	<0.0794
	9/22/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.154
	12/3/2019		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.155
	3/14/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	6/18/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	9/15/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.149
	12/2/2020		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.149
	3/24/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.152
	6/8/2021		<0.0010	<0.0020	<0.0010	<0.0020	0.101	<0.148
	9/21/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.555
	12/2/2021		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.155
	3/23/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.201
	6/1/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.156
	9/28/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	0.473
	12/7/2022		<0.0010	<0.0020	<0.0010	<0.0020	<0.06	<0.148
	2/23/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.156 C
	8/15/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.149
	10/19/2023		<0.00300	<0.00600	<0.00300	<0.00300	<0.0600	<0.159

NOTES:
BOLD = Exceeds New Mexico Water Quality Control Commission (NM WQCC) Groundwater Standard for human health exposure, 20.6.2.3103
N/A = Not Applicable, no NM WQCC Groundwater Standard established for constituent.
mg/L = milligrams/Liter
FD = Field Duplicate
< = Not reported above laboratory reporting limit (or after 2023, the laboratory method detection limit)
-- = Not Analyzed
C = Sample extracted five days outside of hold time due to laboratory error (results considered estimated, biased low)
TPH-GRO = total petroleum hydrocarbons - gasoline range organics (Method 8015V)
TPH-DRO = total petroleum hydrocarbons - diesel gasoline range organics (Method 8015D)
Benzene, ethylbenzene, toluene, and total xylenes analyzed by Method 8260C
Analytical data from 2002 to 2022 were provided by a previous consultant and could not be confirmed against the original data packages. Benzene, ethylbenzene, toluene, and total xylenes originally reported in micrograms per liter.

FIGURES



SITE LOCATION

USGS QUADRANGLE BOUNDARY

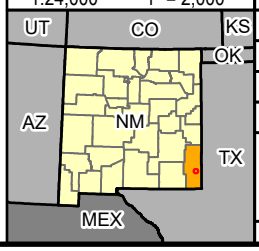
BASE MAP: USA TOPO MAPS MAP SERVICE, MONUMENT NORTH, NM

N

0 1,000 2,000

FEET

1:24,000 1" = 2,000'



PROJECT:
HF SINCLAIR CORPORATION
MONUMENT, LEA COUNTY, NEW MEXICO
NORTH MONUMENT 6-INCH GATHERING LINE, AP #34

TITLE:
SITE LOCATION MAP

DRAWN BY:	S. RAY	PROJ. NO.:	574868.0000.0000
CHECKED BY:	A. ELJURI		
APPROVED BY:	T. GLASS		**FIGURE 1**
DATE:	MARCH 2024		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: NORTH MONUMENT 2024

APPROXIMATE LOCATION OF UNDERGROUND LINE

FENCE LINE

BOREHOLE WELL LOCATION

MONITORING WELL LOCATION

RECOVERY/BOREHOLE WELL LOCATION

NOTES:
1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, DECEMBER 2021.

1:1,200

1" = 100'

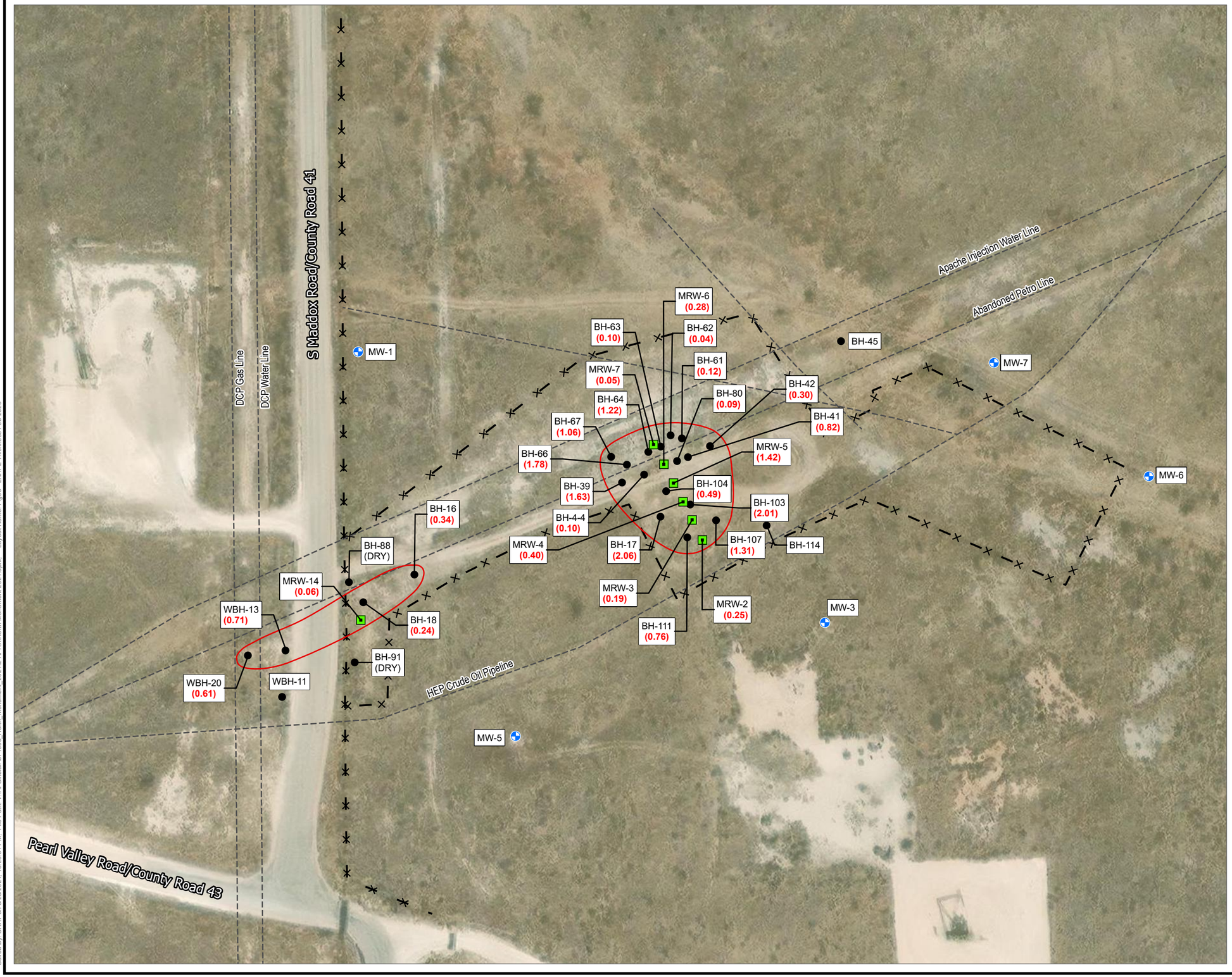
0 50 100 FEET

PROJECT:	HF SINCLAIR CORPORATION MONUMENT, LEA COUNTY, NEW MEXICO NORTH MONUMENT 6-INCH GATHERING LINE, AP #34
TITLE:	SITE MAP
DRAWN BY:	S. RAY
CHECKED BY:	D. HELBERT
APPROVED BY:	T. GLASS
DATE:	MARCH 2024
PROJ. NO.:	574868.0000.0000
	FIGURE 2

505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: North Monument 2024.aprx

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet: Map Rotation: 0
Saved By BTRACY on 3/29/2024 at 08:07:07 AM: File Path: T:\1 PROJECTS\HF Sinclair\574868.North_Monument_2024\2-APRX\North Monument 2024.aprx: Layout Name: Fig02 - Site Map



APPROXIMATE LOCATION OF UNDERGROUND LINE

FENCE LINE

BOREHOLE WELL LOCATION

MONITORING WELL LOCATION

RECOVERY/BOREHOLE WELL LOCATION

(2.06) LNAPL THICKNESS IN FEET

LNAPL EXTENT

NOTES:
1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, DECEMBER 2021.
2. WELLS WITH NO LNAPL THICKNESS SHOWN CONTAINED ONLY MEASUREABLE GROUNDWATER.

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
HF SINCLAIR CORPORATION
MONUMENT, LEA COUNTY, NEW MEXICO
NORTH MONUMENT 6-INCH GATHERING LINE, AP #34

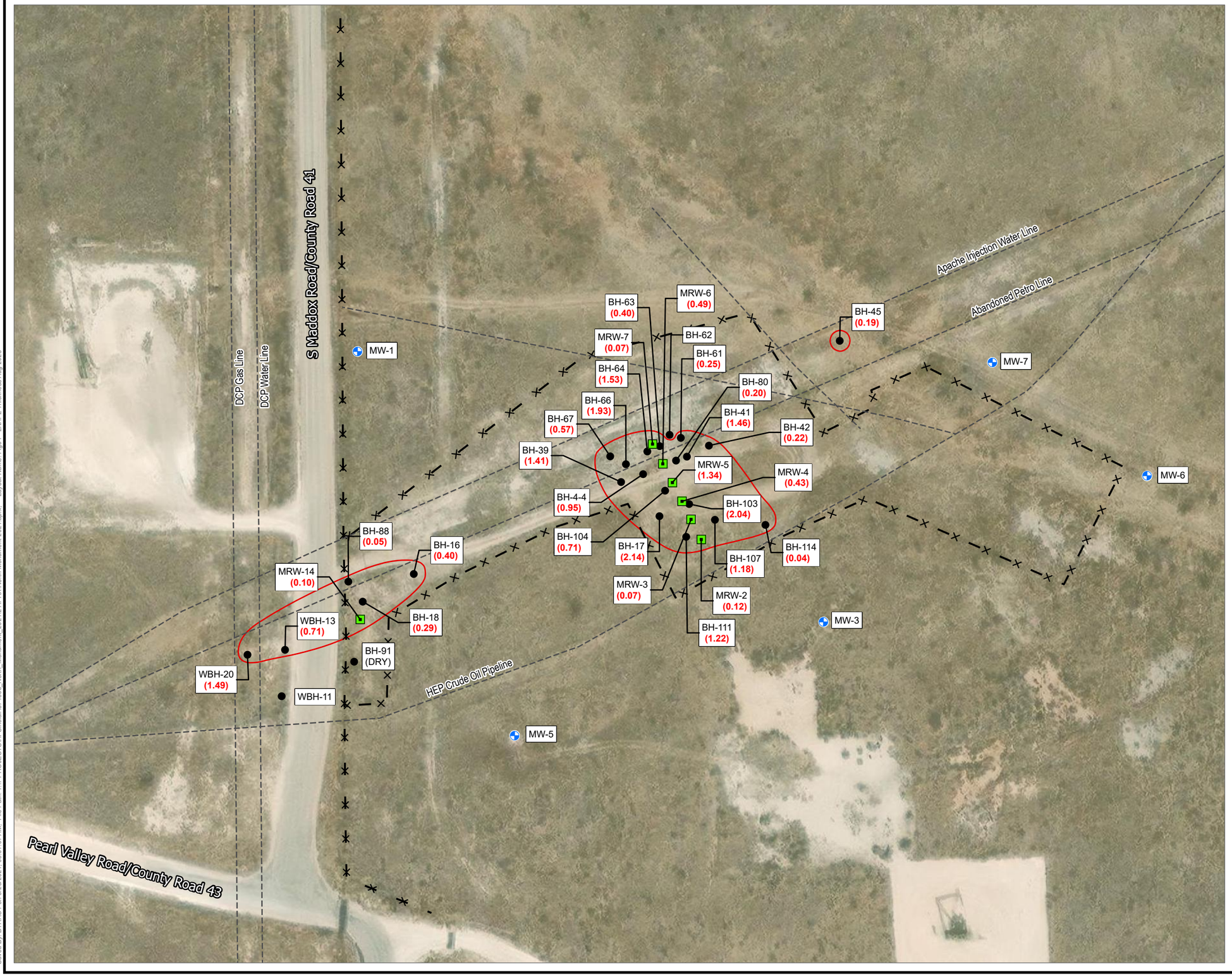
TITLE:
LNAPL THICKNESS MAP - FEBRUARY 2023

DRAWN BY:	S. RAY	PROJ. NO.:	574868.0000.0000
CHECKED BY:	A. ELJURI		**FIGURE 3**
APPROVED BY:	T. GLASS		
DATE:	MARCH 2024		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: North Monument 2024.aprx

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet; Map Rotation: 0
Saved By: SRAY on 3/25/2024 1:25:54 PM; File Path: V:\HFSinclair\574868_North_Monument_2024\2-APRX\North Monument 2024.aprx; Layout Name: Fig03 - LNAPL Thickness Feb 2023



- APPROXIMATE LOCATION OF UNDERGROUND LINE
- FENCE LINE
- BOREHOLE WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY/BOREHOLE WELL LOCATION
- (1.93) LNAPL THICKNESS IN FEET
- LNAPL EXTENT

NOTES:
1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, DECEMBER 2021.
2. WELLS WITH NO LNAPL THICKNESS SHOWN CONTAINED ONLY MEASUREABLE GROUNDWATER.

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
HF SINCLAIR CORPORATION
MONUMENT, LEA COUNTY, NEW MEXICO
NORTH MONUMENT 6-INCH GATHERING LINE, AP #34

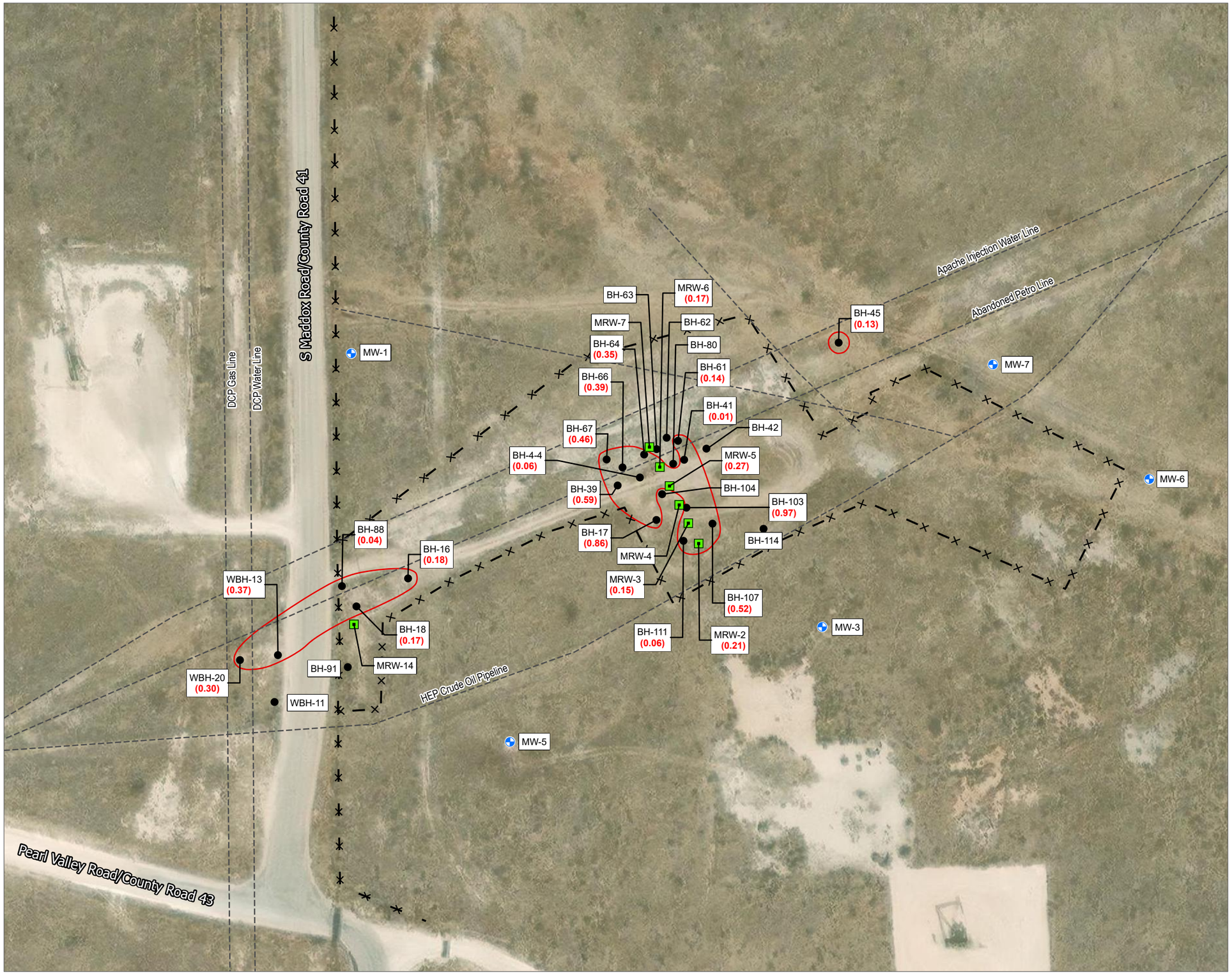
TITLE:
LNAPL THICKNESS MAP - AUGUST 2023

DRAWN BY:	S. RAY	PROJ. NO.:	574868.0000.0000
CHECKED BY:	A. ELJURI		**FIGURE 4**
APPROVED BY:	T. GLASS		
DATE:	MARCH 2024		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: North Monument 2024.aprx

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet: Map Rotation: 0
Saved By: ETRACY on 3/29/2024 - 08:07:07 AM - File Path: T:\PROJECTS\HFSinclair\574868_North_Monument_2024\2-APRX\North Monument 2024.aprx - Layout Name: Fig04 - LNAPL Thickness Aug 2023



- APPROXIMATE LOCATION OF UNDERGROUND LINE
- FENCE LINE
- BOREHOLE WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY/BOREHOLE WELL LOCATION
- (0.86) LNAPL THICKNESS IN FEET
- LNAPL EXTENT

NOTES:
1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, DECEMBER 2021.
2. WELLS WITH NO LNAPL THICKNESS SHOWN CONTAINED ONLY MEASUREABLE GROUNDWATER.

