

Hydrogeologic Investigation Report Underground Injection Control Wells HF Sinclair Navajo Refining LLC

Submitted to

New Mexico Energy, Minerals, and
Natural Resources Department
Oil Conservation District

Prepared by



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Executive Summary

On behalf of HF Sinclair Navajo Refining LLC (HFSNR), Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this report for a hydrogeologic investigation in Eddy County, New Mexico at four underground injection control (UIC) wells: WDW-1 (S-31-17S-28E), WDW-2 (E-12-18S-27E), WDW-3 (N-01-18S-27E), and WDW-4 (N-01-18S-27E).

The project was performed as part of the permitting requirements at the request of the New Mexico Energy, Minerals, and Natural Resources Department (NMEMNRD) Oil Conservation Division (OCD) to determine the presence or absence of underground sources of drinking water (USDWs) at four UIC wells. The investigation was conducted in two phases to determine whether groundwater was encountered in significant quantities. If groundwater was encountered during drilling, monitor wells would be completed and sampled.

The first phase, in 2024, advanced three borings to 150 feet below ground surface (bgs). The second phase, in 2025, advanced one boring to 500 feet bgs. The first phase focused on the possibility of shallow groundwater being present in a perched aquifer and the second phase investigated to 500 feet bgs for perched or regional groundwater.

At WDW-1, the second phase was originally delayed due to access issues with a third party; therefore, an investigation was not completed at this site during the initial hydrogeologic investigation. Before the field work for the second phase began, OCD and HFSNR agreed that the investigation would drill to 500 feet bgs.

For the first phase, boreholes were drilled at three UIC well locations: WDW-2-BH-1, WDW-3-BH-1, and WDW-4-BH-1. Cascade Environmental® (Cascade) used a sonic drill rig for collecting soil cores at 5-foot intervals to a total depth of 150 feet bgs for evaluation of lithology and water content by the on-site DBS&A geologist. At the request of OCD, boreholes WDW-2-BH-1 and WDW-3-BH-1 were deepened to 160 feet bgs.

Two borings (WDW-2 and WDW-3) were advanced into the Salado Formation and continued into the Tansill Formation. The boring at WDW-4 was advanced into the Tansill Formation. The lithology encountered was predominantly interbedded clay and anhydrite (CaSO₄), with minor amounts of siltstone and dolomite. The lithologies observed likely have limited permeability; therefore, movement of groundwater will be limited by the low permeability of the geologic units and the anisotropic nature of the interbedded units.



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Groundwater in a perched or regional aquifer was not encountered in any of the borings, so no significant water-bearing zones were identified. Therefore, monitor wells were not installed and water quality samples were not collected.

One thin siltstone layer was observed with potential saturation in WDW-3-BH-1 at 80 feet bgs. The borehole was evaluated by allowing the borehole to remain open overnight (approximately 15 hours), and no water was detected in the shallow boreholes. This apparent saturation was not representative of a saturated water-bearing zone, and was determined to be an artifact from sonic drilling, which requires the addition of some water while advancing the core barrel and drill string.

In April 2025, second phase activities at UIC well WDW-1 were performed once permission to access the site for drilling and construction had been granted. The lithology was predominantly interbedded clay and anhydrite, with minor amounts of siltstone and dolomite. A water-bearing zone was encountered at approximately 308 feet bgs in a saturated gravelly sand unit. Drilling continued to a total depth of 500 feet bgs, at which point a monitor well, WDW-1-MW-1, was installed within the only significant water-bearing zone identified, with screen across the gravelly sand at 308 feet bgs. The groundwater elevation rose about 34 feet above the water-bearing unit, indicating artesian conditions in the aquifer.

Water quality samples were collected from the monitor well. Initial and first-quarter monitoring results indicate that the groundwater is brackish, with total dissolved solids (TDS) concentrations of 4,500 and 4,600 milligrams per liter (mg/L). The samples do not appear to be a mixture of effluent and local groundwater based on chloride and sulfate concentrations. WDW-1-MW-1 will continue to be monitored quarterly to support a more comprehensive understanding of long-term water quality dynamics.

At WDW-1-MW-1, analyses of hydrogeologic conditions, hydraulics, and water chemistry indicate that UIC well WDW-1 has not impacted the aquifer encountered in the Tansill Formation.



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1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this hydrogeologic investigation report on behalf of HF Sinclair Navajo Refining LLC (HFSNR) at the request of the New Mexico Energy, Minerals, and Natural Resources Department (NMEMNRD) Oil Conservation Division (OCD). OCD required HFSNR to install groundwater monitor wells at each of HFSNR's four permitted and operational UIC wells: WDW-1, WDW-2, WDW-3, and WDW-4.

Documentation and analysis are presented in this report for borings WDW-1-MW-1, WDW-2-BH-1, WDW-3-BH-1, and WDW-4-BH-1. The investigation was conducted in two phases to determine whether groundwater was encountered in significant quantities. The WDW-1 location was initially inaccessible due to pending land access permissions, and these permissions were obtained in April 2025, allowing the investigation to proceed. The four UIC well locations are presented in Figure 1. Groundwater investigation borehole locations are shown on Figures 2a through 2d.

The hydrogeologic investigation examined the geologic strata for any water-bearing unit downgradient of each UIC well (WDW-1, -2, -3 and -4) to determine the presence of saturated conditions. The hydrologic investigation occurred to depths of 500 feet bgs at WDW-1, 160 feet bgs at WDW-2 and WDW-3, and 150 feet bgs at WDW-4. Boreholes and the single monitor well were completed as described in the work plan approved by OCD on April 20, 2023 (Appendix A). This hydrogeologic investigation met requirements as stated in Condition 2B of the UIC discharge permits (UICI-008-1, UICI-008-2, UICI-008-3, and UICI-008-4).

1.1 Regulatory Framework

HFSNR is permitted for operation of UIC Class I non-hazardous waste UIC wells WDW-1, WDW-2, WDW-3, and WDW-4 under discharge permits UICI-008-1, UICI-008-2, UICI-008-3, and UICI-008-4, with approval by OCD under the rules governing underground injection (Section 20.6.2.5000 of the New Mexico Administrative Code [20.6.2.5000 NMAC]). OCD approved the current discharge permits pursuant to 20.6.2.3109A NMAC.

Information regarding the UIC WDW wells is provided in Appendix B. The wells are identified as follows:



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- WDW-1 UICI-8-1 (API#: 30-015-27592) is located approximately 11 miles east-southeast of Artesia on Hwy 82 from Hwy 285, and about 1 mile south of Hilltop Road. UL: S, Section 31 Township 17 South, Range 28 East, 660 FSL 2310 FEL Lat. 32.78517, Long. -104.21376, NMPM, Eddy County, New Mexico.
- WDW-2 UICI-8-2 (API#: 30-015-20894) is located approximately 10.5 miles east-southeast of Artesia on Hwy 82 from Hwy 285, and about 3.3 miles south of Hilltop Road. UL: E, Section 12 Township 18 South, Range 27 East, 1980 FNL 660 FWL Lat. 32.76366, Long. -104.23848, NMPM, Eddy County, New Mexico.
- WDW-3 UICI-8-3 (API#: 30-015-26575) is located approximately 10.5 miles south-southeast of the intersection of I-285 and Hwy 82, or approximately 2.75 miles south of Hwy 82 and CR 225. UL: N, Section 1 Township 18 South, Range 27 East, 790 FSL 2250 FWL Lat. 32.77121, Long. -104.23328, NMPM, Eddy County, New Mexico.
- WDW-4 UICI-8-4 is located approximately 8.5 miles east-southeast of Artesia on Hwy 285 and Hwy 82, on the north side of Hwy-82. UL: N, Section 23 Township 17 South, Range 27 East, 1,215 FSL 2,445 FWL, Lat. 32.81581, Long. -104.25003, NMPM, Eddy County, New Mexico.

1.2 Existing UIC Wells

1.2.1 Facility Description

HFSNR is a petroleum refinery located at 501 East Main Street in Artesia, New Mexico. The UIC wells are used to inject treated, industrial, non-hazardous fluids produced from the Artesia Refinery in Artesia, New Mexico. Treated effluent from the process units, cooling towers, boilers, streams from water purification units, desalting units, and recovered and treated groundwater are transmitted via subsurface pipeline from the refinery approximately 10 miles east-southeast before injection into each WDW well. The effluent is a high total dissolved solids (TDS) concentrate, which is injected into each WDW well.

1.2.2 Discharge Permits WDW-1, WDW-2, WDW-3 and WDW-4

On December 11, 2017, OCD issued "Approval of Discharge Permit Renewals for WDW-1 (UICI-8-1), WDW-2 (UICI-8-2), and WDW-3 (UICI-8-3) for Class I (Non-hazardous) Waste Injection Wells HollyFrontier Navajo Refining, LLC, Eddy County, New Mexico" (OCD, 2017a). On December 14, 2017, OCD issued "Approval of Discharge Permit Renewals for WDW-4 (UICI-8-4)



for Class I (Non-hazardous) Waste Injection Wells HollyFrontier Navajo Refining, LLC, Eddy County, New Mexico" (OCD, 2017b).

1.3 Permit Conditions and Need for Project

1.3.1 Section 2.B

Groundwater monitor wells are required under Section 2B of each discharge permit (as named in Section 1.2.2). Section 2.B states the following:

Groundwater Monitoring Wells. At least one groundwater monitoring well shall be installed in proximity of and hydrogeologically downgradient from [WDW-1, WDW-2, WDW-3, WDW-4]. The monitoring well(s) shall be screened into the uppermost water-bearing unit using 15 feet of well screen with the top of the screened interval positioned 5 feet above the water table. The Permittee shall propose a monitoring frequency with analytic and monitoring parameters to detect potential groundwater contamination.

Per this permit requirement, drillers were mobilized for work to be completed as directed in the approved work plan (Appendix A). Any potential UIC well impacts to groundwater from a spill, leak, or accidental discharge would be expected near ground surface at a depth of 100 to 150 feet below ground surface (bgs) as stated in the approved discharge permits. Borings were drilled to at least 150 feet bgs; borings at WDW-2 and WDW-3 were drilled to 160 feet bgs, while the boring at WDW-1 was drilled to 500 feet bgs.

1.3.2 Scope of Work Development

This report includes a detailed description of the groundwater monitor well borehole investigation as part of OCD's request and UIC discharge permits (UICI-008-1, UICI-008-2, UICI-008-3, and UICI-008-4). The work met requirements as stated in discharge permits Section 2.B, the work plan (Appendix A), and OCD e-mailed instructions (e-mail from Carl Chavez on September 13, 2022), as follows:

At least one groundwater monitoring well shall be installed in proximity of and hydrogeologically downgradient from WDW-2. The monitoring well(s) shall be screened into the uppermost water-bearing unit using 15 feet of well screen with the top of the screened interval positioned 5 feet above the water table. (Discharge permit Section 2B)

Objective: Place a groundwater monitoring well within 50 ft hydrogeologically [later OCD approved extending to a 75-foot radius] downgradient from each WDW injection well location with a quarterly monitoring schedule consistent with related permit reporting. Monitor well



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construction shall be as prescribed by the current permit or as approved by the OCD based on site-specific conditions. Provide well logs with water quality (i.e., General Chemistry, TPH and BTEX) data from completed and/or constructed MWs to complete the WQCC Public Notice process.

DBS&A completed the hydrogeologic investigation in two phases. The first phase included drilling at WDW-2, WDW-3, and WDW-4 (Figures 1 and 2a through 2c). The second phase of the investigation at the WDW-1 (Figures 1 and 2d) location was completed in 2025. For this project, OCD defined a significant water-bearing zone as a lithologic unit capable of producing a sufficient volume of water that could be sampled from a monitor well.

During the field program, all work conducted was approved and communicated with OCD.

2. Hydrogeologic Setting

The HFSNR UIC wells are located east of Artesia, New Mexico, which lies in the Pecos River valley. The Pecos River is a perennial stream with numerous ephemeral washes that drain the surrounding area. The region is semiarid, with a majority of rain occurring during the summer monsoon season.

The geology of this area is dominated by Paleozoic sedimentary rocks that dip east into the subsurface with outcrops forming mesas. Much of the outcropping bedrock is covered with aeolian sand, soil, and alluvium. The Pecos River has created a sediment-filled valley containing alluvial and fluvial deposits.

Water resources in the area include surface water of the Pecos River and groundwater in three regional aquifer systems that may contain USDW. The major aquifer systems include the following:

- Pecos Valley Alluvium Aquifer
- Roswell Artesian Basin (RAB) Aquifer
- Rustler Aquifer

In the area of southeastern New Mexico, the Capitan Limestone and the Santa Rosa Sandstone are important aquifers. However, these geologic units do not occur at or nearby the investigated UIC wells, so characteristics for these aquifers are not presented.



The following subsections provide descriptions of the physiography, geology, and hydrogeology of the region and UIC wells study area.

2.1 Physiography of Area

The landscape is dominated by the Pecos River near the town of Artesia, with the Sacramento Mountains to the west and mesas armored with a caliche caprock to the east. The Pecos River Valley is an area of extensive agricultural development (Welder, 1983) due to surface water supplies from the Pecos River and groundwater from the alluvial aquifer in the Pecos Valley and the RAB.

The eastern slope of the Sacramento Mountains is known as the Pecos Slope, and it grades into the Pecos Valley (Kelley, 1971). Along the Pecos Slope, geologic units including the Yeso Formation, San Andres Limestone, and Glorieta Sandstone outcrop and dip shallowly eastward beneath the river and the UIC wells study area. East of the Pecos Valley is the Llano Estacado or staked plains with the highest elevation of about 4,290 feet above mean sea level (feet msl) at the Caprock on mesas near Maljamar, New Mexico. East of the Pecos River, Paleozoic bedrock dips shallowly toward the east creating a series of mesas. Bedrock strikes or outcrops in north-south bands in the area (Figure 3).

The Pecos River flows southward creating a wide valley of alluvium; as it has moved eastward in recent geologic time due to the uplift of the Sacramento Mountains, it has caused a regional shift in the topography. The elevation of the Pecos River east of Artesia, New Mexico is approximately 3,330 feet msl; the highest peak of the Sacramento Mountains, Sierra Blanca, has an elevation of 11,973 feet msl. The ground surface elevation at the UIC well sites is about 3,600 feet msl.

Weather data are available from the National Weather Service (www.weather.gov) for Artesia, New Mexico. From 1905 to the present, annual precipitation amounts range from a minimum of about 4 inches to a maximum of 25 inches, with a mean value of about 11.6 inches; the majority of rainfall occurs during summer monsoon events. Mean temperatures range from a minimum mean value of 4°F to a maximum mean value of 106°F, with an overall annual mean value of 60°F. The resulting climate is considered semiarid, and is typically dry and warm.

2.2 Geology of Area

Surface geology of the area is dominated by Paleozoic bedrock units consisting of marine sedimentary rocks that have Holocene sediments deposited upon the older rocks (Figure 3).



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Rock units of interest vary in geologic age from the oldest Ordovician Ellenburger Formation to the youngest Quaternary alluvium of the Pecos Valley (Comer, 1991) (Table 1 and Figure 3). Geologic names are discussed in this report using southeastern New Mexico stratigraphic nomenclature; equivalent units may have different names in the Sacramento Mountains and elsewhere in New Mexico.

There are very few geologic structures in the vicinity of Artesia, New Mexico. West of the site is the Vacuum-Artesia Arch, an anticlinal fold. There are no major faults near the UIC wells study area, and there is some fracturing of brittle units, usually due to the dissolution and collapse of older evaporite units.

2.2.1 Geologic History

The geologic history of the area is dominated by marine depositional environments. The majority of the rocks from the Ellenburger Formation to the Santa Rosa Sandstone are from marine and near-marine environments like the San Andres Limestone with lesser amounts of subaerial, often fluvial deposits like the Abo Formation.

The Delaware Basin is an important geologic feature of the area extending from southeastern New Mexico into western Texas, and it is a part of the larger Permian Basin. During the Paleozoic Era, the area was an extensive marine environment including several depositional environments: offshore reef, deep marine, and near shore salt flats (Powers et al., 2006). The Delaware Basin covers over 17,000 square miles and contains over 24,000 vertical feet of sedimentary rocks that host natural resources such as petroleum, gas and water (Land, 2003). The Northwest Shelf extends across southeastern New Mexico and contains a thinner sequence of sedimentary rocks (Land, 2003). The Capitan Reef, or Capitan Limestone, is a massive limestone deposit that is exposed in the Guadalupe Mountains and dips into the subsurface in southern Eddy County, New Mexico and west Texas. The limestone formation is a water source for Carlsbad, New Mexico. The Capitan Limestone is not present near Artesia, New Mexico at the UIC well sites investigated for this study.