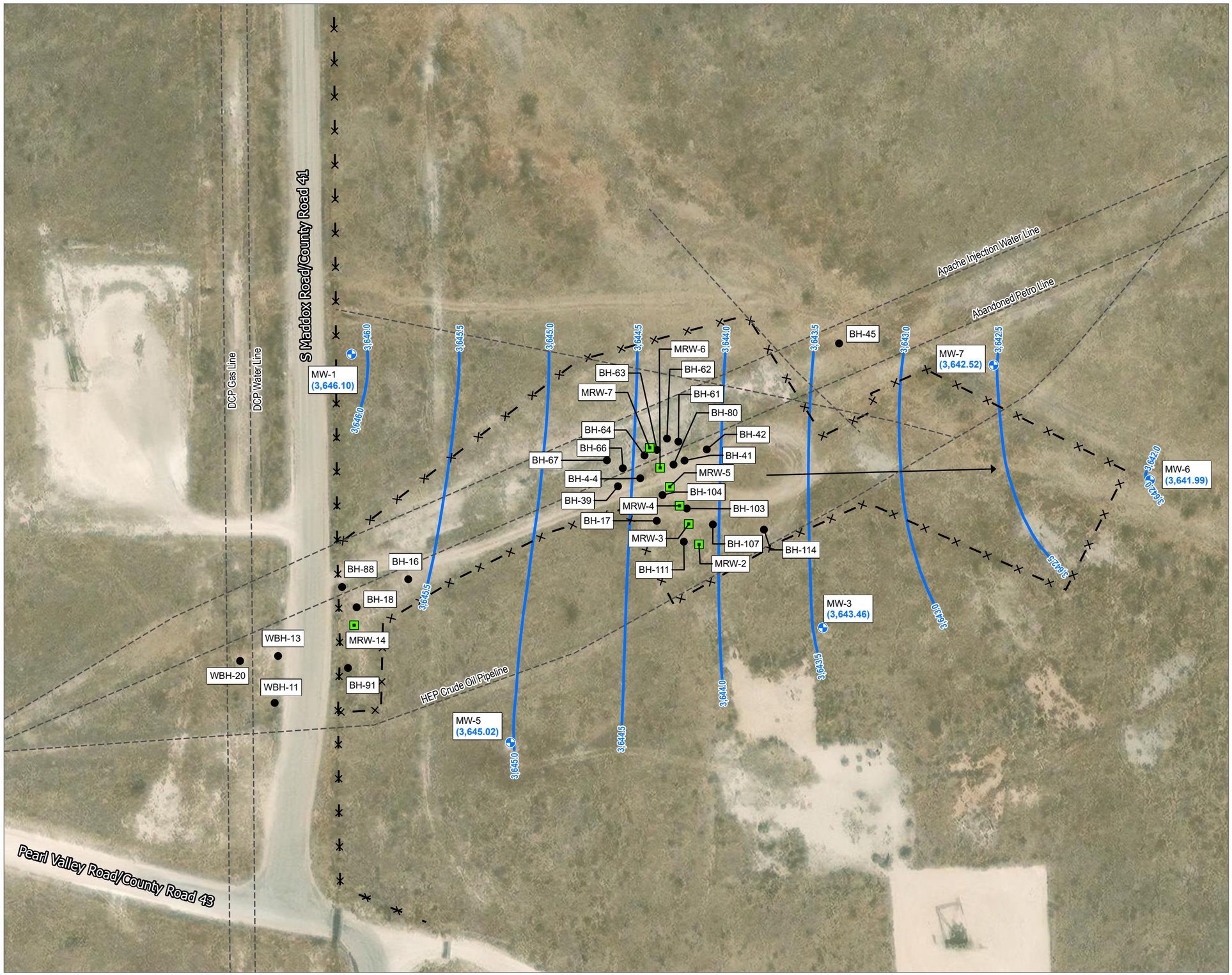
1:1,200
1" = 100'
0 50 100 FEET

PROJECT:	HF SINCLAIR CORPORATION MONUMENT, LEA COUNTY, NEW MEXICO NORTH MONUMENT 6-INCH GATHERING LINE, AP #34
TITLE:	LNAPL THICKNESS MAP - OCTOBER 2023
DRAWN BY: S. RAY	PROJ. NO.: 574868.0000.0000
CHECKED BY: A. ELJURI	FIGURE 5
APPROVED BY: T. GLASS	
DATE: MARCH 2024	

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: North Monument 2024.aprx

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet, Map Rotation: 0
Saved By: ATRACY on 3/29/2024, 08:07:07 AM, File Path: T:\1-PROJECTS\HFSinclair\574868_North_Monument_2024\3-A\PRX\North Monument 2024.aprx
Layout Name: Fig05 - LNAPL Thickness Oct 2023



- APPROXIMATE LOCATION OF UNDERGROUND LINE
- FENCE LINE
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER POTENTIOMETRIC CONTOUR
- BOREHOLE WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY/BOREHOLE WELL LOCATION
- (3,643.46) GROUNDWATER ELEVATION, FEET ABOVE MEAN SEA LEVEL

NOTES:
1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, DECEMBER 2021.

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
HF SINCLAIR CORPORATION
MONUMENT, LEA COUNTY, NEW MEXICO
NORTH MONUMENT 6-INCH GATHERING LINE, AP #34

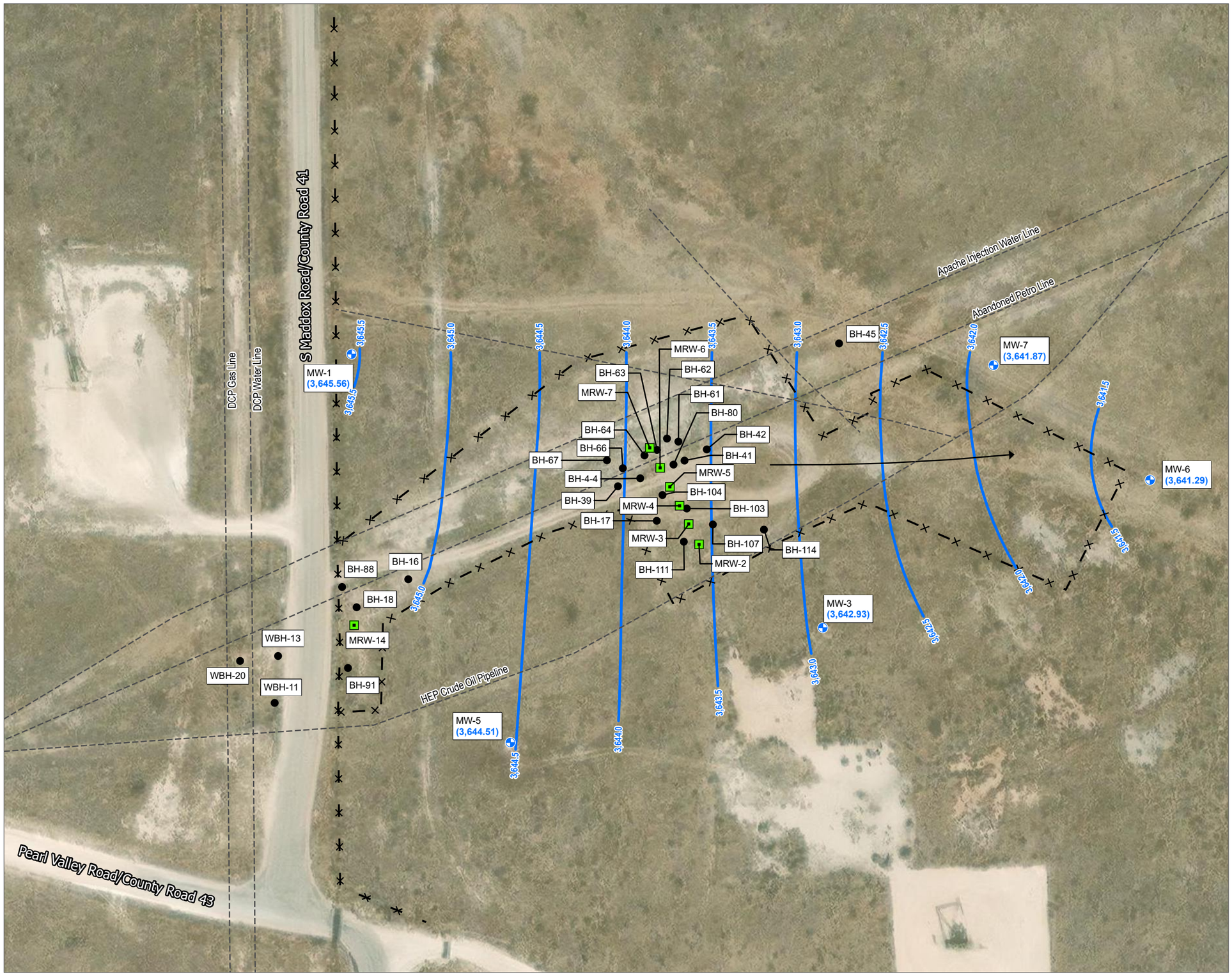
TITLE:
GROUNDWATER POTENTIOMETRIC SURFACE MAP - FEBRUARY 2023

DRAWN BY:	S. RAY	PROJ. NO.:	574868.0000.0000
CHECKED BY:	A. ELJURI		**FIGURE 6**
APPROVED BY:	T. GLASS		
DATE:	MARCH 2024		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: North Monument 2024.aprx

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet; Map Rotation: 0
Saved By: SRAY on 3/29/2024 - 8:25:54 PM - File Path: V:\PS Sinclair\574868.North_Monument_2024\2-APRX\North Monument 2024.aprx - Layout Name: Fig06 - GW Contours Feb 2023



- APPROXIMATE LOCATION OF UNDERGROUND LINE
- FENCE LINE
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER POTENTIOMETRIC CONTOUR
- BOREHOLE WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY/BOREHOLE WELL LOCATION
- (3,645.56) GROUNDWATER ELEVATION, FEET ABOVE MEAN SEA LEVEL

NOTES:
1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, DECEMBER 2021.

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
HF SINCLAIR CORPORATION
MONUMENT, LEA COUNTY, NEW MEXICO
NORTH MONUMENT 6-INCH GATHERING LINE, AP #34

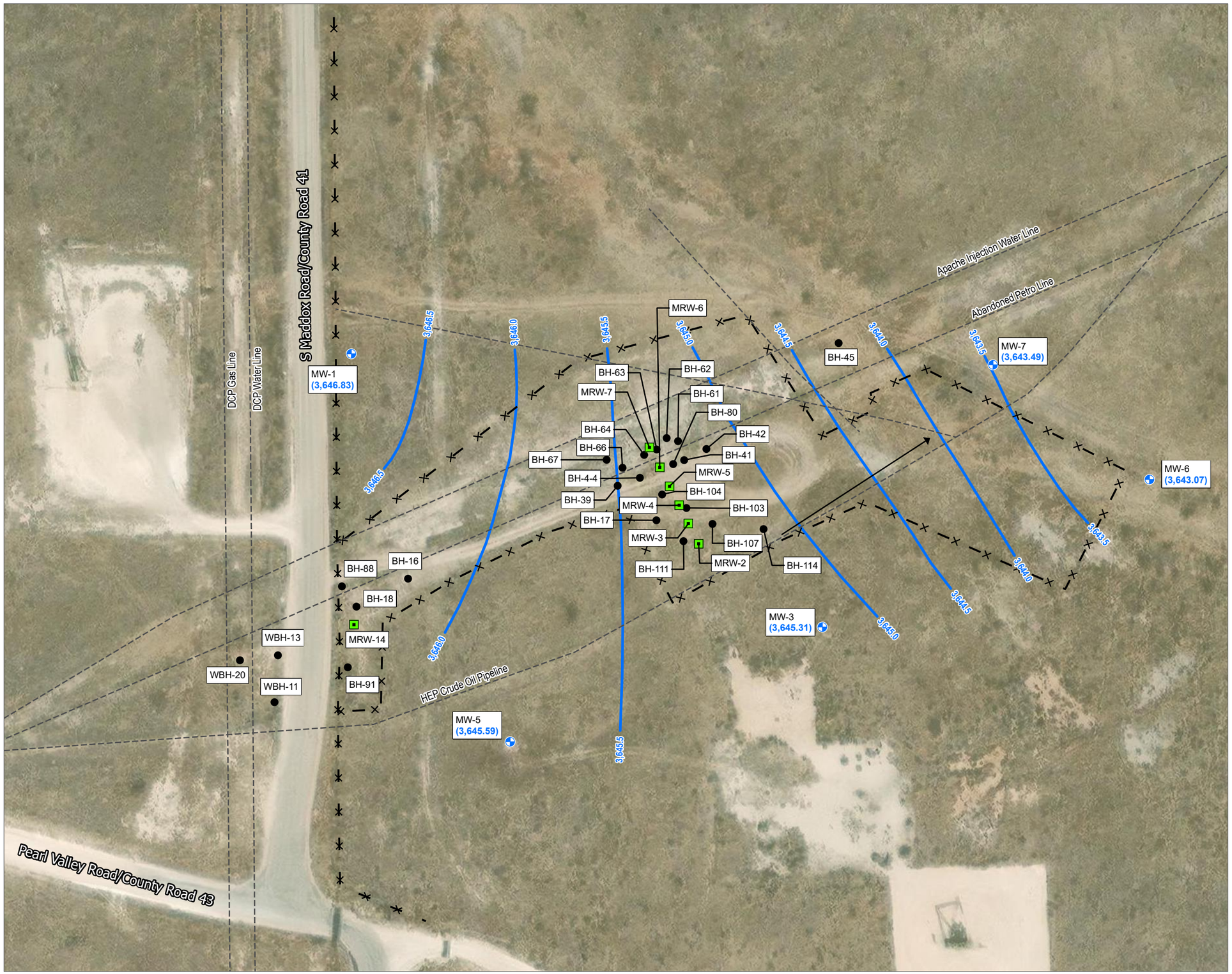
TITLE:
GROUNDWATER POTENTIOMETRIC SURFACE MAP - AUGUST 2023

DRAWN BY:	S. RAY	PROJ. NO.:	574868.0000.0000
CHECKED BY:	A. ELJURI		**FIGURE 7**
APPROVED BY:	T. GLASS		
DATE:	MARCH 2024		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: North Monument 2024.aprx

Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet; Map Rotation: 0
Saved By: SRAY on 3/29/2024 - 8:25:54 PM - File Path: V:\PS\Sinclair\574868.North_Monument_2024\2-APRX\North Monument 2024.aprx - Layout Name: Fig07 - GW Contours Aug 2023



- APPROXIMATE LOCATION OF UNDERGROUND LINE
- FENCE LINE
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER POTENTIOMETRIC CONTOUR
- BOREHOLE WELL LOCATION
- MONITORING WELL LOCATION
- RECOVERY/BOREHOLE WELL LOCATION
- (3,646.83) GROUNDWATER ELEVATION, FEET ABOVE MEAN SEA LEVEL

NOTES:
1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, DECEMBER 2021.