Northwest of the marine environment where the limestone was deposited, a depositional environment ranging from a saline marine lagoon to salt pan-mudflats accumulated sediments on the Northwestern Shelf or shallow margin of the Delaware Basin (Powers et al., 2006). Rocks formed on the back reef and shelf away from the Capitan Reef include formations in the Artesia Group. Younger rocks in the Salado and Rustler Formations were deposited across the entire region.



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The youngest bedrock in the area is the Triassic Santa Rosa Sandstone and it outcrops to the east of the UIC wells study area. Deposition and rock formation continued through the Cretaceous Period with the Mesa Verde Formation being present in southeastern New Mexico. These rocks have been removed by weathering and erosion along the Pecos Slope to the Llano Estacado. The Paleozoic rocks have been buried to depths over 1 mile allowing for weathering and diagenesis reactions to occur including cementation, evaporite dissolution, evaporite cementation, and carbonate formation.

2.2.2 Stratigraphy and Lithology of Rock Units

In the UIC wells study area, the stratigraphic sequence extends from the Devonian to the Quaternary (Table 1). The conceptual hydrogeologic cross section presented in Figure 4 was drawn based on the geology encountered during the drilling of WDW-4 and WDW-1, as well as the geologic data in Kelley (1971), and Mercer (1983). Due to the depth of the cross section and the need to display the units, the vertical exaggeration is 10 times the horizontal scale. This exaggeration also impacts how the geologic dip is displayed, and makes the dips appear steeper than observed in the field. The bedrock is dipping to the east at about 1.5° to 2° (Kelley, 1971), and is exaggerated to about 15° on the cross section. UIC wells WDW-1, WDW-2, WDW-3, and WDW-4 have been projected north onto the cross section, as indicated in Figure 4. By projecting wells WDW-1, WDW-2, and WDW-3 over 2 miles to the north, the geologic contact between the Salado and Tansill Formations is crossed, and the wells do not appear to intersect the Salado Formation on the cross section (Figure 4).

Stratigraphy and lithology are presented from the Rustler Formation to the Ellenburger Formation.

The Rustler Formation is a bedrock unit that consists of interbedded mudstone and gypsum. Halite may occur in subsurface, but may be dissolved near ground surface (Kelley, 1971). The clay and evaporites were deposited on salt mud flats (Powers et al., 2006). An influx of fresh water across the mudflat resulted in deposition of two dolomite units. These are the Magenta Dolomite and the Culebra Dolomite. The Culebra Dolomite is at the base of the formation and, due to permeability related to fracturing, is often considered an aquifer. The Rustler Formation is about 400 feet thick in the UIC wells study area.

The Salado Formation consists of interbedded mudstone and gypsum with minor amounts of dolomite (Kelley, 1971). Salt and potash minerals occur in the subsurface. The Salado Formation is about 100 feet thick in the UIC wells study area.



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The Artesia Group includes several formations (in descending order): the Tansill, Yates, Seven Rivers, Queen, and Grayburg Formations. These formations were deposited on the Northwest Shelf and include clay beds and evaporite beds (Kelley, 1971). The Artesia Group is considered a confining unit for the Roswell Artesian Aquifer.

The Tansill Formation is mostly dolomite transitioning to evaporite beds of gypsum toward the north. In the UIC wells study area, the lithology is interbedded gypsum and clay, with minor thin dolomite beds with a thickness of about 250 feet.

The Yates Formation has several lithologic types, including interbedded sandstone, siltstone, dolomite, and gypsiferous siltstone. In the UIC wells study area, the formation is mostly interbedded gypsum with thin dolomite beds about 1 to 2 feet thick (Kelley, 1971). The Yates Formation is about 90 feet thick in the UIC wells study area.

The Seven Rivers Formation forms the bluffs on the east side of the Pecos River Valley, and consists of interbedded gypsum, mudstone, and thin beds of dolomite (Kelley, 1971). The formation is about 580 feet thick in the UIC wells study area.

The Grayburg and Queen Formations are not differentiated in the geologic data for WDW-4; however, they are distinguished in the WDW-1 well completion report and log (Appendix C), and have accordingly been delineated in the cross section. Both formations consist of interbedded sandstone and mudstone with lesser amounts of dolomite (Kelley, 1971). Some interbedded gypsum beds may be present in the UIC wells study area. The Queen Formation is about 285 feet thick and the Grayburg Formation is about 500 feet thick.

The San Andres Limestone and Glorieta Sandstone are often combined as an aquifer system. The San Andres outcrops along most of the Pecos Slope, and both formations dip eastward into the subsurface west of the Pecos Valley. The San Andres Limestone consists of three members in southeastern New Mexico (Kelley, 1971) including the following:

- The Fourmile Draw Member consists of thin-bedded dolomite, gypsum, mudstone, and sandstone.
- The Bonney Canyon Member consists of thin-bedded dolomite and limestone.
- The Rio Bonito Member consists of thick-bedded dolomite, limestone, and sandstone.

Depending on the area and nomenclature, the Glorieta Sandstone and Rio Bonito Member are equivalent units. Based on the geology of WDW-1 and the geology of WDW-4, the combined thickness of the San Andres Limestone and Glorieta Sandstone ranges from 2,000 to 4,400 feet.



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The Yeso Formation consists of sandstone, siltstone, dolomite, and gypsum. When including the Tubb Formation, the combined thickness is about 750 feet.

The Abo Formation is one of the terrestrial units consisting of fluvial sandstone, siltstone, and mudstone. The Abo Formation is almost 1,200 feet thick in the UIC wells study area.

The Wolfcamp Formation is found in the subsurface throughout the Permian (Delaware) Basin. It consists of deep marine beds of calcareous shale interbedded with siliciclastic turbidite deposits (U.S. DOE, 2022). The Wolfcamp Formation is a major host for petroleum production in west Texas. The Wolfcamp Formation is about 1,220 feet thick in the UIC wells study area. WDW-1, WDW-2 and WDW-3 are used to inject into the Lower Wolfcamp Formation.

The Cisco Group consists of interbedded limestone and shale beds with lesser amounts of sandstone (Eargle, 1960). The Cisco Group is about 960 feet thick in the UIC wells study area.

The Canyon Group consists of interbedded limestone and shale beds (Eargle, 1960). The Canyon Group is about 230 feet thick in the UIC wells study area.

The Strawn Group consists of interbedded limestone and shale beds with lesser amounts of sandstone (Eargle, 1960). The Strawn Group is about 550 feet thick in the UIC wells study area.

The Chester Formation is a series of marine shales and limestones with minor sandstones. The Chester Formation is about 100 feet thick in the UIC wells study area.

The Mississippian Group and Woodford Shale act together as the confining unit for WDW-4. The Mississippian Group is an interbedded mix of limestone and shale with numerous chert beds (Lloyd, 1949). The Woodford Shale is described as a black shale interbedded with dolomite and chert (Lloyd, 1949). The combined thickness of these units is about 500 feet in the UIC wells study area.

The Devonian Section is the injection zone for WDW-4. The rocks are mostly limestones and dolomites (Lloyd, 1949). The Devonian Section is about 300 feet thick in the UIC wells study area.

The Simpson Group consists of interbedded limestone, dolomite, and shale with some sandstones. The Simpson Group is about 100 feet thick in the UIC wells study area.

The Ellenburger Formation is an Ordovician unit of interbedded limestone and dolomite units. The unit is reported to be 445 feet thick in Lea County, New Mexico (Lloyd, 1949).



2.3 Hydrology of Area

The UIC program is designed to protect groundwater in USDWs near injection wells. In the UIC wells study area, groundwater may occur in regional or perched aquifers. In New Mexico, 20.6.2.7.G NMAC defines groundwater as "interstitial water which occurs in saturated earth material and which is capable of entering a well in sufficient amounts to be utilized as a water supply." An aquifer is defined as "a saturated permeable geologic unit that can transmit significant quantities of water under ordinary hydraulic gradients (Freeze and Cherry, 1979)." Regional aquifers may occur over a large area within one or more geologic units. A regional aquifer may be confined between lower-permeability units that limit connectivity to other aquifers, or they may be unconfined occurring under water table conditions. A perched aquifer is typically of limited extent compared to regional aquifers and under water table conditions. Regional and perched aquifers may be USDWs.

The U.S. EPA (2012) defines an USDW as an aquifer that meets the following criteria:

- Supplies any public water system
- Contains a quantity of groundwater sufficient to supply a public water system, and
 - ◊ Currently supplies drinking water for human consumption or
 - ◊ Contains a TDS concentration below 10,000 milligrams per liter (mg/L) and is not an exempted aquifer

2.3.1 Occurrence of Groundwater

In the vicinity of Artesia, New Mexico, groundwater occurs in several regional aquifer systems including the following:

- Pecos Valley Alluvium Aquifer
- RAB Aquifer
- Rustler Aquifer

Local or perched aquifers may occur near recharge areas where permeable geologic units outcrop. Near the UIC wells study area, the Tansill Formation of the Artesia Group may receive sufficient recharge within fractured dolomite or siltstone units to form a perched aquifer. These permeable units are of limited thickness and interbedded with gypsum, so the perched aquifer may provide a limited supply of water.



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Near the UIC wells, the bedrock contains many evaporite minerals, like halite (NaCl) and anhydrite (CaSO₄). The halite units can account for tens to hundreds of feet of these formations, and the halite minerals are readily weathered and dissolved by infiltrating precipitation and groundwater, resulting in thinning of the total thickness of these geologic units. The dissolution may lead to collapse of the bedrock forming sinkholes. As these minerals dissolve, they create brackish groundwater. Locally, rocks may be brecciated due to localized collapse following halite dissolution, and the breccia fabric may be filled with a gypsum cement formed during diagenesis (Holt, 1997; Powers et al., 2006).

2.3.1.1 Review of Available Hydrogeologic Data

Hydrogeologic data were reviewed from available data collected while drilling the UIC wells, as well as UIC permits and available literature.

2.3.1.1.1 UIC Wells

UIC wells WDW-1, WDW-2 and WDW-3 are completed at a depth of 7,450 to 9,016 feet bgs in an injection zone within the lower Wolfcamp, Canyon, and Cisco Formations that is confined by the Upper Wolfcamp, Abo, and Yeso Formations from 4,000 to 7,450 feet bgs.

WDW-4 is completed in an injection zone of Devonian bedrock at a depth of 10,220 to 10,885 feet bgs that is confined by the Woodford Formation and Mississippian rocks.

The UIC wells do not penetrate rocks that host two of the three regional aquifers identified in Section 2. The wells are about 4 miles east of the Pecos Valley Alluvium Aquifer. The Rustler Aquifer outcrops east of the wells and dips away from the wells to the east. Thus, only the Roswell Artesian Aquifer would be located in the vicinity of the UIC wells.

The UIC wells—WDW-1, WDW-2, WDW-3, and WDW-4—penetrate the Grayburg and Queen Formations of the Artesia Group, which are part of the regional Roswell Artesian Aquifer (Figure 4). The data from WDW-4 drilling state that “usable” water was encountered in the Grayburg Formation, but no information about quantity or quality is available.

These wells also penetrate the Tansill Formation of the Artesia Group, which may host a perched aquifer in fractured, permeable portions of the aquifer.

2.3.1.1.2 Local Wells

Local wells that are permitted by the New Mexico Office of the State Engineer (OSE) were compiled by Petrotek (2022), and they are shown on the geologic map (Figure 3). Many of the



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wells have limited information, so water level data are sparse. Water quality data are not available from the OSE records.

Several wells are located near the UIC wells and are discussed in this section. The wells are identified with a water rights number that begins with RA for Roswell-Artesia basin and a sequential number. Some of the well have additional identifiers including "POD" for point of diversion and a sequential number or "S" for a supplemental well.

One livestock well, RA-12456 POD1, near WDW-4 has a reported water level of 92 feet bgs and total depth of 220 feet bgs. Based on the well location, the well appears to be completed in the Tansill Formation of the Artesia Group.

Well RA-4554, near WDW-4, was drilled in 1962 and has a reported water level of 40 feet bgs and total depth of 220 feet bgs. Based on this well's location, it appears to be completed in the Tansill Formation of the Artesia Group. This well's OSE permit states that the well's purpose was for the "prospecting or development of a natural resource."

The Riverside Mutual Domestic Water Association has four OSE permits (RA-1716, RA-7844, RA-7844 EXPL, and RA-1716 S) for locations west of WDW-4 and east of the Pecos River (Petrotek, 2022). The permits indicate that the wells have total depths of 1,200 to 1,300 feet; therefore, they appear to be completed in the Roswell Artesian Aquifer, probably in the Grayburg Formation and/or San Andres Limestone.

2.3.1.2 Regional Aquifer Systems

The three regional aquifer systems near the site are described in this section.

The RAB Aquifer system is recharged by precipitation and snowmelt in the Sacramento Mountains to the Yeso Formation. As the groundwater travels through the Yeso Formation down the mountains and the Pecos Slope, the groundwater leaks upward in the Glorieta Sandstone and San Andres Limestone. Groundwater continues flowing toward the Pecos River Valley under confined conditions, with geologic units of the Artesia Group acting as confining units (Welder, 1983). When the groundwater was first developed, wells would flow artesian at the ground surface. Water does leak upward from the Roswell Artesian Aquifer into the Pecos Alluvium Aquifer (Welder, 1983). There is some inter-aquifer connectivity or leakage between the San Andres Limestone, the Grayburg/Queen Formations, and the alluvial aquifer. The leakage is likely facilitated by breccia formed by dissolution of evaporites and other connected fractures in the rocks (Welder, 1983). The artesian aquifer supplies water to hundreds of wells



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for domestic and irrigation uses near Roswell and Artesia, New Mexico. East of the Pecos River Valley, groundwater quality becomes increasingly saline due to dissolution of evaporite minerals in the bedrock.

The Pecos Valley Alluvium Aquifer consists of gravels, sands, and silts deposited by the Pecos River. The aquifer extends from north of Roswell to south of Artesia, and is about 20 miles wide near Artesia (Welder, 1983). The river is currently located near the eastern boundary of the alluvium. The Pecos River is probably the main source of recharge to the aquifer, with a lesser amount of recharge from the leaky artesian aquifer. The main portion of the aquifer is about 250 to 300 feet thick (Welder, 1983). Water typically occurs under unconfined or water table conditions.

The Rustler Aquifer is found in permeable units such as the Culebra and Magenta Dolomite beds within the Rustler Formation. The dolomite units are no more than about 25 feet in thickness, and may include interbedded evaporite beds (Holt et al., 2006; Powers et al., 2006). Permeable zones in the Culebra (and Magenta) Dolomite are caused by dissolution of evaporite minerals in the Salado Formation due to collapse and fracturing (Mercer, 1983). Due to the interbedded units in the Rustler, hydraulic conductivity is greater in a horizontal direction parallel to bedding compared to vertical values resulting in anisotropy, so vertical groundwater movement is limited (Powers et al., 2006).

2.3.1.3 Local Perched Aquifer System

A local perched aquifer may be found in the Tansill Formation of the Artesia Group, and is likely limited in proximity to outcrop recharge areas. The Tansill Formation is an interbedded mixture of dolomite and evaporites. Groundwater would be found in fractured dolomite units that may be only 1 to 2 feet in thickness (Kelley, 1971). The perched aquifer would most likely have developed at the base of the formation, with limited downward movement of water into the Yates Formation due to the low permeability of the gypsum beds.

2.3.2 Movement of Groundwater

The discussion concerning the movement of groundwater is based on literature review and general concepts of groundwater movement. Water level data were not collected as part of this investigation.



2.3.2.1 Regional Aquifer System

Groundwater in the Roswell Artesian Aquifer moves from high elevations in the Sacramento Mountains eastward through rocks of the Pecos Slope and discharges into the Pecos Alluvium Aquifer. Wells are also a significant source of discharge for this aquifer system. Flow direction is eastward, sub-parallel to the Pecos River. Groundwater found east of the Pecos River and in the Grayburg Formation would move westward toward the Pecos River.