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
HF SINCLAIR CORPORATION
MONUMENT, LEA COUNTY, NEW MEXICO
NORTH MONUMENT 6-INCH GATHERING LINE, AP #34

TITLE:
GROUNDWATER POTENTIOMETRIC SURFACE MAP - OCTOBER 2023

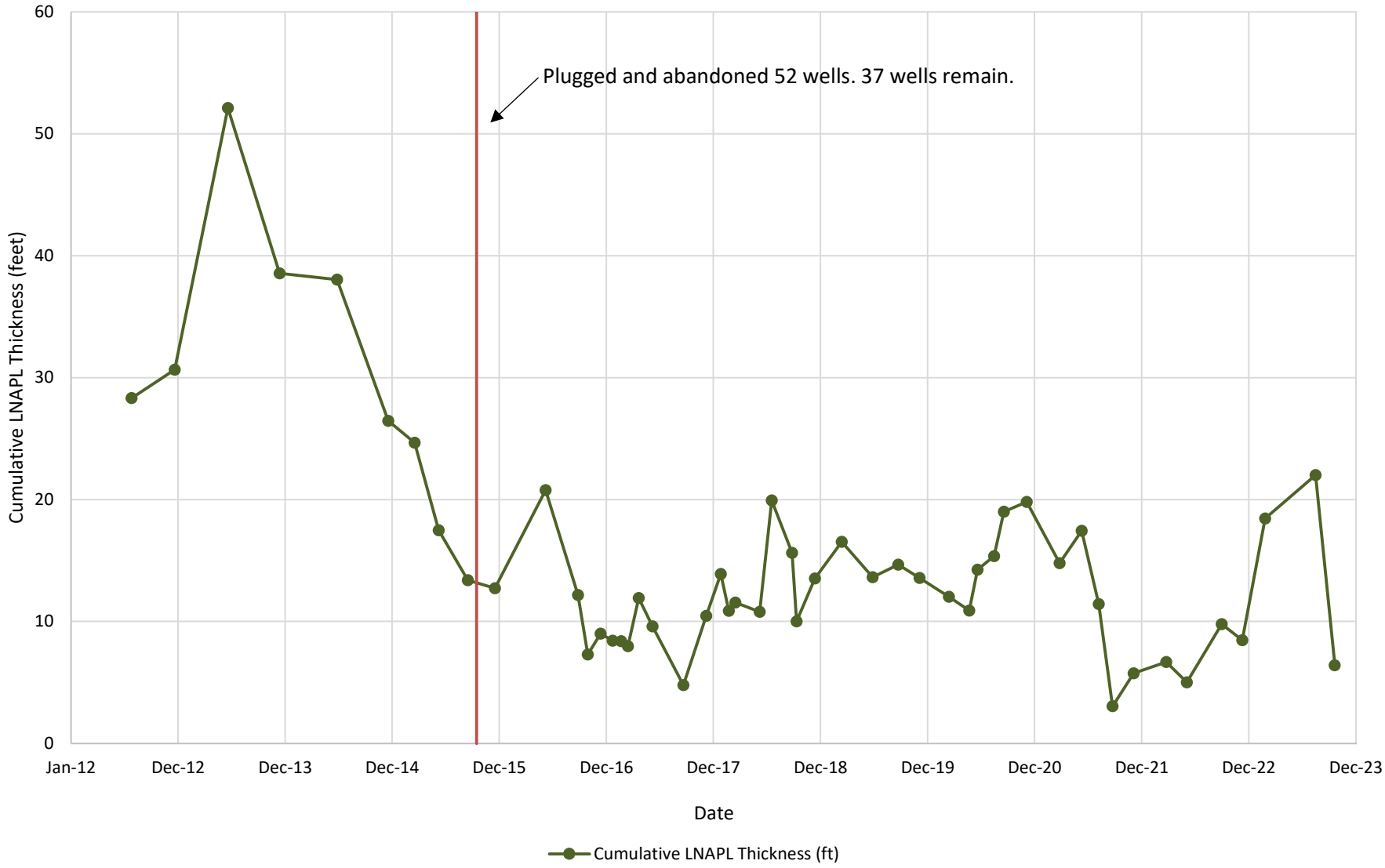
DRAWN BY:	S. RAY	PROJ. NO.:	574868.0000.0000
CHECKED BY:	A. ELJURI		**FIGURE 8**
APPROVED BY:	T. GLASS		
DATE:	MARCH 2024		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: North Monument 2024.aprx

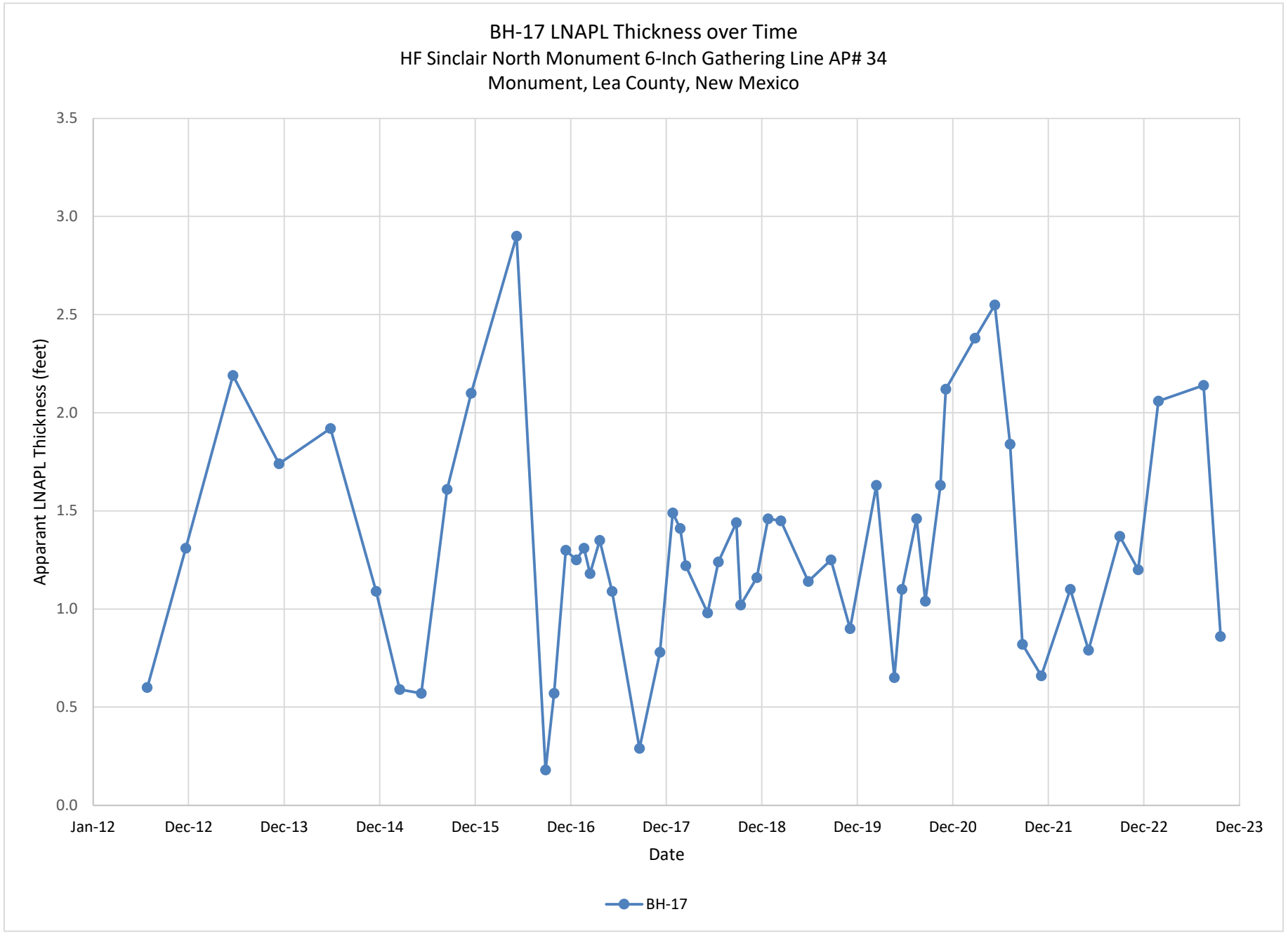
Coordinate System: NAD 1983 StatePlane New Mexico East FIPS 3001 Feet; Map Rotation: 0
Saved By: SRAY on 3/29/2024 - 8:25:54 PM - File Path: V:\HFSinclair\574868_North_Monument_2024\2-APRX\North Monument 2024.aprx - Layout Name: Fig08 - GW Contours Oct 2023

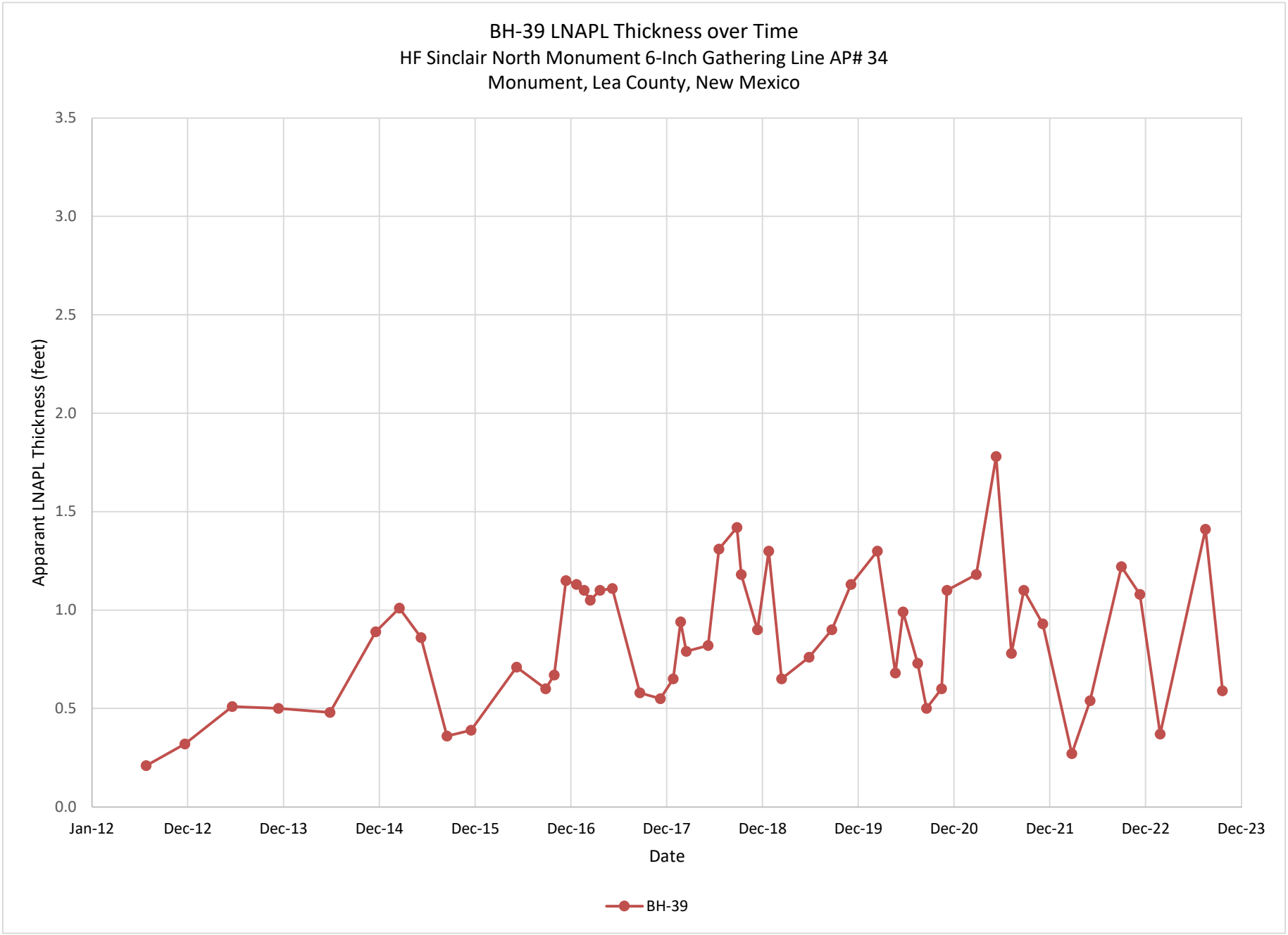
Figure 9
Cumulative LNAPL Thickness Over Time
HF Sinclair North Monument 6-Inch Gathering Line AP# 34
Monument, Lea County, New Mexico