Groundwater movement in the Pecos Alluvium Aquifer is typically toward the Pecos River, but may be disrupted due to pumping of wells. Flow is typically to the east and sub-parallel to the Pecos River.

Near the UIC wells study area, groundwater movement in the Culebra dolomite of the Rustler Formation is away from outcrop areas where recharge occurs. Due to the heterogeneity of the interbedded units near the UIC wells study area, groundwater flow is likely to the east in the direction of the regional geologic dip. Regionally, groundwater movement in the Rustler Formation is toward the Pecos River (Mercer, 1983).

2.3.2.2 Local Perched Aquifer System

When a perched aquifer develops in the Tansill Formation, groundwater movement will likely be lateral flow away from recharge areas along outcrops, controlled by the anisotropy of the interbedded geologic units.

2.3.3 Chemical Quality of Groundwater

In New Mexico, water quality standards are defined in 20.6.2 NMAC. Numerical standards are defined in 20.6.2.3103, as "standards for ground water of 10,000 milligram per liter (mg/l) total dissolved solids (TDS) concentration or less." The numerical standards include a domestic value for chloride of 250 mg/L and TDS of 1,000 mg/L.

Groundwater is most likely to have the lowest concentrations of dissolved constituents near areas of recharge, lowest residence time in the aquifer, and in units with no or limited amounts of evaporite minerals.

Because water was not encountered during the first phase of the investigation, water quality samples were only collected during the second phase of drilling in 2025. Water quality results from WDW-1-MW-1 are discussed in Section 3.



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2.3.3.1 Regional Aquifer System

The eastern boundary of the Roswell Artesian Aquifer lies west of the UIC wells and “does contain saline water along its eastern fringe, east of the river and beyond the zone in which water circulates rapidly from the recharge area to the river discharge area” (Barroll and Shomaker, 2003). This eastern fringe is most likely the portion of the artesian aquifer in the Grayburg Formation.

Historically, chloride concentrations have ranged from 15 to 7,000 mg/L in the Roswell Artesian Aquifer and from 20 to 3,700 mg/L in the Pecos Alluvium Aquifer (Welder, 1983). The highest chloride concentrations tend to be north of the UIC wells study area close to Roswell, and would have corresponding TDS concentrations exceeding 10,000 mg/L. Water quality data for either aquifer are sparse east of Artesia.

Limited data are available for water quality in the Rustler Formation. Data from studies at the Waste Isolation Pilot Plant (WIPP) site indicate that a brine exists in the Rustler Formation with TDS concentrations ranging from 79,800 to 480,000 mg/L. These high concentrations are related to the dissolution of evaporite minerals (Mercer, 1983). Near the UIC wells study area, groundwater close to recharge areas on the outcrop would be expected to have lower TDS concentrations.

2.3.3.2 Local Perched Aquifer System

No water quality data are available for the perched aquifer in the Tansill Formation. Local wells completed in the Tansill Formation are mostly used for livestock watering.

2.3.4 Potential Beneficial Uses of Groundwater

Based on permits and available well information, beneficial uses of groundwater near the UIC wells study area include domestic, oil field maintenance, livestock, monitor, non-livestock water, prospecting for development of a natural resource, exploration, commercial, irrigation, and multi-domestic house (Petrotek, 2022).

2.3.5 Conceptual Groundwater Model

The groundwater conceptual model is discussed in Sections 2.3.1 and 2.3.2.



3. Hydrogeologic Investigation

The intent of the initial hydrogeologic investigation was to determine if groundwater occurred near the UIC wells to depths of 150 to 160 feet bgs. No groundwater was encountered in the boreholes drilled corresponding to WDW-2, WDW-3, and WDW-4.

A second hydrogeologic investigation was conducted in April 2025 in the vicinity of UIC well WDW-1. The investigation reached a total depth of 500 feet bgs. Groundwater was encountered at a depth of 308 feet bgs. A monitor well was completed, MW-1, and two quarterly groundwater samples were collected in June and August 2025.

3.1 Procedures and Methods

The borehole at WDW-4-BH-1 was advanced to 150 feet bgs as described in detail in the approved work plan (Appendix A). At OCD's request during real-time lithologic review, boreholes WDW-2-BH-1 and WDW-3-BH-1 were extended an additional 10 feet, for a total depth of 160 feet bgs. Utility clearance, permits, and drilling and waste handling procedures are provided in the work plan.

The groundwater investigation boreholes were drilled within 75 feet of the existing UIC wells to evaluate significant water-bearing zones to a total depth of 150 feet bgs or, as requested, to total depth of 160 feet bgs.

Evaluation of saturated lithology was completed as described in the approved work plan (Appendix A). Boreholes were advanced at each location (one borehole at each of the three accessible UIC well locations) using a sonic drilling method. The on-site DBS&A geologist evaluated core samples from the core barrel prior to advancement of the sonic outer casing. If any core samples had been identified as saturated, a temporary polyvinyl chloride (PVC) casing would have been installed in the borehole, and groundwater would have been allowed to fill the borehole for a period of 2 hours.

No saturated lithology was identified by the on-site geologist at any of the initial boreholes. No significant water-bearing zones were identified. Significant water-bearing zones were defined by OCD as any lithologic layers with saturated material.

Borehole WDW-3-BH-1 had one thin layer that was potentially saturated, and when the drilling reached total depth, the outer sonic casing was lifted to 75 feet bgs and remained open



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overnight to verify that no lithologic units would produce significant water. This zone did not appear to be saturated.

For the second phase and in accordance with the OCD requirements, borehole WDW-1-BH-1 was advanced to 500 feet bgs using sonic drilling methods. A thin zone of saturation was observed at approximately 308 feet bgs.

As outlined in the approved work plan (Appendix A), groundwater was allowed to fill the borehole over a period of two hours. Following this waiting period, bailing was attempted to remove any accumulated groundwater; however, the borehole was found to be dry, and drilling operations resumed.

Upon inspection the following day, the borehole was observed to contain water. Subsequent procedures were carried out in accordance with the approved work plan. This zone at 308 feet bgs in WDW-1-MW-1 was found to be a significant water-bearing zone.

3.2 Site Evaluation

3.2.1 Project Planning

DBS&A completed the groundwater investigation boreholes at each of the three accessible UIC wells at HFSNR (Figures 1 and 2a through 2d). Locations were pre-approved by OCD prior to field mobilization. In compliance with OCD, each of the four groundwater investigation borehole locations was installed southwest of (which was assumed to be hydrologically downgradient) and within 75 feet from each UIC well. Locations were placed as close as possible to the UIC wells to avoid existing infrastructure and existing UIC well access points. Groundwater investigation boreholes are labeled with UIC well ID in addition to the BH-1 designation; for example, the groundwater investigation borehole at WDW-4 was designated WDW-4-BH-1.

3.2.2 Permitting

HFSNR received permits from the U.S. Bureau of Land Management (BLM) and OSE prior to the initial groundwater borehole investigation. For the subsequent investigation, additional OSE permits were secured along with formal authorization from the relevant third-party.



3.2.2.1 *New Mexico Office of the State Engineer*

OSE form W-07 and Artesian Well Plan of Operations for potential monitor well installation were submitted, and permit approval was received prior to field mobilization.

3.2.2.2 *Bureau of Land Management*

The three wells investigated are on property owned by BLM. HFSNR is approved to operate and access the UIC well locations under right-of-way (ROW) permits obtained in 1999, 2003, and 2018, respectively, for UIC wells WDW-2, WDW-3, and WDW-4. The existing ROWs were amended to include a monitor well at each site. Land access was issued for OSE permitting by letter and BLM-approved ROW amendments based on SF-299 and 3160-3 (Appendix D).

3.2.3 **Utility Clearance**

Each of the four well locations was cleared for underground lines or utilities through proper channels: New Mexico One Call (NMOC) and refinery historical documents and maps. Each monitor well location was clearly marked with stakes and a white paint circle per NMOC direction.