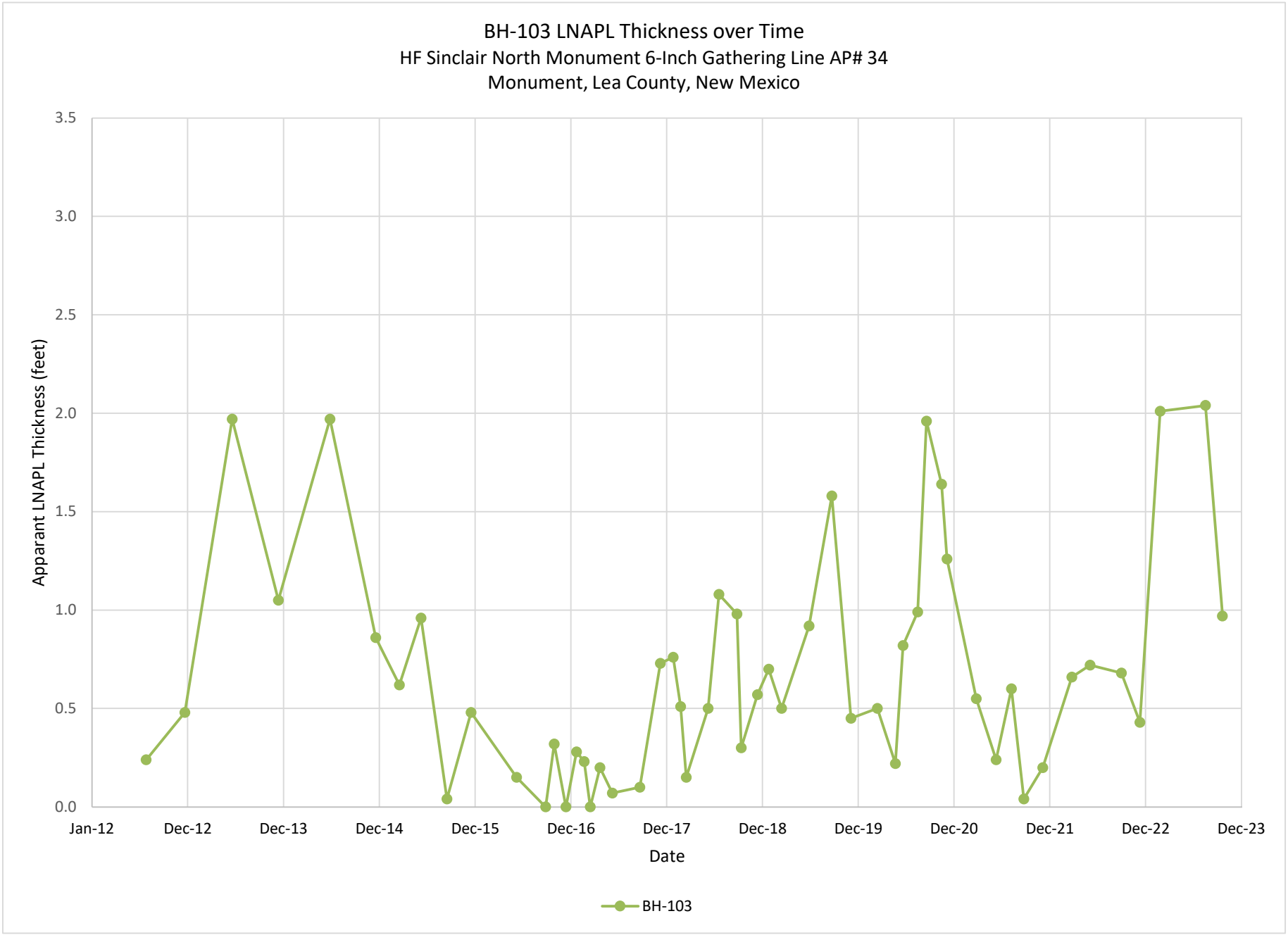


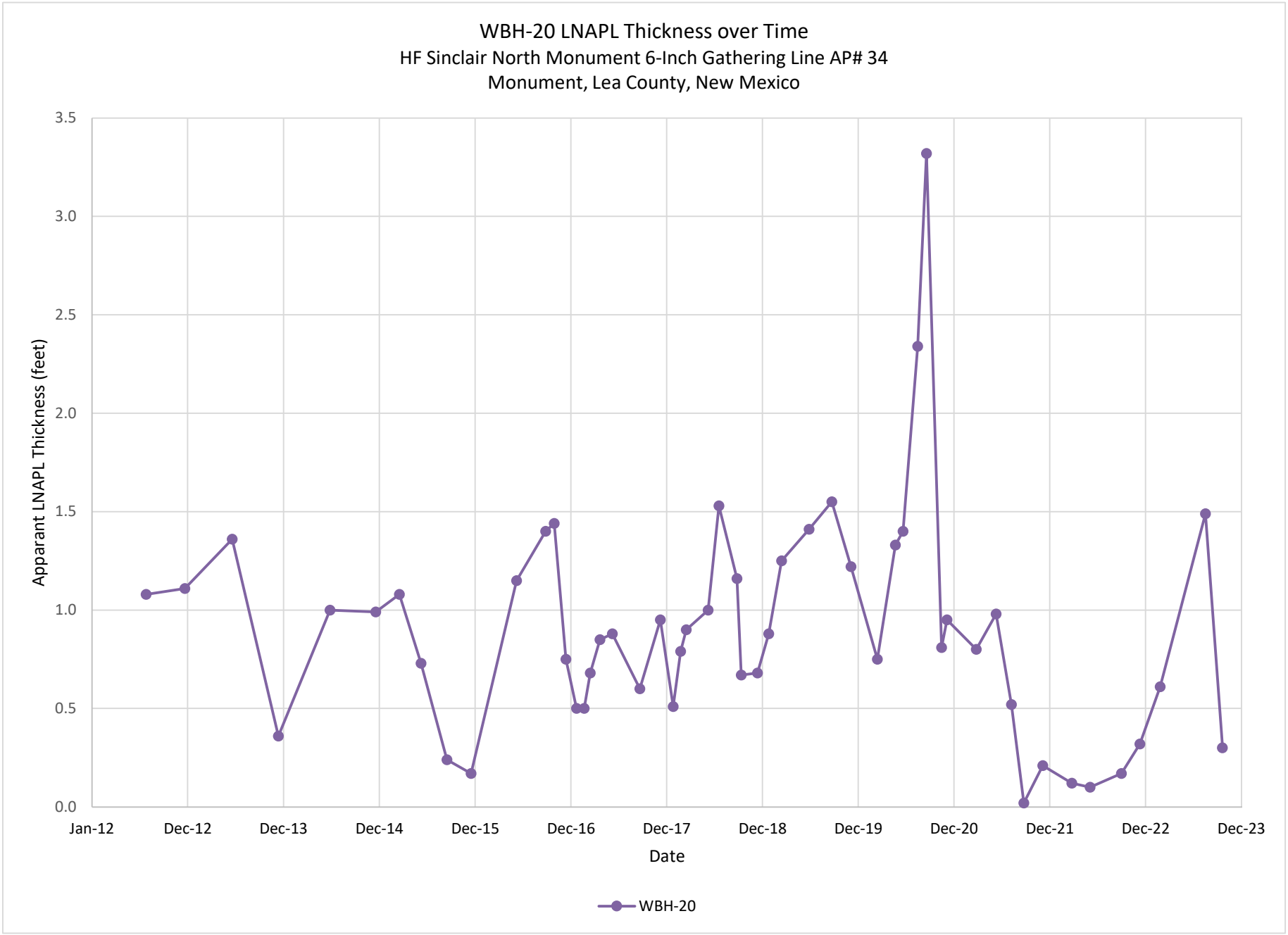
APPENDIX A

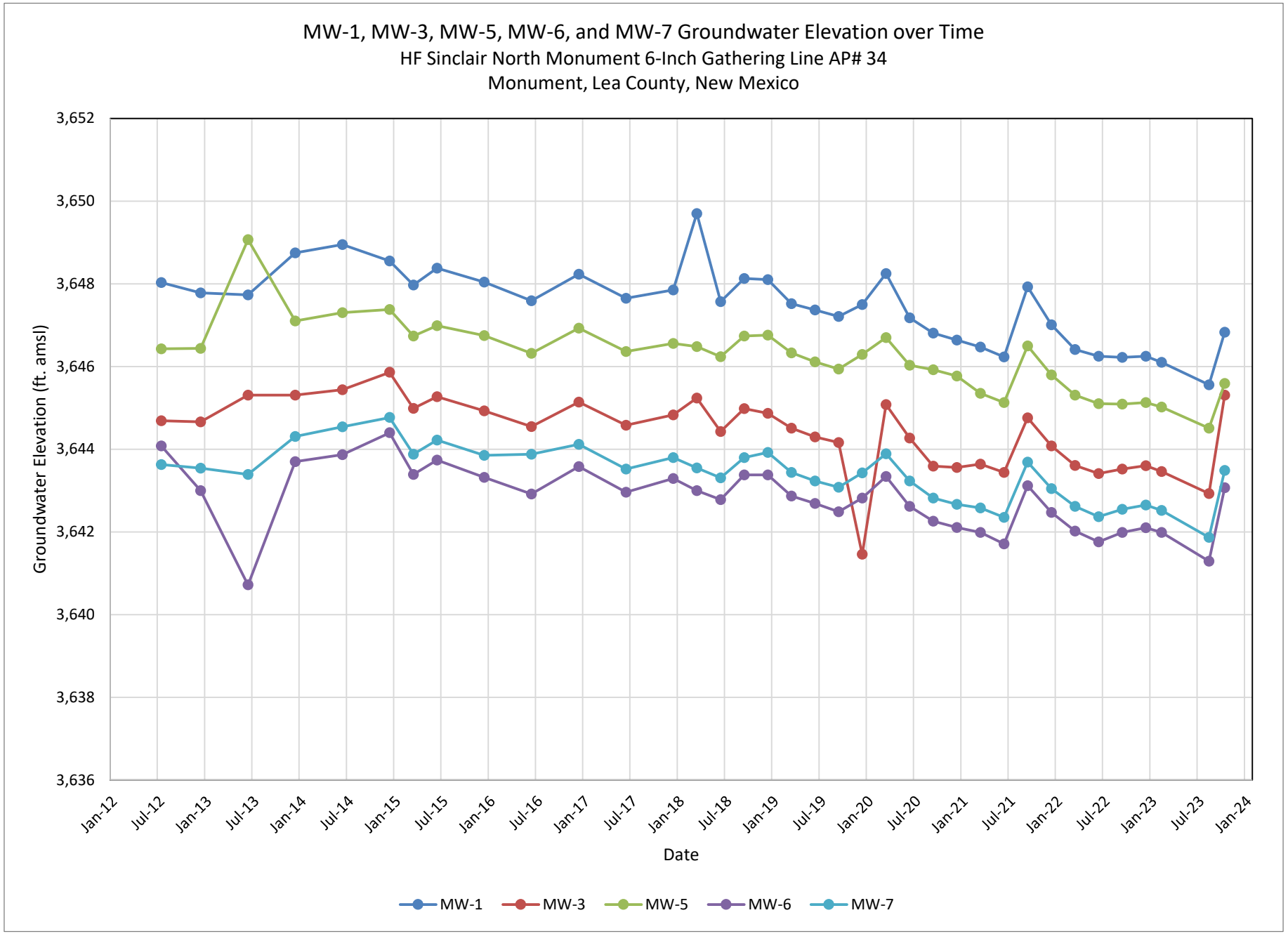
GRAPHS


BH-17 LNAPL Thickness over Time
HF Sinclair North Monument 6-Inch Gathering Line AP# 34
Monument, Lea County, New Mexico
Apparant LNAPL Thickness (feet)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan-12
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Dec-20
Dec-21
Dec-22
Dec-23
Date
BH-17


BH-39 LNAPL Thickness over Time
HF Sinclair North Monument 6-Inch Gathering Line AP# 34
Monument, Lea County, New Mexico
Apparant LNAPL Thickness (feet)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan-12
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Dec-20
Dec-21
Dec-22
Dec-23
Date
BH-39


BH-103 LNAPL Thickness over Time
HF Sinclair North Monument 6-Inch Gathering Line AP# 34
Monument, Lea County, New Mexico
Apparant LNAPL Thickness (feet)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan-12
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Dec-20
Dec-21
Dec-22
Dec-23
Date
BH-103


WBH-20 LNAPL Thickness over Time
HF Sinclair North Monument 6-Inch Gathering Line AP# 34
Monument, Lea County, New Mexico
Apparant LNAPL Thickness (feet)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan-12
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Dec-20
Dec-21
Dec-22
Dec-23
Date
WBH-20


MW-1, MW-3, MW-5, MW-6, and MW-7 Groundwater Elevation over Time
HF Sinclair North Monument 6-Inch Gathering Line AP# 34
Monument, Lea County, New Mexico
Groundwater Elevation (ft. amsl)
3,652
3,650
3,648
3,646
3,644
3,642
3,640
3,638
3,636
Jan-12
Jul-12
Jan-13
Jul-13
Jan-14
Jul-14
Jan-15
Jul-15
Jan-16
Jul-16
Jan-17
Jul-17
Jan-18
Jul-18
Jan-19
Jul-19
Jan-20
Jul-20
Jan-21
Jul-21
Jan-22
Jul-22
Jan-23
Jul-23
Jan-24
Date
MW-1
MW-3
MW-5
MW-6
MW-7

APPENDIX B

LABORATORY REPORTS AND DATA REVIEW CHECKLISTS

March 10, 2023

Dana Helbert
TRC Environmental Corp.
505 East Huntland Drive #250
Austin, Texas 78752
TEL: (512) 684-3176
FAX

Order No.: 2302269

RE: HFS N Monument

Dear Dana Helbert:

DHL Analytical, Inc. received 8 sample(s) on 2/25/2023 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: T104704211-22-28

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: EMAIL:
DATA REPORTED TO: DANA Helbert
ADDITIONAL REPORT COPIES TO: Mike Holder

DATE: 2/24/23
PO#: 196790
PROJECT LOCATION OR NAME: HFS N Monument
CLIENT PROJECT # 524199 COLLECTOR: Patrick Chavez

LABORATORY USE ONLY
DHL WORKORDER #: 2302269

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

Lab Use Only: 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	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 ☐	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
MW-6	01	2/23/23	1235	GW		8	X					X		X														
MW-7	02	"	1320	"		8	X					X		X														
MW-1	03	"	1410	"		8	X					X		X														
MW-3	04	"	1515	"		8	X					X		X														
MW-5	05	"	1605	"		8	X					X		X														
EB-1-2-23-23	06		1645	"		8	X					X		X														
Duplicate-1	07			"		8	X					X		X														
Trip Blank	08											X																

Relinquished By: (Sign)	DATE/TIME	Received by:
[signature]	2/24/23	[signature]
[signature]	1:10pm 2/25/23	[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 _____ ☐

LABORATORY USE ONLY
RECEIVING TEMP (°C): 5.2° THERM #: 78
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☒ NOT USED
CARRIER: ☐ LSO ☒ FEDEX ☐ UPS ☐ COURIER ☐ OTHER
☐ HAND DELIVERED

☐ **DHL DISPOSAL @ 5.00 each** ☐ **Return**

DHL COC REV 3 | MAR 2021

ORIGIN ID:MAFA (432) 234-2134
PATRICK DAVID GARCIA

1301 E MOCKINGBIRD LN APT 1326

MIDLAND, TX 79705
UNITED STATES US

SHIP DATE: 24FEB23
ACTWGT: 46.30 LB
CAD: 6991681/SSFO2401
DIMS: 25x14x14 IN

BILL CREDIT CARD

Part # 156297-435-RRDR8 EXP 02/24

TO LOGIN
DHL ANALYTICIAL
2300 DOUBLE CREEK DRIVE

ROUND ROCK TX 78664
(512) 398-8222 REF:
INV:
PO: DEPT:

FedEx Express

REL# 3785346

FedEx
TRK# 0201 3950 1427 9221

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 BSMA

78664
TX-US
AUS

3784687 24Feb2023 MAFA 581G1/B802/C0B8

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **TRC Environmental Corp.** Date Received: **2/25/2023**

Work Order Number: **2302269** Received by: **CF**

Checklist completed by: _____ 2/27/2023 Reviewed by: SH 2/27/2023

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 5.2

Seal Intact NP

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:** *10-Mar-23*

CLIENT: TRC Environmental Corp.
Project: HFS N Monument
Lab Order: 2302269

CASE NARRATIVE

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

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

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following.

For DRO Analysis, the samples were extracted on March 2, 2023 and analyzed March 6th and 7th. Upon review of the data, it was determined the samples were inadvertently spiked with the Diesel standard during extraction. The remaining container for the samples was then used for re-preparation/extraction and re-analysis, on March 8, 2023. The method specified holdtime for the extraction for DRO analysis is seven days; the samples were re-extracted five days outside of the method specified holdtime. These results are "C" flagged in the Analytical Data Report. No further corrective action was taken.

For DRO Analysis, the recovery of surrogate Isopropylbenzene for Method Blank-109170 was slightly below the method control limits. This is flagged accordingly in the QC Summary Report. The remaining surrogate for this sample was within method control limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: *10-Mar-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-6
Project:	HFS N Monument	**Lab ID:**	2302269-01
Project No:	524199	**Collection Date:**	02/23/23 12:35 PM
Lab Order:	2302269	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	0.693	0.161	0.201	C	mg/L	1	03/08/23 10:05 PM
Surr: Isopropylbenzene	35.0	0	25-124		%REC	1	03/08/23 10:05 PM
Surr: Octacosane	112	0	51-124		%REC	1	03/08/23 10:05 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	0.531	0.0600	0.100		mg/L	1	03/06/23 11:55 AM
Surr: Tetrachlorethene	101	0	74-138		%REC	1	03/06/23 11:55 AM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 07:18 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 07:18 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	02/27/23 07:18 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 07:18 PM
Surr: 1,2-Dichloroethane-d4	88.5	0	72-119		%REC	1	02/27/23 07:18 PM
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	02/27/23 07:18 PM
Surr: Dibromofluoromethane	97.2	0	85-115		%REC	1	02/27/23 07:18 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	02/27/23 07:18 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: *10-Mar-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-7
Project:	HFS N Monument	**Lab ID:**	2302269-02
Project No:	524199	**Collection Date:**	02/23/23 01:20 PM
Lab Order:	2302269	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.156	0.156	0.195	C	mg/L	1	03/08/23 10:14 PM
Surr: Isopropylbenzene	41.3	0	25-124		%REC	1	03/08/23 10:14 PM
Surr: Octacosane	81.7	0	51-124		%REC	1	03/08/23 10:14 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	03/06/23 12:16 PM
Surr: Tetrachlorethene	101	0	74-138		%REC	1	03/06/23 12:16 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 07:44 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 07:44 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	02/27/23 07:44 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 07:44 PM
Surr: 1,2-Dichloroethane-d4	88.3	0	72-119		%REC	1	02/27/23 07:44 PM
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	02/27/23 07:44 PM
Surr: Dibromofluoromethane	95.3	0	85-115		%REC	1	02/27/23 07:44 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	02/27/23 07:44 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: *10-Mar-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-1
Project:	HFS N Monument	**Lab ID:**	2302269-03
Project No:	524199	**Collection Date:**	02/23/23 02:10 PM
Lab Order:	2302269	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.164	0.164	0.205	C	mg/L	1	03/08/23 10:22 PM
Surr: Isopropylbenzene	52.2	0	25-124		%REC	1	03/08/23 10:22 PM
Surr: Octacosane	80.7	0	51-124		%REC	1	03/08/23 10:22 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	03/06/23 12:38 PM
Surr: Tetrachlorethene	99.5	0	74-138		%REC	1	03/06/23 12:38 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 08:10 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 08:10 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	02/27/23 08:10 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 08:10 PM
Surr: 1,2-Dichloroethane-d4	87.8	0	72-119		%REC	1	02/27/23 08:10 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	02/27/23 08:10 PM
Surr: Dibromofluoromethane	97.6	0	85-115		%REC	1	02/27/23 08:10 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	02/27/23 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: *10-Mar-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-3
Project:	HFS N Monument	**Lab ID:**	2302269-04
Project No:	524199	**Collection Date:**	02/23/23 03:15 PM
Lab Order:	2302269	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.177	0.177	0.222	C	mg/L	1	03/08/23 10:31 PM
Surr: Isopropylbenzene	45.5	0	25-124		%REC	1	03/08/23 10:31 PM
Surr: Octacosane	82.2	0	51-124		%REC	1	03/08/23 10:31 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	03/06/23 01:00 PM
Surr: Tetrachlorethene	98.1	0	74-138		%REC	1	03/06/23 01:00 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 08:35 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 08:35 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	02/27/23 08:35 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 08:35 PM
Surr: 1,2-Dichloroethane-d4	87.6	0	72-119		%REC	1	02/27/23 08:35 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	02/27/23 08:35 PM
Surr: Dibromofluoromethane	97.5	0	85-115		%REC	1	02/27/23 08:35 PM
Surr: Toluene-d8	102	0	81-120		%REC	1	02/27/23 08:35 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: *10-Mar-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-5
Project:	HFS N Monument	**Lab ID:**	2302269-05
Project No:	524199	**Collection Date:**	02/23/23 04:05 PM
Lab Order:	2302269	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.154	0.154	0.193	C	mg/L	1	03/08/23 10:40 PM
Surr: Isopropylbenzene	46.0	0	25-124		%REC	1	03/08/23 10:40 PM
Surr: Octacosane	78.9	0	51-124		%REC	1	03/08/23 10:40 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	03/06/23 01:22 PM
Surr: Tetrachlorethene	97.9	0	74-138		%REC	1	03/06/23 01:22 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 09:01 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 09:01 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	02/27/23 09:01 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 09:01 PM
Surr: 1,2-Dichloroethane-d4	88.7	0	72-119		%REC	1	02/27/23 09:01 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	02/27/23 09:01 PM
Surr: Dibromofluoromethane	97.1	0	85-115		%REC	1	02/27/23 09:01 PM
Surr: Toluene-d8	102	0	81-120		%REC	1	02/27/23 09:01 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: *10-Mar-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	EB-1-2-23-23
Project:	HFS N Monument	**Lab ID:**	2302269-06
Project No:	524199	**Collection Date:**	02/23/23 04:45 PM
Lab Order:	2302269	**Matrix:**	EQUIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.150	0.150	0.187	C	mg/L	1	03/08/23 10:49 PM
Surr: Isopropylbenzene	53.1	0	25-124		%REC	1	03/08/23 10:49 PM
Surr: Octacosane	84.2	0	51-124		%REC	1	03/08/23 10:49 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	03/06/23 11:33 AM
Surr: Tetrachlorethene	98.7	0	74-138		%REC	1	03/06/23 11:33 AM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 03:27 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 03:27 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	02/27/23 03:27 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 03:27 PM
Surr: 1,2-Dichloroethane-d4	90.9	0	72-119		%REC	1	02/27/23 03:27 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	02/27/23 03:27 PM
Surr: Dibromofluoromethane	97.9	0	85-115		%REC	1	02/27/23 03:27 PM
Surr: Toluene-d8	103	0	81-120		%REC	1	02/27/23 03:27 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: *10-Mar-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Duplicate-1
Project:	HFS N Monument	**Lab ID:**	2302269-07
Project No:	524199	**Collection Date:**	02/23/23
Lab Order:	2302269	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.163	0.163	0.204	C	mg/L	1	03/08/23 10:58 PM
Surr: Isopropylbenzene	53.5	0	25-124		%REC	1	03/08/23 10:58 PM
Surr: Octacosane	79.9	0	51-124		%REC	1	03/08/23 10:58 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	03/06/23 01:44 PM
Surr: Tetrachlorethene	98.2	0	74-138		%REC	1	03/06/23 01:44 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 09:27 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 09:27 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	02/27/23 09:27 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 09:27 PM
Surr: 1,2-Dichloroethane-d4	88.2	0	72-119		%REC	1	02/27/23 09:27 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	02/27/23 09:27 PM
Surr: Dibromofluoromethane	97.2	0	85-115		%REC	1	02/27/23 09:27 PM
Surr: Toluene-d8	103	0	81-120		%REC	1	02/27/23 09:27 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: *10-Mar-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Trip Blank
Project:	HFS N Monument	**Lab ID:**	2302269-08
Project No:	524199	**Collection Date:**	02/23/23
Lab Order:	2302269	**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	02/27/23 02:36 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 02:36 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	02/27/23 02:36 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	02/27/23 02:36 PM
Surr: 1,2-Dichloroethane-d4	90.2	0	72-119		%REC	1	02/27/23 02:36 PM
Surr: 4-Bromofluorobenzene	105	0	76-119		%REC	1	02/27/23 02:36 PM
Surr: Dibromofluoromethane	97.5	0	85-115		%REC	1	02/27/23 02:36 PM
Surr: Toluene-d8	103	0	81-120		%REC	1	02/27/23 02:36 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:** *10-Mar-23*

CLIENT: TRC Environmental Corp.
Work Order: 2302269
Project: HFS N Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_230308A

The QC data in batch 109170 applies to the following samples: 2302269-01C, 2302269-02C, 2302269-03C, 2302269-04C, 2302269-05C, 2302269-06C, 2302269-07C

Sample ID: **MB-109170** Batch ID: **109170** TestNo: **M8015D** Units: **mg/L**
SampType: **MBLK** Run ID: **GC15_230308A** Analysis Date: **3/8/2023 9:37:10 PM** Prep Date: **3/8/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0216		0.1000		21.6	25	124			S
Surr: Octacosane	0.0736		0.1000		73.6	51	124			

Sample ID: **LCS-109170** Batch ID: **109170** TestNo: **M8015D** Units: **mg/L**
SampType: **LCS** Run ID: **GC15_230308A** Analysis Date: **3/8/2023 9:46:02 PM** Prep Date: **3/8/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.839	0.100	1.250	0	67.1	50	114			
Surr: Isopropylbenzene	0.0379		0.1000		37.9	25	124			
Surr: Octacosane	0.0759		0.1000		75.9	51	124			

Sample ID: **LCSD-109170** Batch ID: **109170** TestNo: **M8015D** Units: **mg/L**
SampType: **LCSD** Run ID: **GC15_230308A** Analysis Date: **3/8/2023 9:54:53 PM** Prep Date: **3/8/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.876	0.100	1.250	0	70.1	50	114	4.26	30	
Surr: Isopropylbenzene	0.0311		0.1000		31.1	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: TRC Environmental Corp.
Work Order: 2302269
Project: HFS N Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_230306A

The QC data in batch 109121 applies to the following samples: 2302269-01B, 2302269-02B, 2302269-03B, 2302269-04B, 2302269-05B, 2302269-06B, 2302269-07B

Sample ID: **LCS-109121** Batch ID: **109121** TestNo: **M8015V** Units: **mg/L**
SampType: **LCS** Run ID: **GC4_230306A** Analysis Date: **3/6/2023 9:44:08 AM** Prep Date: **3/6/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.81	0.100	2.500	0	113	67	136			
Surr: Tetrachlorethene	0.367		0.4000		91.7	74	138			

Sample ID: **LCSD-109121** Batch ID: **109121** TestNo: **M8015V** Units: **mg/L**
SampType: **LCSD** Run ID: **GC4_230306A** Analysis Date: **3/6/2023 10:05:47 AM** Prep Date: **3/6/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.84	0.100	2.500	0	114	67	136	0.950	30	
Surr: Tetrachlorethene	0.377		0.4000		94.1	74	138	0	0	

Sample ID: **MB-109121** Batch ID: **109121** TestNo: **M8015V** Units: **mg/L**
SampType: **MBLK** Run ID: **GC4_230306A** Analysis Date: **3/6/2023 11:11:22 AM** Prep Date: **3/6/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	<0.0600	0.100								
Surr: Tetrachlorethene	0.372		0.4000		92.9	74	138			

Sample ID: **2302269-07BMS** Batch ID: **109121** TestNo: **M8015V** Units: **mg/L**
SampType: **MS** Run ID: **GC4_230306A** Analysis Date: **3/6/2023 3:10:28 PM** Prep Date: **3/6/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.59	0.100	2.500	0	104	67	136			
Surr: Tetrachlorethene	0.372		0.4000		93.1	74	138			

Sample ID: **2302269-07BMSD** Batch ID: **109121** TestNo: **M8015V** Units: **mg/L**
SampType: **MSD** Run ID: **GC4_230306A** Analysis Date: **3/6/2023 3:32:35 PM** Prep Date: **3/6/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.84	0.100	2.500	0	114	67	136	9.04	30	
Surr: Tetrachlorethene	0.396		0.4000		99.1	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: TRC Environmental Corp.
Work Order: 2302269
Project: HFS N Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230227A

The QC data in batch 109021 applies to the following samples: 2302269-01A, 2302269-02A, 2302269-03A, 2302269-04A, 2302269-05A, 2302269-06A, 2302269-07A, 2302269-08A

Sample ID: **LCS-109021** Batch ID: **109021** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_230227A** Analysis Date: **2/27/2023 12:45:00 PM** Prep Date: **2/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0267	0.00100	0.0232	0	115	81	122			
Ethylbenzene	0.0268	0.00100	0.0232	0	115	80	120			
Toluene	0.0271	0.00200	0.0232	0	117	80	120			
Total Xylenes	0.0803	0.00100	0.0696	0	115	80	120			
Surr: 1,2-Dichloroethane-d4	178		200.0		88.9	72	119			
Surr: 4-Bromofluorobenzene	203		200.0		102	76	119			
Surr: Dibromofluoromethane	191		200.0		95.7	85	115			
Surr: Toluene-d8	203		200.0		101	81	120			

Sample ID: **MB-109021** Batch ID: **109021** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_230227A** Analysis Date: **2/27/2023 1:44:00 PM** Prep Date: **2/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000300	0.00100								
Ethylbenzene	<0.000300	0.00100								
Toluene	<0.000600	0.00200								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	178		200.0		89.1	72	119			
Surr: 4-Bromofluorobenzene	207		200.0		103	76	119			
Surr: Dibromofluoromethane	187		200.0		93.3	85	115			
Surr: Toluene-d8	212		200.0		106	81	120			

Sample ID: **2302258-06AMS** Batch ID: **109021** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS5_230227A** Analysis Date: **2/27/2023 9:52:00 PM** Prep Date: **2/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0252	0.00100	0.0232	0	109	81	122			
Ethylbenzene	0.0250	0.00100	0.0232	0	108	80	120			
Toluene	0.0255	0.00200	0.0232	0	110	80	120			
Total Xylenes	0.0745	0.00100	0.0696	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	174		200.0		87.2	72	119			
Surr: 4-Bromofluorobenzene	203		200.0		101	76	119			
Surr: Dibromofluoromethane	193		200.0		96.3	85	115			
Surr: Toluene-d8	201		200.0		100	81	120			

Sample ID: **2302258-06AMSD** Batch ID: **109021** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS5_230227A** Analysis Date: **2/27/2023 10:18:00 PM** Prep Date: **2/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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: TRC Environmental Corp.
Work Order: 2302269
Project: HFS N Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230227A

Sample ID: **2302258-06AMSD** Batch ID: **109021** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS5_230227A** Analysis Date: **2/27/2023 10:18:00 PM** Prep Date: **2/27/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0230	0.00100	0.0232	0	99.2	81	122	9.16	20	
Ethylbenzene	0.0229	0.00100	0.0232	0	98.6	80	120	8.85	20	
Toluene	0.0233	0.00200	0.0232	0	100	80	120	9.17	20	
Total Xylenes	0.0687	0.00100	0.0696	0	98.7	80	120	8.09	20	
Surr: 1,2-Dichloroethane-d4	178		200.0		89.2	72	119	0	0	
Surr: 4-Bromofluorobenzene	201		200.0		101	76	119	0	0	
Surr: Dibromofluoromethane	194		200.0		97.1	85	115	0	0	
Surr: Toluene-d8	201		200.0		100	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

Analytical Data Review Checklist		
Site: North Monument Release Site Location: Lea County, NM Client Name: HF Sinclair Project #: 574868.0000.0000	Laboratory: DHL Analytical (Round Rock, TX) Laboratory Report #(s): 2302269	QA Reviewer: Megan Yonts Date: 2/6/24 Peer Reviewer: Audrey Eljuri Date: 3/22/24
Analytical Method(s): BTEX (SW-846 8260D); TPH GRO (SW-846 8015); TPH DRO (SW-846 8015)	Matrices Sampled: Groundwater; aqueous QA/QC samples	Sample Collection Date(s): 2/23/23
Sampling Objective(s): Quarterly Groundwater Monitoring		
Sample IDs: Refer to laboratory data package.		

	Review Item or Question	Y	N	NA	Comments[1]
Usability Assessment					
	Sample Traceability / Chain of Custody				
1	Was the COC form appropriately completed?		X		The collection dates for EB-1-2-23-23 and Duplicate-1 were missing. The information was correctly inputted by the laboratory as 2/23/23. The matrix type was missing for Duplicate-1 (groundwater) and the Trip Blank (water). The number of containers and preservation type were missing for the Trip Blank.
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC form?	X			Refer to Item 1.
	Sample Preservation and Integrity				
4	Did samples arrive at the laboratory appropriately preserved?	X			
	Was the cooler temperature between 0-6°C when required?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC and TPH samples preserved in the field or collected in EnCore® samplers when required?			X	
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			

	Review Item or Question	Y	N	NA	Comments[1]
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis HT requirements met?		X		The case narrative explains that for the TPH DRO analysis, the samples were initially extracted on 3/2/23 and analyzed on 3/6-7/2023. Upon review it was noticed the samples were inadvertently spiked with the Diesel standard. Therefore, the remainder of the samples were used for repreparation/extraction and re-analysis on 3/8/23. This reanalysis was performed 5 days outside the method hold time of 7 days. Therefore, all TPH DRO results may be estimated, biased low.
8	Air Samples Collected in Evacuated Canisters Only: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
	Data Completeness				
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			
13	Were soil/sediment results reported on a dry weight basis?			X	
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?	X			
15	Did the laboratory provide the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
	Sensitivity				
16	Do the detection limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Did the laboratory utilize the correct detection limits (e.g., QLs, RLs, MDLs, LODs, etc.)?	X			
18	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).		X		
19	Did the laboratory provide an adequate explanation as to why dilutions were performed?			X	

	Review Item or Question	Y	N	NA	Comments[1]
	QC Results				
20	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
21	Does each analytical or preparation batch have its own method blank?	X			
22	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples.		X		Equipment blank: EB-1-2-23-23 Trip Blank
23	Are there any potential false positive results based on questions 20 and/or 22? Note: This project reports analyte concentrations only down to the QL (no MDLs reported); therefore, there are no laboratory J-qualified results. Based on this data protocol, qualification of the data was performed as follows: • Sample results ≥QL but < the associated blank action limit were qualified as nondetects (U) at the reported concentration (organics) or as estimated with a potential high bias (J+) (inorganics). Action limits are calculated as 2x blank concentration for organics and 10x blank concentration for inorganics. • Qualification was not required for nondetect (ND) results or for positive results ≥ the associated blank action limit.		X		
24	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.	X			
25	Does each analytical or preparation batch have its own LCS?	X			
26	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.	X			

	Review Item or Question	Y	N	NA	Comments[1]
27	Are MS/MSD recoveries within QC limits? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.	X			MS/MSDs were performed on project sample Duplicate-1 for TPH GRO.
28	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.	X			
29	Are laboratory duplicate RPDs within QC limits? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	
30	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria are RPD ≤50 for solid samples and RPD ≤30 for aqueous samples when results are >5x the reporting limit; otherwise, these RPD criteria are doubled, OR these results may be evaluated based on the AbsD, which should be ≤2×QL for solid samples or ≤QL for aqueous samples.	X			Field duplicate pair MW-5 and Duplicate-1 met project criteria.
31	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected. □	X			
	Laboratory Comments				
32	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach laboratory narrative and highlight the comments that have potential impact to sample results).		X		
33	Were any other potential data quality issues identified? If yes, describe issues.		X		
	Do the Data Make Sense?				

	Review Item or Question	Y	N	NA	Comments[1]
34	Do any results look suspect or questionable? If yes, ASK THE LAB and CONTACT the project team!		X		
35	Has the EDD been compared with the laboratory report?			X	

(1) Validation actions are generally based on the following EPA National Functional Guidelines documents(s) but may be modified based on project requirements or professional judgement: EPA National Functional Guidelines for Organic/Inorganic Superfund Methods Data Review (EPA-540-R-20-005/EPA-542-R-20-006), November 2020

Acronyms:

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes
COC = Chain of Custody
DRO = Diesel Range Organics
EDD = Electronic Data Deliverable
GRO = Gasoline Range Organics
HT = Holding Time
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
LOD = Limit of Detection
MDL = Method Detection Limit
MS/MSD = Matrix Spike / Matrix Spike Duplicate
ND = Nondetect
QA = Quality Assurance
QC = Quality Control
QL = Quantitation Limit
RL = Reporting Limit
RPD = Relative Percent Difference = 100% ×|(A-B)/((A+B)/2)|
TPH = Total Petroleum Hydrocarbons

Definitions of Data Qualifiers (USEPA): None

Additional Comments: None

DHL ANALYTICAL

August 28, 2023

Dana Helbert
TRC Environmental Corp.
505 East Huntland Drive #250
Austin, Texas 78752
TEL: (512) 684-3176
FAX:

Order No.: 2308264

RE: HFS N. Monument GW Sampling

Dear Dana Helbert:

DHL Analytical, Inc. received 8 sample(s) on 8/17/2023 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: TRC
ADDRESS: 505 East Huntland Dr. Ste 250 Austin TX
PHONE: (918)404-9411 EMAIL: DHELBERT@TRCcompanies.com
DATA REPORTED TO: DANA HELBERT
ADDITIONAL REPORT COPIES TO: —

DATE: 8/16/23
PO#: 196790
PROJECT LOCATION OR NAME: N. Monument GW sampling
CLIENT PROJECT # 524199.0000.0000 COLLECTOR: Robert Nicky John Ponkil

LAB USE ONLY
DHL WORKORDER #: 2308264

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

Lab Use Only

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

Field Sample I.D.	DHL Lab #	2023 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] D	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
MW-1	01	8/15/23	1005	W	40 mL VOA Amber, 1 Jar	7	✓	✓	✓	✓														✓
MW-3	02		1125			7	✓	✓		✓														✓
MW-5	07		1230			7	✓	✓		✓														✓
MW-7	04		1415			7	✓	✓		✓														✓
EB 081523	05		1430			7	✓	✓		✓														✓
MW-6	06		1620			7	✓	✓		✓														✓
Duplicate-01	07	↓	—		↓	7	✓	✓		✓														✓
Trip Blank	08	8/15/23	—	W	40 mL VOA	2		✓																✓

Relinquished By: (Sign)	DATE/TIME	Received by:
[signature]	8/16/23 1145	Fed Ex
Fed Ex	8/17/23 0845	[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): 1.8 **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**

DHL COC REV 4 | MAR 2023

ORIGIN ID:HOBA (915) 222-1322

T R C ENVIRONMENTAL CORP
505 E HUNTLAND DR STE 250

AUSTIN, TX 78752
UNITED STATES US

SHIP DATE: 16AUG23
ACTWGT: 51.85 LB
CAD: 6994246/SSFE2422
DIMS: 24x13x15 IN

BILL THIRD PARTY

TO

DHL
2300 DOUBLE CREEK DR

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

Part # 156297-435-ERB82-EXP 05/24

FedEx Express

J2331230725011v

TRK# 0201 7825 7437 9408

THU - 17 AUG 10:30A
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US AUS

CUSTODY SEAL

DATE 8/16/23

SIGNATURE

DHL ANALYTICAL

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **TRC Environmental Corp.** Date Received: **8/17/2023**

Work Order Number: **2308264** Received by: **EL**

Checklist completed by: _____ 8/17/2023 (Signature / Date) Reviewed by: SH 8/17/2023 (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 1.8

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:** *28-Aug-23*

CLIENT: TRC Environmental Corp.
Project: HFS N. Monument GW Sampling
Lab Order: 2308264

CASE NARRATIVE

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

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

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following.

For Volatiles Analysis, the Matrix Spike Duplicate (2308263-01 MSD) was analyzed (< 1 hour) outside of the method specified 12-hour window. The associated field samples were analyzed within the 12-hour window. No further corrective action was taken.

DHL Analytical, Inc.