In addition to the NMOC utility clearance, each monitor well location was evaluated with a hydrovac unit. Use of the hydrovac unit followed standard clearance procedure as directed by HFSNR, with the well location at the center of the 5-foot by 5-foot "L"-shaped excavation area and cleared to a depth of 10 feet. Hydrovac excavation results for each location were as follows:

- WDW-2-BH-1: Cleared with hydrovac and mechanical excavation to a depth of 10 feet.
- WDW-3-BH-1: Cleared with hydrovac to a depth of ~8 feet with refusal. No visible underground unknowns.
- WDW-4-BH-1: Cleared to a depth of 9 feet with refusal using mechanical excavation. No visible underground unknowns.
- WDW-1-MW-1: Cleared with hydrovac to a depth of 5.5 feet with refusal. No visible underground unknowns.

Approval by HFSNR and OCD was given for clearance at the above depths close to 10 feet with refusal. The excavated materials were visually inspected for evidence of environmental impacts. Impacts were not observed in any of the four hydrovac excavations. With the hydrovac excavation completed at these four locations, OCD issued approval to backfill with clean fill.



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The excavated materials were contained and transported within the vac truck to the refinery for safe storage and security. Materials were properly labeled, characterized, and then appropriately managed with off-site disposal.

The NMOC and hydrovac clearance were completed prior to any excavation by the drilling contractor.

3.3 Data Presentation

3.3.1 Field Investigation at WDW-1, WDW-2, WDW-3, and WDW-4

Boreholes were advanced to 150 feet bgs per the approved work plan (Appendix A) or as field requested by OCD to 160 feet bgs. Prior to drilling of the borehole at the WDW-1 location, OCD requested that the borehole be drilled to a depth of 500 feet bgs. Borehole lithology is presented in Appendix E. Photographs taken during the investigation are provided in Appendix F. Field notes are provided in Appendix G. All four borehole locations demonstrate lithology of interbedded clay with anhydrite indicative of the Tansill and Salado Formations. No significant water-bearing zones were encountered in the first three completed boreholes. A water-bearing zone was encountered in the fourth borehole at the WDW-1 location. During drilling, DBS&A staff maintained close communication with OCD and HFSNR project managers. OCD approved drilling completion at each borehole depth: WDW-2-BH-1 at 160 feet, WDW-3-BH-1 at 160 feet, WDW-4-BH-1 at 150 feet, and WDW-1-MW-1 at 500 feet. Monitor wells were not installed at WDW-2, -3, and -4 due to the absence of a significant water-bearing zone. A monitor well was installed at WDW-1 due to the presence of a significant water-bearing zone. The dry boreholes were plugged according to OSE permit conditions (Appendix D).

3.3.2 Sonic Drilling

Drilling was conducted by Cascade Environmental® (Cascade). Sonic drilling advanced each borehole to a total depth of 150, 160 or 500 feet bgs. Cascade drilled the boreholes with a 600-T Sonic rig using 6-inch core barrels within an 8-inch-diameter borehole. Core samples were collected and evaluated by the DBS&A on-site geologist.

- WDW-2-BH-1: Advanced to 160 feet bgs with approval from OCD. Dry at 160 feet bgs. The borehole was abandoned with bentonite. WDW-2-BH-1 was drilled from October 7 to 10, 2023.



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- WDW-3-BH-1: Advanced to 160 feet bgs with approval from NMOSE/BLM (not specified in field notes); borehole was dry. Left to sit overnight and did not make water. The borehole was abandoned with bentonite. There was 4 feet of slough in bottom of borehole. WDW-3-BH-1 was drilled from October 3 to 7, 2023.
- WDW-4-BH-1: Advanced to 160 feet bgs. Dry at 160 feet bgs. The borehole was abandoned with bentonite. WDW-4-BH-1 was drilled from October 11 to 12, 2023 and October 18 to 20, 2023.
- WDW-1-MW-1: Advanced to 500 feet bgs. A thin water-bearing zone was encountered at approximately 308 feet bgs. After sitting overnight, the well yielded a significant amount of groundwater. Drilling continued to a total depth of 500 feet bgs, and a monitor well was installed. The bottom of the borehole was cemented prior to well construction. WDW-1-MW-1 was drilled, installed, and developed from April 1 to 30, 2025.

3.3.3 Boring Depth and Drilling Conditions

Boreholes were advanced to 150 or 160 feet bgs as described in the OCD approved work plan. Upon reaching a depth of 150 feet, OCD requested an additional 10 feet of depth at WDW-2-BH-1 and WDW-3-BH-1. Drilling at WDW-2 and WDW-3 locations was similar, with nearly full sample recovery and smooth drilling. At WDW-4-BH-1, the lithology was harder, which led to a slower penetration rate. WDW-4-BH-1 reached total depth of 150 feet bgs. Each of the three borings was drilled without issue into dry formations.

No significant water-bearing zones were identified during the drilling; therefore, no monitor wells were installed. There was no visible indication of petroleum in cuttings and cores for any of the three borings.

The borehole at WDW-1 was advanced to 500 feet bgs as requested by the OCD prior to mobilization. Although the lithology was similar to that of the previous wells, increased hardness at greater depths resulted in a slower penetration rate. As a result, the drilling process extended over a period of 19 days.

A significant water-bearing zone was identified at approximately 308 feet bgs, with a static water level at 277 feet bgs. A monitor well was installed according to the work plan after cementing the borehole to a depth of 325 feet bgs. There was no visible indication of petroleum in cutting and core from this boring.



3.3.4 Geology and Lithology

Geology observed in the field at each site matches the geologic map (Figure 3), and consists of recent soil and alluvial sediments that cover bedrock formations of the Salado and Tansill Formations.

The lithology corresponds to the expected geology. The surficial material consists of silt, silty sand, and silty sands with some gravel. Depths of unconsolidated material range from 6 feet bgs at WDW-4-BH-1 to 30 feet bgs at WDW-3-BH-1. A fence diagram, or site-specific cross section across the three investigation boreholes, is provided as Figure 5.

Lithology of the Salado Formation was observed as interbedded clay and anhydrite, with minor amounts of siltstone that is consistent with descriptions by Kelley (1971).

Lithology of the Tansill Formation was interbedded clay and anhydrite with minor dolomite. Dolomite was observed as 2.5-foot layers at a depth of 150 feet bgs in WDW-3-BH-1 and at a depth of 145 feet bgs in WDW-4-BH-1. At WDW-1-MW-1, traces of dolomite were observed interbedded sporadically between 252 and 310 feet bgs, including a significant 4.25-foot layer at 300 feet bgs (Appendix E and Figure 5).

3.3.5 Observed Soil Moisture

Borehole lithology was primarily dry anhydrite with interbedded layers of clay (Appendix E). Clay layers were slightly moist to moist, with a few thin layers of clay observed to be very moist. The observed moisture in clay units was not classified as significant water-bearing zones. Movement of moisture into the boreholes occurred while drilling or when the boreholes were allowed to remain open while waiting on water.

Initially, only one location was identified as potentially saturated with groundwater—a 1-inch layer of silt (ML) in WDW-3-BH-1 at a depth of 80 feet bgs. This apparent saturation was determined to be an artifact from sonic drilling, and is not representative of a saturated lithologic unit. On October 6, 2023, OCD requested evaluation of this apparently saturated area. Per OCD request, two evaluations of potential significant water-bearing formations were conducted at WDW-3-BH-1. With a borehole depth of 150 feet bgs, the sonic outer casing was lifted to a depth of 147 feet bgs to evaluate any significant water from 147 to 150 feet bgs. Water was not detected after 1 hour. OCD requested additional drilling to a total depth of 160 feet bgs. The borehole remained open from 75 to 160 feet bgs overnight to verify that no lithologic units would produce significant water. To confirm whether water was present, the



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DBS&A on-site geologist attempted to measure the water level and attempted to collect water with a bailer sampling device. No water was detected in the borehole.

At WDW-1-MW-1 on April 9, 2025, a thin 6-inch layer of wet to saturated gravelly sand was encountered, and procedures outlined in the work plan were followed to evaluate the significance of this saturated zone. The sonic casing was pulled up to 300 feet bgs to leave the saturated interval from 308.0 to 308.5 feet bgs open to the borehole. After a 2-hour waiting period, a bailer was used to check for groundwater accumulation. No water was detected, so drilling continued. The borehole was advanced to 332.5 feet bgs and no additional wet cuttings were identified the remainder of the day.

On April 10, 2025, after drilling to 335 feet bgs, the driller reported that water had filled the bottom of the borehole. During the bail down test, a 3-inch diameter bailer with a 5-gallon capacity was used to bail water from the borehole. Cascade bailed about 100 gallons of water in about an hour. After bailing, the water level was measured at 312 feet bgs and recovery monitoring was conducted. The water level stabilized at 278 feet bgs within 3 hours after bailing stopped.

Specific capacity, which is the flow rate (Q) in gallons per minute (gpm) divided by the drawdown (s) in feet, was calculated. Assuming that the water level at the start of bailing was 278 feet bgs, the drawdown, s , was 34 feet at a rate, Q , of 100 gallons per hour or 1.6 gpm, the specific capacity, Q/s , was 0.05 gpm/feet of drawdown. Based on the amount of groundwater purged, recovery rate, and specific capacity, the zone from 308 to 308.5 feet bgs was determined to be capable of producing sufficient water for sampling and thus a monitor well was installed.

3.3.6 Borehole Plugging and Abandonment

As approved in the work plan and by OCD through e-mail, no monitor wells were installed at the initial boreholes due to dry conditions. All three boreholes (WDW-2-BH-1, WDW-3-BH-1, and WDW-4-BH-1) were abandoned and plugged with bentonite grout according to OSE guidelines. Well record forms have been submitted to OSE (Appendix H).

3.3.7 Well Completion

The WDW-1 borehole was completed as a 4-inch-diameter monitor well. Installation was completed in accordance with the procedures specified in the approved work plan. An as-built



diagram is provided in Figure 6. General specifications followed during well installation are as follows:

- Prior to the monitor well installation, the borehole was cemented from the total depth of 500 feet bgs to 325 feet bgs.
- The monitor well was constructed using 4-inch-diameter Schedule 80 PVC flush-threaded well materials, including 15 feet of 0.020-inch-slot, machine-cut well screen and a 5-foot PVC end cap. Blank flush-threaded well casing extends from the top of the screened interval to the surface. Centralizers were placed at the base and top of the screen, and at 60-foot intervals thereafter.
- Per approval from OCD, the well screen was positioned approximately centered on the water table rather than the static water level due to the artesian nature of the groundwater.
- A filter pack consisting of 12/20 silica sand was placed in the well annular space from the top of the cement section to approximately 5 feet above the top of the well screen.
- A minimum 5-foot-thick activated bentonite chip seal was installed on top of the filter pack. The remaining annular space was filled with a cement/bentonite grout, except for a 1-foot bentonite chip seal placed at 92 feet bgs.
- Surface completion included a locking, aboveground steel riser set within a concrete pad with a minimum thickness of 6 inches. Four protective bollards were installed around the pad.
- A QED bladder pump was installed to 307 feet bgs and suspended from the wellhead. The pump is a displacement-type operated using pressurized nitrogen and allows for low-flow sampling procedures. The wellhead configuration allows for measurement of water levels without removing the pump.

Following well construction, the specific capacity was calculated during development pumping. Pumping rates varied from 1 to 2 gpm. During development on April 30, 2025, the average pumping rate was 1.5 gpm for 15 minutes and drawdown was 24.9 feet. Specific capacity was calculated at 0.07 gpm/ft.

3.3.8 Waste Disposal

Drilling waste material was stored at HFSNR for characterization. Laboratory samples indicated that waste was non-hazardous. Material was disposed of as typical refinery waste and hauled by HFSNR's subcontracted waste hauler. Waste manifest records are provided in Appendix I.



3.3.9 Well Survey

Monitor wells were not installed during the initial investigation; therefore, no well survey was completed. WDW-MW-1 survey was completed in October 2025. Borehole location coordinates and elevations are provided in Table 2 and Appendix J.

3.4 Data Discussion

During the sonic drilling, data were collected in the field related to the lithology at each site. Regional groundwater was encountered during drilling activities at one location; water levels and groundwater quality samples were collected. Geologic observations can be used to infer possible hydrogeologic characteristics of the rocks.

3.4.1 Evaluation of Lithology and Geology

Borings at WDW-1, WDW-2, and WDW-3 were advanced into the Salado Formation and the boring at WDW-4 was advanced into the Tansill Formation of the Artesia Group (Figure 5). The Salado Formation was deposited after the Capitan Reef system, but in a similar depositional environment as the Tansill Formation. The formations were deposited on mud flats that were a shallow water depositional environment often inundated by fresh water or salt water. The lithology of the rocks reflects the cyclical nature of deposition and evaporation as demonstrated by the interbedded layers of clay, silt, anhydrite, and dolomite. All four borings encountered these interbedded lithologies.

In the Artesia area and north of the Capitan Reef, the Tansill Formation transitions from being dominated by dolomite to more evaporite beds with thin beds of dolomite (Kelley, 1971). These relationships were observed at WDW-4-BH-1 and at WDW-1-MW-1; anhydrite and clay were the dominant lithologies, with minor thin beds of dolomite. The Salado Formation has most likely experienced extensive dissolution of halite and other evaporite minerals and has variable thickness. According to Kelley (1971), a distinguishing characteristic of the Salado Formation is the color of the anhydrite, which is typically more of a red color compared to the gray color typical of the anhydrite in the Tansill Formation. Based on color changes in the borings at WDW-2-BH-1 and WDW-3-BH-1, the contact between the formations is about 60 feet bgs, or about 3,540 feet msl. At WDW-1-MW-1, the contact is at approximately 40 feet bgs, or about 3,560 feet msl.



3.4.2 Evaluation of Hydrogeology

The general hydrogeologic character of the rocks may be inferred based on the observed lithologies. The interbedded clay and anhydrite are likely to have quite low permeabilities. Movement of groundwater will be limited in the vertical direction due to the anisotropic nature of the units. Horizontal groundwater movement will be controlled by the low permeability of the lithologies. The siltstone and dolomite units are minor components of the observed conditions in the borings, and will have limited permeability unless they have been fractured. Fracture permeability typically is developed when dissolution of evaporites has caused the subsidence or collapse within the formations. The distribution pattern of this dissolution is not well established but is most likely heterogeneous, resulting in variable permeability within the geologic units. Groundwater movement in the fractured units will be limited in the vertical direction due to changes in lithology, and horizontal movement may be maintained until fracturing diminishes or the lithologic unit is truncated by a facies change.

At WDW-1-MW-1, a saturated, gravelly sand layer was encountered at 308 feet bgs. The gravelly sand unit was approximately 0.5 foot thick and, following well completion, the water level rose to 273.94 feet bgs. The monitor well is considered an artesian well and the aquifer is under artesian conditions because the water level in the well rose above the top of the saturated unit. The corresponding pressure head for the observed water level rise of 34 feet is 14.7 pounds per square inch (psi).

At WDW-1-MW-1, the artesian conditions are created by the subsurface stratigraphy and groundwater flow within the anisotropic aquifer system. The gravelly sand unit appears to be confined by lower-permeability units of interbedded siltstone, clay, and dolomite above and below the unit.

While drilling the nearby injection well, this gravelly sand unit would have been encountered and sealed off from the WDW-1 well using cement in the annular space. The observed hydraulic pressure in WDW-1-MW-1 probably indicates that the WDW-1 annular seal is competent and not allowing fluids to move into or out of the artesian aquifer unit.

3.4.3 Groundwater Quality at WDW-1-MW-1

Water samples were collected at WDW-1-MW-1 in June and August 2025. Laboratory reports are provided in Appendix K and results are summarized in Tables 3 and 4. Table 3 presents results for detected constituents, while Table 4 lists all of the constituents with non-detects. For comparison, the numeric criteria and work plan reporting limits are provided.



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At WDW-1-MW-1, the groundwater is brackish with a TDS concentration of 4,600 mg/L. Constituents like calcium, sodium, chloride, and sulfate contribute to the TDS concentration. Considering that this groundwater is in the Tansill Formation, which is predominantly composed of interbedded clay and anhydrite units, the elevated calcium and sulfate concentrations are to be expected and are derived from dissolution of anhydrite.

During both sampling events, some organic compounds were detected at low concentrations, and many of these low detections have "J" qualifiers, which means that the detected analyte was found at a concentration between the reporting limit (RL) and the method detection limit (MDL), very close to the capability of the instrument or method. There were some "B" qualifiers because some compounds like phthalate isomers were detected in the method blank and sample.