Date: *28-Aug-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-1
Project:	HFS N. Monument GW Sampling	**Lab ID:**	2308264-01
Project No:	524199.0000.0000	**Collection Date:**	08/15/23 10:05 AM
Lab Order:	2308264	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.154	0.154	0.193		mg/L	1	08/23/23 03:15 PM
Surr: Isopropylbenzene	48.1	0	25-124		%REC	1	08/23/23 03:15 PM
Surr: Octacosane	78.0	0	51-124		%REC	1	08/23/23 03:15 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	08/22/23 12:56 PM
Surr: Tetrachlorethene	84.9	0	74-138		%REC	1	08/22/23 12:56 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:27 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:27 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/18/23 06:27 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:27 PM
Surr: 1,2-Dichloroethane-d4	96.0	0	72-119		%REC	1	08/18/23 06:27 PM
Surr: 4-Bromofluorobenzene	95.6	0	76-119		%REC	1	08/18/23 06:27 PM
Surr: Dibromofluoromethane	106	0	85-115		%REC	1	08/18/23 06:27 PM
Surr: Toluene-d8	96.6	0	81-120		%REC	1	08/18/23 06:27 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: *28-Aug-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-3
Project:	HFS N. Monument GW Sampling	**Lab ID:**	2308264-02
Project No:	524199.0000.0000	**Collection Date:**	08/15/23 11:25 AM
Lab Order:	2308264	**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	0.184		mg/L	1	08/23/23 03:23 PM
Surr: Isopropylbenzene	50.8	0	25-124		%REC	1	08/23/23 03:23 PM
Surr: Octacosane	82.4	0	51-124		%REC	1	08/23/23 03:23 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	08/22/23 01:18 PM
Surr: Tetrachlorethene	85.3	0	74-138		%REC	1	08/22/23 01:18 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:53 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:53 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/18/23 06:53 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:53 PM
Surr: 1,2-Dichloroethane-d4	94.1	0	72-119		%REC	1	08/18/23 06:53 PM
Surr: 4-Bromofluorobenzene	94.9	0	76-119		%REC	1	08/18/23 06:53 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	08/18/23 06:53 PM
Surr: Toluene-d8	96.0	0	81-120		%REC	1	08/18/23 06:53 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: *28-Aug-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-5
Project:	HFS N. Monument GW Sampling	**Lab ID:**	2308264-03
Project No:	524199.0000.0000	**Collection Date:**	08/15/23 12:30 PM
Lab Order:	2308264	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.147	0.147	0.184		mg/L	1	08/23/23 03:32 PM
Surr: Isopropylbenzene	52.1	0	25-124		%REC	1	08/23/23 03:32 PM
Surr: Octacosane	78.6	0	51-124		%REC	1	08/23/23 03:32 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	08/22/23 01:40 PM
Surr: Tetrachlorethene	84.6	0	74-138		%REC	1	08/22/23 01:40 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 07:19 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 07:19 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/18/23 07:19 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 07:19 PM
Surr: 1,2-Dichloroethane-d4	94.8	0	72-119		%REC	1	08/18/23 07:19 PM
Surr: 4-Bromofluorobenzene	96.2	0	76-119		%REC	1	08/18/23 07:19 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	08/18/23 07:19 PM
Surr: Toluene-d8	95.7	0	81-120		%REC	1	08/18/23 07:19 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: *28-Aug-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-7
Project:	HFS N. Monument GW Sampling	**Lab ID:**	2308264-04
Project No:	524199.0000.0000	**Collection Date:**	08/15/23 02:15 PM
Lab Order:	2308264	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.149	0.149	0.186		mg/L	1	08/23/23 03:41 PM
Surr: Isopropylbenzene	50.9	0	25-124		%REC	1	08/23/23 03:41 PM
Surr: Octacosane	76.3	0	51-124		%REC	1	08/23/23 03:41 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	08/22/23 02:01 PM
Surr: Tetrachlorethene	76.4	0	74-138		%REC	1	08/22/23 02:01 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 07:45 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 07:45 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/18/23 07:45 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 07:45 PM
Surr: 1,2-Dichloroethane-d4	95.8	0	72-119		%REC	1	08/18/23 07:45 PM
Surr: 4-Bromofluorobenzene	94.6	0	76-119		%REC	1	08/18/23 07:45 PM
Surr: Dibromofluoromethane	106	0	85-115		%REC	1	08/18/23 07:45 PM
Surr: Toluene-d8	93.7	0	81-120		%REC	1	08/18/23 07:45 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: *28-Aug-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	EB 081523
Project:	HFS N. Monument GW Sampling	**Lab ID:**	2308264-05
Project No:	524199.0000.0000	**Collection Date:**	08/15/23 02:30 PM
Lab Order:	2308264	**Matrix:**	EQUIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.158	0.158	0.197		mg/L	1	08/23/23 03:50 PM
Surr: Isopropylbenzene	46.8	0	25-124		%REC	1	08/23/23 03:50 PM
Surr: Octacosane	83.9	0	51-124		%REC	1	08/23/23 03:50 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	08/22/23 12:34 PM
Surr: Tetrachlorethene	85.3	0	74-138		%REC	1	08/22/23 12:34 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:01 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:01 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/18/23 06:01 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 06:01 PM
Surr: 1,2-Dichloroethane-d4	93.8	0	72-119		%REC	1	08/18/23 06:01 PM
Surr: 4-Bromofluorobenzene	95.4	0	76-119		%REC	1	08/18/23 06:01 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	08/18/23 06:01 PM
Surr: Toluene-d8	95.4	0	81-120		%REC	1	08/18/23 06:01 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: *28-Aug-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-6
Project:	HFS N. Monument GW Sampling	**Lab ID:**	2308264-06
Project No:	524199.0000.0000	**Collection Date:**	08/15/23 04:20 PM
Lab Order:	2308264	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.150	0.150	0.187		mg/L	1	08/23/23 03:59 PM
Surr: Isopropylbenzene	52.8	0	25-124		%REC	1	08/23/23 03:59 PM
Surr: Octacosane	76.3	0	51-124		%REC	1	08/23/23 03:59 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	0.203	0.0600	0.100		mg/L	1	08/22/23 02:23 PM
Surr: Tetrachlorethene	86.7	0	74-138		%REC	1	08/22/23 02:23 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 08:11 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 08:11 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/18/23 08:11 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 08:11 PM
Surr: 1,2-Dichloroethane-d4	94.7	0	72-119		%REC	1	08/18/23 08:11 PM
Surr: 4-Bromofluorobenzene	94.9	0	76-119		%REC	1	08/18/23 08:11 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	08/18/23 08:11 PM
Surr: Toluene-d8	98.4	0	81-120		%REC	1	08/18/23 08:11 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: *28-Aug-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Duplicate-01
Project:	HFS N. Monument GW Sampling	**Lab ID:**	2308264-07
Project No:	524199.0000.0000	**Collection Date:**	08/15/23
Lab Order:	2308264	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.164	0.164	0.206		mg/L	1	08/23/23 04:08 PM
Surr: Isopropylbenzene	55.5	0	25-124		%REC	1	08/23/23 04:08 PM
Surr: Octacosane	76.6	0	51-124		%REC	1	08/23/23 04:08 PM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	0.235	0.0600	0.100		mg/L	1	08/22/23 02:45 PM
Surr: Tetrachlorethene	75.7	0	74-138		%REC	1	08/22/23 02:45 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 08:37 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 08:37 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/18/23 08:37 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 08:37 PM
Surr: 1,2-Dichloroethane-d4	93.8	0	72-119		%REC	1	08/18/23 08:37 PM
Surr: 4-Bromofluorobenzene	96.3	0	76-119		%REC	1	08/18/23 08:37 PM
Surr: Dibromofluoromethane	102	0	85-115		%REC	1	08/18/23 08:37 PM
Surr: Toluene-d8	97.7	0	81-120		%REC	1	08/18/23 08:37 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: *28-Aug-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Trip Blank
Project:	HFS N. Monument GW Sampling	**Lab ID:**	2308264-08
Project No:	524199.0000.0000	**Collection Date:**	08/15/23
Lab Order:	2308264	**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	08/18/23 05:35 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 05:35 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	08/18/23 05:35 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	08/18/23 05:35 PM
Surr: 1,2-Dichloroethane-d4	95.4	0	72-119		%REC	1	08/18/23 05:35 PM
Surr: 4-Bromofluorobenzene	95.6	0	76-119		%REC	1	08/18/23 05:35 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	08/18/23 05:35 PM
Surr: Toluene-d8	96.6	0	81-120		%REC	1	08/18/23 05:35 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: *28-Aug-23*

CLIENT: TRC Environmental Corp.
Work Order: 2308264
Project: HFS N. Monument GW Sampling

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_230823B

The QC data in batch 111789 applies to the following samples: 2308264-01C, 2308264-02C, 2308264-03C, 2308264-04C, 2308264-05C, 2308264-06C, 2308264-07C

Sample ID: **MB-111789** Batch ID: **111789** TestNo: **M8015D** Units: **mg/L**
SampType: **MBLK** Run ID: **GC15_230823B** Analysis Date: **8/23/2023 2:30:47 PM** Prep Date: **8/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0494		0.1000		49.4	25	124			
Surr: Octacosane	0.0771		0.1000		77.1	51	124			

Sample ID: **LCS-111789** Batch ID: **111789** TestNo: **M8015D** Units: **mg/L**
SampType: **LCS** Run ID: **GC15_230823B** Analysis Date: **8/23/2023 2:39:39 PM** Prep Date: **8/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.802	0.100	1.250	0	64.2	50	114			
Surr: Isopropylbenzene	0.0462		0.1000		46.2	25	124			
Surr: Octacosane	0.0755		0.1000		75.5	51	124			

Sample ID: **LCSD-111789** Batch ID: **111789** TestNo: **M8015D** Units: **mg/L**
SampType: **LCSD** Run ID: **GC15_230823B** Analysis Date: **8/23/2023 2:48:30 PM** Prep Date: **8/21/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.847	0.100	1.250	0	67.8	50	114	5.43	30	
Surr: Isopropylbenzene	0.0330		0.1000		33.0	25	124	0	0	
Surr: Octacosane	0.0764		0.1000		76.4	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: TRC Environmental Corp.
Work Order: 2308264
Project: HFS N. Monument GW Sampling

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_230822A

The QC data in batch 111813 applies to the following samples: 2308264-01B, 2308264-02B, 2308264-03B, 2308264-04B, 2308264-05B, 2308264-06B, 2308264-07B

Sample ID: **LCS-111813** Batch ID: **111813** TestNo: **M8015V** Units: **mg/L**
SampType: **LCS** Run ID: **GC4_230822A** Analysis Date: **8/22/2023 10:43:58 AM** Prep Date: **8/22/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.64	0.100	2.500	0	106	67	136			
Surr: Tetrachlorethene	0.330		0.4000		82.4	74	138			

Sample ID: **LCSD-111813** Batch ID: **111813** TestNo: **M8015V** Units: **mg/L**
SampType: **LCSD** Run ID: **GC4_230822A** Analysis Date: **8/22/2023 11:06:23 AM** Prep Date: **8/22/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.66	0.100	2.500	0	107	67	136	0.941	30	
Surr: Tetrachlorethene	0.343		0.4000		85.8	74	138	0	0	

Sample ID: **MB-111813** Batch ID: **111813** TestNo: **M8015V** Units: **mg/L**
SampType: **MBLK** Run ID: **GC4_230822A** Analysis Date: **8/22/2023 12:12:32 PM** Prep Date: **8/22/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	<0.0600	0.100								
Surr: Tetrachlorethene	0.343		0.4000		85.9	74	138			

Sample ID: **2308264-01BMS** Batch ID: **111813** TestNo: **M8015V** Units: **mg/L**
SampType: **MS** Run ID: **GC4_230822A** Analysis Date: **8/22/2023 3:06:55 PM** Prep Date: **8/22/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.35	0.100	2.500	0	94.0	67	136			
Surr: Tetrachlorethene	0.322		0.4000		80.5	74	138			

Sample ID: **2308264-01BMSD** Batch ID: **111813** TestNo: **M8015V** Units: **mg/L**
SampType: **MSD** Run ID: **GC4_230822A** Analysis Date: **8/22/2023 3:28:56 PM** Prep Date: **8/22/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.47	0.100	2.500	0	98.9	67	136	5.01	30	
Surr: Tetrachlorethene	0.320		0.4000		80.1	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: TRC Environmental Corp.
Work Order: 2308264
Project: HFS N. Monument GW Sampling

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230818C

The QC data in batch 111763 applies to the following samples: 2308264-01A, 2308264-02A, 2308264-03A, 2308264-04A, 2308264-05A, 2308264-06A, 2308264-07A, 2308264-08A

Sample ID: **LCS-111763** Batch ID: **111763** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_230818C** Analysis Date: **8/18/2023 11:00:00 AM** Prep Date: **8/18/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0233	0.00100	0.0232	0	100	81	122			
Ethylbenzene	0.0231	0.00100	0.0232	0	99.4	80	120			
Toluene	0.0234	0.00200	0.0232	0	101	80	120			
Total Xylenes	0.0683	0.00100	0.0696	0	98.1	80	120			
Surr: 1,2-Dichloroethane-d4	182		200.0		90.8	72	119			
Surr: 4-Bromofluorobenzene	192		200.0		96.1	76	119			
Surr: Dibromofluoromethane	203		200.0		101	85	115			
Surr: Toluene-d8	189		200.0		94.5	81	120			

Sample ID: **MB-111763** Batch ID: **111763** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_230818C** Analysis Date: **8/18/2023 11:52:00 AM** Prep Date: **8/18/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000300	0.00100								
Ethylbenzene	<0.000300	0.00100								
Toluene	<0.000600	0.00200								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	187		200.0		93.6	72	119			
Surr: 4-Bromofluorobenzene	188		200.0		94.1	76	119			
Surr: Dibromofluoromethane	205		200.0		102	85	115			
Surr: Toluene-d8	195		200.0		97.3	81	120			

Sample ID: **2308263-01AMS** Batch ID: **111763** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS5_230818C** Analysis Date: **8/18/2023 9:55:00 PM** Prep Date: **8/18/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.499	0.0200	0.464	0	108	81	122			
Ethylbenzene	0.480	0.0200	0.464	0	103	80	120			
Toluene	0.496	0.0400	0.464	0	107	80	120			
Total Xylenes	1.42	0.0200	1.39	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	3660		4000		91.4	72	119			
Surr: 4-Bromofluorobenzene	3660		4000		91.4	76	119			
Surr: Dibromofluoromethane	4080		4000		102	85	115			
Surr: Toluene-d8	3720		4000		93.1	81	120			

Sample ID: **2308263-01AMSD** Batch ID: **111763** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS5_230818C** Analysis Date: **8/18/2023 10:22:00 PM** Prep Date: **8/18/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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: TRC Environmental Corp.
Work Order: 2308264
Project: HFS N. Monument GW Sampling

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_230818C

Sample ID: **2308263-01AMSD** Batch ID: **111763** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS5_230818C** Analysis Date: **8/18/2023 10:22:00 PM** Prep Date: **8/18/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.459	0.0200	0.464	0	99.0	81	122	8.30	20	
Ethylbenzene	0.458	0.0200	0.464	0	98.6	80	120	4.71	20	
Toluene	0.464	0.0400	0.464	0	100	80	120	6.65	20	
Total Xylenes	1.35	0.0200	1.39	0	97.0	80	120	4.95	20	
Surr: 1,2-Dichloroethane-d4	3580		4000		89.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	3700		4000		92.5	76	119	0	0	
Surr: Dibromofluoromethane	4040		4000		101	85	115	0	0	
Surr: Toluene-d8	3720		4000		93.1	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

Analytical Data Review Checklist		
Site: North Monument Release Site Location: Lea County, NM Client Name: HF Sinclair Project #: 574868.0000.0000	Laboratory: DHL Analytical (Round Rock, TX) Laboratory Report #(s): 2308264	QA Reviewer: Megan Yonts Date: 2/7/24 Peer Reviewer: Audrey Eljuri Date: 3/22/24
Analytical Method(s): BTEX (SW-846 8270D); TPH GRO (SW-846 8015); TPH DRO (SW-846 8015)	Matrices Sampled: Groundwater; aqueous QA/QC samples	Sample Collection Date(s): 08/15/23
Sampling Objective(s): Quarterly Groundwater Monitoring		
Sample IDs: Refer to laboratory data package.		

	Review Item or Question	Y	N	NA	Comments[1]
Usability Assessment					
	Sample Traceability / Chain of Custody				
1	Was the COC form appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC form?	X			
	Sample Preservation and Integrity				
4	Did samples arrive at the laboratory appropriately preserved?	X			
	Was the cooler temperature between 0-6°C when required?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC and TPH samples preserved in the field or collected in EnCore® samplers when required?			X	
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis HT requirements met?	X			

	Review Item or Question	Y	N	NA	Comments[1]
8	Air Samples Collected in Evacuated Canisters Only: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
	Data Completeness				
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			
13	Were soil/sediment results reported on a dry weight basis?			X	
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?	X			
15	Did the laboratory provide the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
	Sensitivity				
16	Do the detection limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Did the laboratory utilize the correct detection limits (e.g., QLs, RLs, MDLs, LODs, etc.)?	X			
18	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).		X		
19	Did the laboratory provide an adequate explanation as to why dilutions were performed?			X	
	QC Results				
20	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
21	Does each analytical or preparation batch have its own method blank?	X			

	Review Item or Question	Y	N	NA	Comments[1]
22	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples.		X		Equipment blank: EB 081523 Trip Blank
23	Are there any potential false positive results based on questions 20 and/or 22? Note: This project reports analyte concentrations only down to the QL (no MDLs reported); therefore, there are no laboratory J-qualified results. Based on this data protocol, qualification of the data was performed as follows: • Sample results ≥QL but < the associated blank action limit were qualified as nondetects (U) at the reported concentration (organics) or as estimated with a potential high bias (J+) (inorganics). Action limits are calculated as 2x blank concentration for organics and 10x blank concentration for inorganics. • Qualification was not required for nondetect (ND) results or for positive results ≥ the associated blank action limit.		X		
24	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.	X			
25	Does each analytical or preparation batch have its own LCS?	X			
26	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.	X			
27	Are MS/MSD recoveries within QC limits? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.	X			A MS/MSD was performed on project sample MW-1 for TPH GRO.
28	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.	X			

	Review Item or Question	Y	N	NA	Comments[1]
29	Are laboratory duplicate RPDs within QC limits? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	
30	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria are RPD ≤50 for solid samples and RPD ≤30 for aqueous samples when results are >5x the reporting limit; otherwise, these RPD criteria are doubled, OR these results may be evaluated based on the AbsD, which should be ≤2×QL for solid samples or ≤QL for aqueous samples.	X			Field duplicate pair MW-6 and Duplicate-01 met project criteria.
31	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.	X			
	Laboratory Comments				
32	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach laboratory narrative and highlight the comments that have potential impact to sample results).		X		
33	Were any other potential data quality issues identified? If yes, describe issues.		X		
	Do the Data Make Sense?				
34	Do any results look suspect or questionable? If yes, ASK THE LAB and CONTACT the project team!		X		
35	Has the EDD been compared with the laboratory report?			X	

(1) Validation actions are generally based on the following EPA National Functional Guidelines documents(s) but may be modified based on project requirements or professional judgement: EPA National Functional Guidelines for Organic/Inorganic Superfund Methods Data Review (EPA-540-R-20-005/EPA-542-R-20-006), November 2020

Acronyms:

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes
COC = Chain of Custody
DRO = Diesel Range Organics
EDD = Electronic Data Deliverable

Review Item or Question	Y	N	NA	Comments[1]

GRO = Gasoline Range Organics
HT = Holding Time
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
LOD = Limit of Detection
MDL = Method Detection Limit
MS/MSD = Matrix Spike / Matrix Spike Duplicate
ND = Nondetect
QA = Quality Assurance
QC = Quality Control
QL = Quantitation Limit
RL = Reporting Limit
RPD = Relative Percent Difference = 100% ×|(A-B)/((A+B)/2)|
TPH = Total Petroleum Hydrocarbons

Definitions of Data Qualifiers (USEPA): None

Additional Comments: None

October 31, 2023

Dana Helbert
TRC Environmental Corp.
505 East Huntland Drive #250
Austin, Texas 78752
TEL: (713) 306-9550
FAX:

Order No.: 2310175

RE: HFS North Monument

Dear Dana Helbert:

DHL Analytical, Inc. received 9 sample(s) on 10/20/2023 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

CLIENT: TRC Environmental Corp.
ADDRESS: 505 East Huntland Drive #250 Austin, Texas 78752
PHONE: (512) 684-3176 EMAIL: dhelbert@trcsolutions.com trccompanies.com
DATA REPORTED TO: Dana Helbert ~~dlafuente@trcsolutions.com~~
ADD'L REPORT COPIES TO: rniehay@trcsolutions.com companies

DATE: 10/19/2023
PO#: 196790
LAB USE ONLY
DHL WORKORDER # 2310175
PROJECT LOCATION OR NAME: HFS North Monument
CLIENT PROJECT #: TRC Companies Inc. 524199.0000.0000
COLLECTOR: Robert Niehay, Kathya De la Fuente GK 10/20

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

Lab Use Only

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.	DHL Lab #	Collection Date	Collection Time	Matrix	# of Containers	DRO	GRO WATER	VOC 8260_W	FIELD NOTES
MW-1	01	10/19/23	0830	AQUEOUS	7	X	X	H	
MW-3	02	10/19/23	0930	AQUEOUS	7	X	X	H	
MW-5	03	10/19/23	1030	AQUEOUS	7	X	X	H	
~~MW-6~~		~~10/19/23~~	~~1245~~	~~AQUEOUS~~	~~7~~	~~X~~	~~X~~	~~H~~	for Dana, deliver Monday 10/23 GK 10/20
MW-7	04	10/19/23	1220	AQUEOUS	7	X	X	H	
Duplicate-01	05	10/19/23	0000	AQUEOUS	7	X	X	H	
Trip Blank-1	06	10/19/23	—	AQUEOUS	2			2/H	
E. Blank	07	10/19/23	1310	—	7				Hold GK 10/20

Collect double volume at one well for MS/MSD

Relinquished By: (Sign) [signature] DATE/TIME 10/19/23 1490 Received By: FedEx
Relinquished By: (Sign) FedEx DATE/TIME 10/20/23 0849 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 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

DHL COC REV 4(D) | MAR 2023

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 _____ OF _____

CLIENT: TRC Environmental Corp
ADDRESS: 505 E. Huntland Dr #250 Austin TX
PHONE: 512 684 3176 EMAIL: dhelbert@tresolutions.com
DATA REPORTED TO:
ADDITIONAL REPORT COPIES TO:

DATE: 10/21/23
PO#: 196790
PROJECT LOCATION OR NAME: N Monument HFS
CLIENT PROJECT #
COLLECTOR: Robert Norberg

LAB USE ONLY
DHL WORKORDER #: 2310175

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

W=WATER L=LIQUID S=SOLID 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 ☐	ANALYSES: 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
MW-6	08	10/19/23	1245	~~AQ~~	~~VOA~~	7						H		X															same as Grab batch
Trip Blank 2	09	10/19/23	—	AQ	VOA	2						X																	
Per Dana H. @ 10/23/23																													

Relinquished By: (Sign)	DATE/TIME	Received by:
	10/21/23 1115	Fedex
Fedex	10/23/23 1000	
	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 #:** 76
RECEIVING TEMP (°C): 5.1
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 (915) 222-1322

T R C ENVIRONMENTAL CORP
505 E HUNTLAND DR STE 250

AUSTIN, TX 78752
UNITED STATES US

SHIP DATE: 19OCT23
ACTWGT: 48.30 LB
CAD: 6994246/SSFE2441
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO

DHL ANALYTICAL
2300 DOUBLE CREEK DR

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

Part # 156297-435-ARBB2 EXP 05/24

FedEx Express

TRK# 0201 7852 8377 7504

FRI - 20 OCT 5:00P
STANDARD OVERNIGHT

AHS
78664
TX-US AUS

A8 BSMA

CUSTODY SEAL

DATE 10/19/2023

SIGNATURE

DHL ANALYTICAL

ORIGIN ID:UVAA (000) 000-0000

T R C ENVIRONMENTAL CORP
505 E HUNTLAND DR STE 250

AUSTIN, TX 78752
UNITED STATES US

TE: 21OCT23
42.60 LB
30892/SSF02441
1x16x14 IN

IRD PARTY

TO **DHL ANALYTICAL**

2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222 REF:

INV:

PO: DEPT:

FedEx Express

TRK# 0201 **7853 5343 8910**

MON - 23 OCT 10:30A
PRIORITY OVERNIGHT

XS BSMA

AHS
78664
TX-US **AUS**

CUSTODY SEA
DATE 10/21
SIGNATURE

DHL ANALYTICAL
23 TRC

Day 1

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **TRC Environmental Corp.**

Date Received: **10/20/2023**

Work Order Number: **2310175**

Received by: **EL**

Checklist completed by: _____ 10/20/2023
Signature | Date

Reviewed by: SH 10/20/2023
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: TRC Date contacted: 10/20 Person contacted: Dana H.

Contacted by: GR Regarding: See below

Comments: 1: Sample MW-6 not received in cooler
2: Equipment Blank collected and not on COC

Corrective Action: 1: Sample MW-6 will be delivered on Monday 10/23/23
2: Per Dana, do not analyze Equipment Blank

DHL Analytical, Inc.

Day 2

Sample Receipt Checklist

Client Name: **TRC Environmental Corp.**

Date Received: **10/20/2023**

Work Order Number: **2310175**

Received by: **GLK**

Checklist completed by: _____ 10/23/2023
Signature | Date

Reviewed by: SH 10/23/2023
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 5.1

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:** *31-Oct-23*

CLIENT: TRC Environmental Corp.
Project: HFS North Monument
Lab Order: 2310175

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 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 except where noted in the following. For Volatiles analysis by method SW8260D (batch 112643) the matrix spike duplicate recovery was slightly above control limits for Toluene. This was due to matrix interference. This is flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for this compound. No further corrective actions were taken.

For GRO analysis by method M8015V the surrogate recovery for the matrix spike was slightly below control limits for Tetrachloroethene. This was due to matrix effect. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *31-Oct-23*

CLIENT: TRC Environmental Corp.
Project: HFS North Monument
Lab Order: 2310175

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2310175-01	MW-1		10/19/23 08:30 AM	10/20/2023
2310175-02	MW-3		10/19/23 09:30 AM	10/20/2023
2310175-03	MW-5		10/19/23 10:30 AM	10/20/2023
2310175-04	MW-7		10/19/23 12:20 PM	10/20/2023
2310175-05	Duplicate-01		10/19/23	10/20/2023
2310175-06	Trip Blank-1		10/19/23	10/20/2023
2310175-07	E. Blank		10/19/23 01:10 PM	10/20/2023
2310175-08	MW-6		10/19/23 12:45 PM	10/23/2023
2310175-09	Trip Blank-2		10/19/23	10/23/2023

DHL Analytical, Inc.

Date: *31-Oct-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-1
Project:	HFS North Monument	**Lab ID:**	2310175-01
Project No:	524199.0000.0000	**Collection Date:**	10/19/23 08:30 AM
Lab Order:	2310175	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.152	0.152	0.190		mg/L	1	10/26/23 10:50 AM
Surr: Isopropylbenzene	58.7	0	25-124		%REC	1	10/26/23 10:50 AM
Surr: Octacosane	87.1	0	51-124		%REC	1	10/26/23 10:50 AM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	10/26/23 05:04 PM
Surr: Tetrachlorethene	92.2	0	74-138		%REC	1	10/26/23 05:04 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 06:26 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 06:26 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/20/23 06:26 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 06:26 PM
Surr: 1,2-Dichloroethane-d4	94.4	0	72-119		%REC	1	10/20/23 06:26 PM
Surr: 4-Bromofluorobenzene	98.3	0	76-119		%REC	1	10/20/23 06:26 PM
Surr: Dibromofluoromethane	96.2	0	85-115		%REC	1	10/20/23 06:26 PM
Surr: Toluene-d8	98.8	0	81-120		%REC	1	10/20/23 06:26 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: *31-Oct-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-3
Project:	HFS North Monument	**Lab ID:**	2310175-02
Project No:	524199.0000.0000	**Collection Date:**	10/19/23 09:30 AM
Lab Order:	2310175	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.160	0.160	0.200		mg/L	1	10/26/23 10:59 AM
Surr: Isopropylbenzene	60.8	0	25-124		%REC	1	10/26/23 10:59 AM
Surr: Octacosane	94.3	0	51-124		%REC	1	10/26/23 10:59 AM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	10/26/23 05:26 PM
Surr: Tetrachlorethene	92.6	0	74-138		%REC	1	10/26/23 05:26 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 06:51 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 06:51 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/20/23 06:51 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 06:51 PM
Surr: 1,2-Dichloroethane-d4	95.3	0	72-119		%REC	1	10/20/23 06:51 PM
Surr: 4-Bromofluorobenzene	100	0	76-119		%REC	1	10/20/23 06:51 PM
Surr: Dibromofluoromethane	97.3	0	85-115		%REC	1	10/20/23 06:51 PM
Surr: Toluene-d8	96.8	0	81-120		%REC	1	10/20/23 06:51 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: *31-Oct-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-5
Project:	HFS North Monument	**Lab ID:**	2310175-03
Project No:	524199.0000.0000	**Collection Date:**	10/19/23 10:30 AM
Lab Order:	2310175	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.159	0.159	0.199		mg/L	1	10/26/23 11:07 AM
Surr: Isopropylbenzene	55.6	0	25-124		%REC	1	10/26/23 11:07 AM
Surr: Octacosane	88.1	0	51-124		%REC	1	10/26/23 11:07 AM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	10/26/23 05:49 PM
Surr: Tetrachlorethene	92.1	0	74-138		%REC	1	10/26/23 05:49 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 07:17 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 07:17 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/20/23 07:17 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 07:17 PM
Surr: 1,2-Dichloroethane-d4	93.4	0	72-119		%REC	1	10/20/23 07:17 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	10/20/23 07:17 PM
Surr: Dibromofluoromethane	95.8	0	85-115		%REC	1	10/20/23 07:17 PM
Surr: Toluene-d8	89.2	0	81-120		%REC	1	10/20/23 07:17 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: *31-Oct-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-7
Project:	HFS North Monument	**Lab ID:**	2310175-04
Project No:	524199.0000.0000	**Collection Date:**	10/19/23 12:20 PM
Lab Order:	2310175	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.159	0.159	0.198		mg/L	1	10/26/23 11:16 AM
Surr: Isopropylbenzene	53.7	0	25-124		%REC	1	10/26/23 11:16 AM
Surr: Octacosane	87.1	0	51-124		%REC	1	10/26/23 11:16 AM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	10/26/23 06:11 PM
Surr: Tetrachlorethene	91.1	0	74-138		%REC	1	10/26/23 06:11 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 07:42 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 07:42 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/20/23 07:42 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 07:42 PM
Surr: 1,2-Dichloroethane-d4	93.8	0	72-119		%REC	1	10/20/23 07:42 PM
Surr: 4-Bromofluorobenzene	105	0	76-119		%REC	1	10/20/23 07:42 PM
Surr: Dibromofluoromethane	96.0	0	85-115		%REC	1	10/20/23 07:42 PM
Surr: Toluene-d8	92.4	0	81-120		%REC	1	10/20/23 07:42 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: *31-Oct-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Duplicate-01
Project:	HFS North Monument	**Lab ID:**	2310175-05
Project No:	524199.0000.0000	**Collection Date:**	10/19/23
Lab Order:	2310175	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<0.152	0.152	0.190		mg/L	1	10/26/23 11:25 AM
Surr: Isopropylbenzene	58.4	0	25-124		%REC	1	10/26/23 11:25 AM
Surr: Octacosane	88.3	0	51-124		%REC	1	10/26/23 11:25 AM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	<0.0600	0.0600	0.100		mg/L	1	10/26/23 06:33 PM
Surr: Tetrachlorethene	91.9	0	74-138		%REC	1	10/26/23 06:33 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 08:07 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 08:07 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/20/23 08:07 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 08:07 PM
Surr: 1,2-Dichloroethane-d4	95.1	0	72-119		%REC	1	10/20/23 08:07 PM
Surr: 4-Bromofluorobenzene	100	0	76-119		%REC	1	10/20/23 08:07 PM
Surr: Dibromofluoromethane	95.8	0	85-115		%REC	1	10/20/23 08:07 PM
Surr: Toluene-d8	104	0	81-120		%REC	1	10/20/23 08:07 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: *31-Oct-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Trip Blank-1
Project:	HFS North Monument	**Lab ID:**	2310175-06
Project No:	524199.0000.0000	**Collection Date:**	10/19/23
Lab Order:	2310175	**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	10/20/23 02:33 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 02:33 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/20/23 02:33 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/20/23 02:33 PM
Surr: 1,2-Dichloroethane-d4	93.5	0	72-119		%REC	1	10/20/23 02:33 PM
Surr: 4-Bromofluorobenzene	99.0	0	76-119		%REC	1	10/20/23 02:33 PM
Surr: Dibromofluoromethane	94.9	0	85-115		%REC	1	10/20/23 02:33 PM
Surr: Toluene-d8	98.9	0	81-120		%REC	1	10/20/23 02:33 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: *31-Oct-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	MW-6
Project:	HFS North Monument	**Lab ID:**	2310175-08
Project No:	524199.0000.0000	**Collection Date:**	10/19/23 12:45 PM
Lab Order:	2310175	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	0.464	0.154	0.192		mg/L	1	10/26/23 11:34 AM
Surr: Isopropylbenzene	53.1	0	25-124		%REC	1	10/26/23 11:34 AM
Surr: Octacosane	84.4	0	51-124		%REC	1	10/26/23 11:34 AM
TPH PURGEABLE BY GC - WATER		**M8015V**					Analyst: **BTJ**
TPH-GRO (C6-C10)	0.292	0.0600	0.100		mg/L	1	10/26/23 06:56 PM
Surr: Tetrachlorethene	78.8	0	74-138		%REC	1	10/26/23 06:56 PM
8260 WATER VOLATILES BY GC/MS		**SW8260D**					Analyst: **JVR**
Benzene	<0.000300	0.000300	0.00100		mg/L	1	10/25/23 05:20 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/25/23 05:20 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/25/23 05:20 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/25/23 05:20 PM
Surr: 1,2-Dichloroethane-d4	94.8	0	72-119		%REC	1	10/25/23 05:20 PM
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	10/25/23 05:20 PM
Surr: Dibromofluoromethane	96.8	0	85-115		%REC	1	10/25/23 05:20 PM
Surr: Toluene-d8	99.7	0	81-120		%REC	1	10/25/23 05:20 PM

Qualifiers:

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

DHL Analytical, Inc.

Date: *31-Oct-23*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Trip Blank-2
Project:	HFS North Monument	**Lab ID:**	2310175-09
Project No:	524199.0000.0000	**Collection Date:**	10/19/23
Lab Order:	2310175	**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	10/25/23 03:37 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/25/23 03:37 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/25/23 03:37 PM
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	10/25/23 03:37 PM
Surr: 1,2-Dichloroethane-d4	93.5	0	72-119		%REC	1	10/25/23 03:37 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	10/25/23 03:37 PM
Surr: Dibromofluoromethane	96.4	0	85-115		%REC	1	10/25/23 03:37 PM
Surr: Toluene-d8	97.8	0	81-120		%REC	1	10/25/23 03:37 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: *31-Oct-23*

CLIENT: TRC Environmental Corp.
Work Order: 2310175
Project: HFS North Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_231026A

The QC data in batch 112641 applies to the following samples: 2310175-01C, 2310175-02C, 2310175-03C, 2310175-04C, 2310175-05C, 2310175-08C

Sample ID: **MB-112641** Batch ID: **112641** TestNo: **M8015D** Units: **mg/L**
SampType: **MBLK** Run ID: **GC15_231026A** Analysis Date: **10/26/2023 10:23:38 A** Prep Date: **10/25/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0420		0.1000		42.0	25	124			
Surr: Octacosane	0.0885		0.1000		88.5	51	124			

Sample ID: **LCS-112641** Batch ID: **112641** TestNo: **M8015D** Units: **mg/L**
SampType: **LCS** Run ID: **GC15_231026A** Analysis Date: **10/26/2023 10:32:30 A** Prep Date: **10/25/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.06	0.100	1.250	0	84.9	50	114			
Surr: Isopropylbenzene	0.0533		0.1000		53.3	25	124			
Surr: Octacosane	0.0896		0.1000		89.6	51	124			

Sample ID: **LCSD-112641** Batch ID: **112641** TestNo: **M8015D** Units: **mg/L**
SampType: **LCSD** Run ID: **GC15_231026A** Analysis Date: **10/26/2023 10:41:22 A** Prep Date: **10/25/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.984	0.100	1.250	0	78.7	50	114	7.54	30	
Surr: Isopropylbenzene	0.0473		0.1000		47.3	25	124	0	0	
Surr: Octacosane	0.0838		0.1000		83.8	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: TRC Environmental Corp.
Work Order: 2310175
Project: HFS North Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_231026A

The QC data in batch 112659 applies to the following samples: 2310175-01B, 2310175-02B, 2310175-03B, 2310175-04B, 2310175-05B, 2310175-08B

Sample ID: **LCS-112659** Batch ID: **112659** TestNo: **M8015V** Units: **mg/L**
SampType: **LCS** Run ID: **GC4_231026A** Analysis Date: **10/26/2023 3:09:32 PM** Prep Date: **10/26/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.59	0.100	2.500	0	104	67	136			
Surr: Tetrachlorethene	0.345		0.4000		86.3	74	138			

Sample ID: **LCSD-112659** Batch ID: **112659** TestNo: **M8015V** Units: **mg/L**
SampType: **LCSD** Run ID: **GC4_231026A** Analysis Date: **10/26/2023 3:32:27 PM** Prep Date: **10/26/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.58	0.100	2.500	0	103	67	136	0.128	30	
Surr: Tetrachlorethene	0.362		0.4000		90.5	74	138	0	0	

Sample ID: **MB-112659** Batch ID: **112659** TestNo: **M8015V** Units: **mg/L**
SampType: **MBLK** Run ID: **GC4_231026A** Analysis Date: **10/26/2023 4:41:20 PM** Prep Date: **10/26/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	<0.0600	0.100								
Surr: Tetrachlorethene	0.350		0.4000		87.5	74	138			

Sample ID: **2310175-08BMS** Batch ID: **112659** TestNo: **M8015V** Units: **mg/L**
SampType: **MS** Run ID: **GC4_231026A** Analysis Date: **10/26/2023 7:19:00 PM** Prep Date: **10/26/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.68	0.100	2.500	0.2922	95.4	67	136			
Surr: Tetrachlorethene	0.291		0.4000		72.7	74	138			S

Sample ID: **2310175-08BMSD** Batch ID: **112659** TestNo: **M8015V** Units: **mg/L**
SampType: **MSD** Run ID: **GC4_231026A** Analysis Date: **10/26/2023 7:41:36 PM** Prep Date: **10/26/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-GRO (C6-C10)	2.64	0.100	2.500	0.2922	93.9	67	136	1.33	30	
Surr: Tetrachlorethene	0.302		0.4000		75.6	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: TRC Environmental Corp.
Work Order: 2310175
Project: HFS North Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_231020A

The QC data in batch 112575 applies to the following samples: 2310175-01A, 2310175-02A, 2310175-03A, 2310175-04A, 2310175-05A, 2310175-06A

Sample ID: **LCS-112575** Batch ID: **112575** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_231020A** Analysis Date: **10/20/2023 11:41:00 A** Prep Date: **10/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0257	0.00100	0.0232	0	111	81	122			
Ethylbenzene	0.0255	0.00100	0.0232	0	110	80	120			
Toluene	0.0256	0.00200	0.0232	0	110	80	120			
Total Xylenes	0.0765	0.00100	0.0696	0	110	80	120			
Surr: 1,2-Dichloroethane-d4	198		200.0		99.0	72	119			
Surr: 4-Bromofluorobenzene	200		200.0		100	76	119			
Surr: Dibromofluoromethane	190		200.0		94.9	85	115			
Surr: Toluene-d8	197		200.0		98.5	81	120			

Sample ID: **2310164-03AMS** Batch ID: **112575** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS7_231020A** Analysis Date: **10/20/2023 12:18:00 P** Prep Date: **10/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.491	0.0200	0.464	0	106	81	122			
Ethylbenzene	0.487	0.0200	0.464	0	105	80	120			
Toluene	0.483	0.0400	0.464	0	104	80	120			
Total Xylenes	1.44	0.0200	1.39	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	3730		4000		93.2	72	119			
Surr: 4-Bromofluorobenzene	4270		4000		107	76	119			
Surr: Dibromofluoromethane	3760		4000		94.1	85	115			
Surr: Toluene-d8	3870		4000		96.7	81	120			

Sample ID: **2310164-03AMSD** Batch ID: **112575** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS7_231020A** Analysis Date: **10/20/2023 12:43:00 P** Prep Date: **10/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.536	0.0200	0.464	0	115	81	122	8.81	20	
Ethylbenzene	0.529	0.0200	0.464	0	114	80	120	8.31	20	
Toluene	0.537	0.0400	0.464	0	116	80	120	10.6	20	
Total Xylenes	1.56	0.0200	1.39	0	112	80	120	7.65	20	
Surr: 1,2-Dichloroethane-d4	3740		4000		93.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	3760		4000		94.0	76	119	0	0	
Surr: Dibromofluoromethane	3810		4000		95.2	85	115	0	0	
Surr: Toluene-d8	3910		4000		97.8	81	120	0	0	

Sample ID: **MB-112575** Batch ID: **112575** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_231020A** Analysis Date: **10/20/2023 1:41:00 PM** Prep Date: **10/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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: TRC Environmental Corp.
Work Order: 2310175
Project: HFS North Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_231020A

Sample ID: **MB-112575** Batch ID: **112575** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_231020A** Analysis Date: **10/20/2023 1:41:00 PM** Prep Date: **10/20/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000300	0.00100								
Ethylbenzene	<0.000300	0.00100								
Toluene	<0.000600	0.00200								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	189		200.0		94.5	72	119			
Surr: 4-Bromofluorobenzene	202		200.0		101	76	119			
Surr: Dibromofluoromethane	188		200.0		94.2	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	Page 4 of 6
	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: TRC Environmental Corp.
Work Order: 2310175
Project: HFS North Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_231025A

The QC data in batch 112643 applies to the following samples: 2310175-08A, 2310175-09A

Sample ID: **2310206-02AMS** Batch ID: **112643** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS7_231025A** Analysis Date: **10/25/2023 12:51:00 P** Prep Date: **10/25/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.541	0.0200	0.464	0	117	81	122			
Ethylbenzene	0.530	0.0200	0.464	0	114	80	120			
Toluene	0.529	0.0400	0.464	0	114	80	120			
Total Xylenes	1.58	0.0200	1.39	0	113	80	120			
Surr: 1,2-Dichloroethane-d4	3700		4000		92.4	72	119			
Surr: 4-Bromofluorobenzene	3920		4000		98.1	76	119			
Surr: Dibromofluoromethane	3900		4000		97.5	85	115			
Surr: Toluene-d8	3840		4000		96.0	81	120			

Sample ID: **2310206-02AMSD** Batch ID: **112643** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS7_231025A** Analysis Date: **10/25/2023 1:17:00 PM** Prep Date: **10/25/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.568	0.0200	0.464	0	122	81	122	4.94	20	
Ethylbenzene	0.554	0.0200	0.464	0	119	80	120	4.54	20	
Toluene	0.561	0.0400	0.464	0	121	80	120	5.91	20	S
Total Xylenes	1.65	0.0200	1.39	0	118	80	120	4.55	20	
Surr: 1,2-Dichloroethane-d4	3770		4000		94.2	72	119	0	0	
Surr: 4-Bromofluorobenzene	4040		4000		101	76	119	0	0	
Surr: Dibromofluoromethane	3820		4000		95.4	85	115	0	0	
Surr: Toluene-d8	3900		4000		97.6	81	120	0	0	

Sample ID: **LCS-112643** Batch ID: **112643** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_231025A** Analysis Date: **10/25/2023 2:19:00 PM** Prep Date: **10/25/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0237	0.00100	0.0232	0	102	81	122			
Ethylbenzene	0.0233	0.00100	0.0232	0	101	80	120			
Toluene	0.0236	0.00200	0.0232	0	102	80	120			
Total Xylenes	0.0701	0.00100	0.0696	0	101	80	120			
Surr: 1,2-Dichloroethane-d4	186		200.0		92.9	72	119			
Surr: 4-Bromofluorobenzene	200		200.0		100	76	119			
Surr: Dibromofluoromethane	191		200.0		95.5	85	115			
Surr: Toluene-d8	198		200.0		98.8	81	120			

Sample ID: **MB-112643** Batch ID: **112643** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_231025A** Analysis Date: **10/25/2023 3:12:00 PM** Prep Date: **10/25/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000300	0.00100								

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: TRC Environmental Corp.
Work Order: 2310175
Project: HFS North Monument

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_231025A

Sample ID: **MB-112643** Batch ID: **112643** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_231025A** Analysis Date: **10/25/2023 3:12:00 PM** Prep Date: **10/25/2023**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	<0.000300	0.00100								
Toluene	<0.000600	0.00200								
Total Xylenes	<0.000300	0.00100								
Surr: 1,2-Dichloroethane-d4	186		200.0		92.8	72	119			
Surr: 4-Bromofluorobenzene	208		200.0		104	76	119			
Surr: Dibromofluoromethane	192		200.0		95.8	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

Analytical Data Review Checklist		
Site: North Monument Release Site Location: Lea County, NM Client Name: HF Sinclair Project #: 574868.0000.0000	Laboratory: DHL Analytical (Round Rock, TX) Laboratory Report #(s): 2310175	QA Reviewer: Megan Yonts Date: 2/7/24 Peer Reviewer: Audrey Eljuri Date: 3/23/24
Analytical Method(s): BTEX (SW-846 8270D); TPH GRO (SW-846 8015); DRO (SW-846 8015)	Matrices Sampled: Groundwater; aqueous QA/QC samples	Sample Collection Date(s): 10/19/23
Sampling Objective(s): Quarterly Groundwater Monitoring		
Sample IDs: Refer to laboratory data package.		

	Review Item or Question	Y	N	NA	Comments[1]
Usability Assessment					
	Sample Traceability / Chain of Custody				
1	Was the COC form appropriately completed?		X		Per the sample receipt checklist, MW-6 was listed on the COC received on 10/20/23, but MW-6 containers were not included in the cooler. The equipment blank should also not have been included in the COC received on 10/20/23 and the laboratory correctly did not report the equipment blank results.
2	Did the laboratory report correct sample IDs?		X		Trip Blank-2 is written as Trip Blank 2 on the COC.
3	Do the laboratory reported sample collection dates and times agree with the COC form?	X			
	Sample Preservation and Integrity				
4	Did samples arrive at the laboratory appropriately preserved?	X			
	Was the cooler temperature between 0-6°C when required?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC and TPH samples preserved in the field or collected in EnCore® samplers when required?			X	
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?	X			Refer to Item 1.

	Review Item or Question	Y	N	NA	Comments[1]
7	Were sample preparation and analysis HT requirements met?	X			
8	Air Samples Collected in Evacuated Canisters Only: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
	Data Completeness				
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			
13	Were soil/sediment results reported on a dry weight basis?			X	
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?			X	
15	Did the laboratory provide the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
	Sensitivity				
16	Do the detection limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Did the laboratory utilize the correct detection limits (e.g., QLs, RLs, MDLs, LODs, etc.)?	X			
18	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).		X		
19	Did the laboratory provide an adequate explanation as to why dilutions were performed?			X	
	QC Results				
20	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
21	Does each analytical or preparation batch have its own method blank?	X			

	Review Item or Question	Y	N	NA	Comments[1]
22	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples.		X		Trip Blank-1 and Trip Blank-2
23	Are there any potential false positive results based on questions 20 and/or 22? Note: This project reports analyte concentrations only down to the QL (no MDLs reported); therefore, there are no laboratory J-qualified results. Based on this data protocol, qualification of the data was performed as follows: • Sample results ≥QL but < the associated blank action limit were qualified as nondetects (U) at the reported concentration (organics) or as estimated with a potential high bias (J+) (inorganics). Action limits are calculated as 2x blank concentration for organics and 10x blank concentration for inorganics. • Qualification was not required for nondetect (ND) results or for positive results ≥ the associated blank action limit.		X		
24	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.	X			
25	Does each analytical or preparation batch have its own LCS?	X			
26	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs and the affected samples.	X			
27	Are MS/MSD recoveries within QC limits? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.	X			A MS/MSD was performed on project sample MW-6 for TPH GRO.
28	Are MS/MSD RPDs within QC limits? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.	X			

	Review Item or Question	Y	N	NA	Comments[1]
29	Are laboratory duplicate RPDs within QC limits? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	
30	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria are RPD ≤50 for solid samples and RPD ≤30 for aqueous samples when results are >5x the reporting limit; otherwise, these RPD criteria are doubled, OR these results may be evaluated based on the AbsD, which should be ≤2×QL for solid samples or ≤QL for aqueous samples.	X			Field duplicate pair MW-5 and Duplicate-01 met project criteria.
31	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.	X			
	Laboratory Comments				
32	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach laboratory narrative and highlight the comments that have potential impact to sample results).		X		
33	Were any other potential data quality issues identified? If yes, describe issues.		X		
	Do the Data Make Sense?				
34	Do any results look suspect or questionable? If yes, ASK THE LAB and CONTACT the project team!		X		
35	Has the EDD been compared with the laboratory report?	X			

(1) Validation actions are generally based on the following EPA National Functional Guidelines documents(s) but may be modified based on project requirements or professional judgement: EPA National Functional Guidelines for Organic/Inorganic Superfund Methods Data Review (EPA-540-R-20-005/EPA-542-R-20-006), November 2020

Acronyms:

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes
COC = Chain of Custody
DRO = Diesel Range Organics
EDD = Electronic Data Deliverable
GRO = Gasoline Range Organics
HT = Holding Time
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate

Review Item or Question	Y	N	NA	Comments[(1)]
LOD = Limit of Detection MDL = Method Detection Limit MS/MSD = Matrix Spike / Matrix Spike Duplicate ND = Nondetect QA = Quality Assurance QC = Quality Control QL = Quantitation Limit RL = Reporting Limit RPD = Relative Percent Difference = 100% ×|(A-B)/((A+B)/2)| TPH = Total Petroleum Hydrocarbons **Definitions of Data Qualifiers (USEPA)**: None **Additional Comments:** None				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 328036

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 328036
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Site Status Report for 2023, HF Sinclair, N. Monument 6 in. Gathering Line: Content Satisfactory 1. EFR schedule may be reduced from monthly to a quarterly schedule. 2. HF Sinclair may transition to a semi-annual schedule for groundwater monitoring events until all COCs are below the allowable concentrations, and then transition back to a quarterly schedule to collect eight (8) monitoring quarterly events for the incident closure requirement. 3. Include site investigation activities in next monitoring reports as well as conditions and any recommendations for incident remediation. 4. Submit the 2024 annual report to OCD by April 1, 2025.	7/8/2024