Based on our initial review of the laboratory quality assurance (QA) information, the groundwater matrix was causing analytical issues for method 8270E, including recovery of spiked (QA) samples outside of control limits. For the August 2025 sampling event, additional sample was submitted for the laboratory control sample (LCS), but that did not solve the matrix interference issue. Because the majority of organic compounds were not detected, the control limit issue does not appear to be a problem for accepting the data.

Two organic detections occurred in both the June 2025 and August 2025 samples. The August 2025 sample results were lower than the results for June 2025:

- Toluene concentration decreased from 48 micrograms per liter ($\mu\text{g/L}$) in June 2025 to 11 $\mu\text{g/L}$ in August 2025.
- Perchlorate concentration decreased from 0.69 $\mu\text{g/L}$ in June 2025 to 0.54 $\mu\text{g/L}$ in August 2025.

These constituents are not analyzed for in the effluent sent to WDW-1.

In WDW-1-MW-1, no organic constituents were detected at concentrations greater than the numeric criteria (Tables 3 and 4). Inorganic constituents detected at concentrations exceeding the numeric criteria include boron, chloride, sulfate, and TDS.

Groundwater data from WDW-1-MW-1 were compared with recent effluent chemistry from 2019 to 2025 (Appendix L). Summary statistics for the effluent and the RAB are presented in Table 5. RAB data and statistics are from Land (2016). Data for WDW-1-MW-1 are shown for comparison.



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Mean TDS concentrations of 4,652 mg/L for effluent and 4,993 mg/L for RAB are comparable to and slightly greater than the measured TDS concentrations at WDW-1-MW-1 of 4,500 and 4,600 mg/L. The mean chloride concentration in the effluent data is 539 mg/L, which is significantly lower than the observed concentration at WDW-1-MW-1 of 1,100 mg/L. The mean sulfate concentration in the effluent is 2,193 mg/L, which is greater than the observed value of 1,900 mg/L for WDW-1-MW-1. These constituents are compared graphically using box plots in Figures 7, 8, and 9.

Water chemistry is often characterized by type based on the major ion composition. The groundwater samples and duplicate from WDW-1-MW-1 are calcium-chloride (Ca-Cl) type, and the effluent samples are sodium-sulfate (Na-SO₄) type. These water types have different proportions of major ions indicating their chemical differences.

3.4.4 Potential Impacts from WDW-1 Operations

To evaluate the potential for effluent impacts to the groundwater at WDW-1-MW-1, a binary mixing model was developed (Figure 10) using mean concentrations for sulfate and chloride in the effluent and RAB (Table 5). Chloride and sulfate are expected to be conservative anions in the groundwater and remain in solution during mixing because precipitation reactions are not expected from minerals like halite or anhydrite. The mixing line was created at different proportions of the end members, resulting in the straight line on Figure 10. If the groundwater represents a mixture of these two end members, the WDW-1-MW-1 concentrations should plot along the mixing line. WDW-1-MW-1 data do not plot along the mixing line. Based on the mean sulfate and chloride concentrations in the effluent and RAB, mixing cannot be the mechanism for the observed water quality at WDW-1-MW-1. The observed chemistry in the monitor well would require different proportions of the end members. For example, the observed sulfate concentration would require mixing about 65 percent effluent and 35 percent RAB. In contrast, the chloride would require mixing about 15 percent RAB and 85 percent effluent. This mixing example demonstrates that the observed groundwater chemistry is not a simple mixture of effluent and groundwater.

3.4.5 Limitations of Data

Available groundwater data are limited, with few existing wells in this area, which is likely a result of the poor quantity and quality of usable groundwater in the area. The geologic literature is presented in a regional context, with no studies related to the hydrogeology of the Tansill and



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Salado Formations in the UIC wells study area. Hydrogeology data deeper than about 500 feet bgs are limited to regional studies and records related to the WDW wells.

Groundwater aquifers are limited in the study area, and regional or perched aquifers were not encountered in any of the initial borings drilled for this study. However, groundwater was observed in the borehole drilled during the second hydrogeological investigation; therefore, WDW-1-MW-1 provides a single site for data collection.

Groundwater chemistry data specific to the UIC wells study area is limited. Water quality analyses for local aquifer systems are based on datasets from the literature that represent wells throughout the area—probably completed in various geologic units and aquifer systems and collected at various time—and have little supporting geologic data. Due to the limitations of the available datasets, average or mean concentration values were used for the comparison analysis discussed in this report.

4. Conclusions

4.1 Geologic Conditions in the Tansill and Salado Formations

Based on the geologic maps, regional geologic studies, and the data collected during these hydrogeologic investigations, the borings were drilled in the Salado and Tansill Formations of the Artesia Group. These units consist of interbedded clay and anhydrite and, to a lesser extent, siltstone and dolomite; these dominant lithologies were observed in all four borings.

The Tansill and Salado Formations are not typically expected to host regional aquifer systems, but the Tansill Formation does have a thin unit that is part of the regional artesian aquifer system encountered at WDW-1-MW-1.

4.2 Local Perched Aquifer Conditions

Borehole lithology at WDW-2-BH-1, WDW-3-BH-1, and WDW-4-BH-1 shows interbedded clay and anhydrite with dry conditions. All three borings appear to be Salado and Tansill Formations. Lithology at WDW-1-MW-1, consisting of interbedded clay and anhydrite, was consistent with that observed in the initial boreholes. However, unlike earlier borings, saturated conditions were present within the Tansill Formation at this location and were encountered at greater depths than penetrated by the borings advanced during the first phase of the investigation.



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Based on observations during the first phase, the UIC wells have not leaked between ground surface and 150 or 160 feet bgs. During the second phase, regional groundwater under artesian conditions was encountered, but no perched zones were encountered. Based on aquifer hydraulics and water chemistry, no impacts from the UIC wells were observed during the second phase.

4.3 Occurrence of Groundwater with Total Dissolved Solids less than 10,000 mg/L near the UIC wells

Based on discussions with OSE, the water encountered at WDW-1-MW-1 is part of the regional artesian system, but appears to be outside of the administrative boundaries for the RAB. The salinity of the RAB Aquifer typically increases east of the Pecos River, but water quality data are sparse. Historical data for the artesian aquifer east of Roswell indicate chloride concentrations ranging from 7,000 mg/L (Welder, 1983) to 115,000 mg/L (Land, 2016). Chloride concentrations of this magnitude or greater could be due to dissolution of evaporite minerals like halite found in geologic units like the Salado Formation. If chloride concentrations have historically been as high as 7,000 mg/L, the corresponding TDS concentrations would be expected to be greater than 10,000 mg/L to account for the corresponding cation concentrations necessary to charge balance this elevated chloride concentration. The dissolution of minerals in the Salado and Tansill Formations near the UIC wells is the likely source of dissolved constituents observed in groundwater.

The Rustler Formation and the Culebra Dolomite occur east of the UIC wells study area, and are not expected to be impacted by any releases. Due to the relatively low-permeability geologic units like the Salado Formation and within the Rustler Formation, there is expected to be limited hydraulic connection from the UIC wells to the Rustler Formation.

The Pecos Valley Alluvium Aquifer is about 4 miles west of the closest UIC well, WDW-4. Due to the distance and vertical anisotropy of the local geologic units, there is expected to be limited hydraulic connection from the UIC wells to the Pecos Valley Alluvium Aquifer.

4.4 Potential Groundwater Impacts

Based on the data and analyses for WDW-1-MW-1, injection well WDW-1 has not impacted groundwater encountered in the Tansill Formation.



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The UIC wells are not likely to impact groundwater resources. Local hydrogeologic conditions will limit connectivity, and the potential for release will be limited by UIC well operation, maintenance, and required testing.

The regional artesian system was found in the Tansill Formation. No perched aquifers were observed during either drilling phase.

The design and operation of the UIC wells are intended to limit the potential for release of injectate into the surrounding environment. The wells have multiple casings with annular cement seals, tubing installed with a packer system to isolate the injection zones, and a vertical separation between the injection zone and shallow groundwater resources. With the limited groundwater resources in the UIC wells study area, potential releases are not likely to impact groundwater.

Routine testing including mechanical integrity testing (MIT) provides data on the competence of the annular cement seals, casings, and packer to demonstrate that the system delivers water to the deep injection zone.

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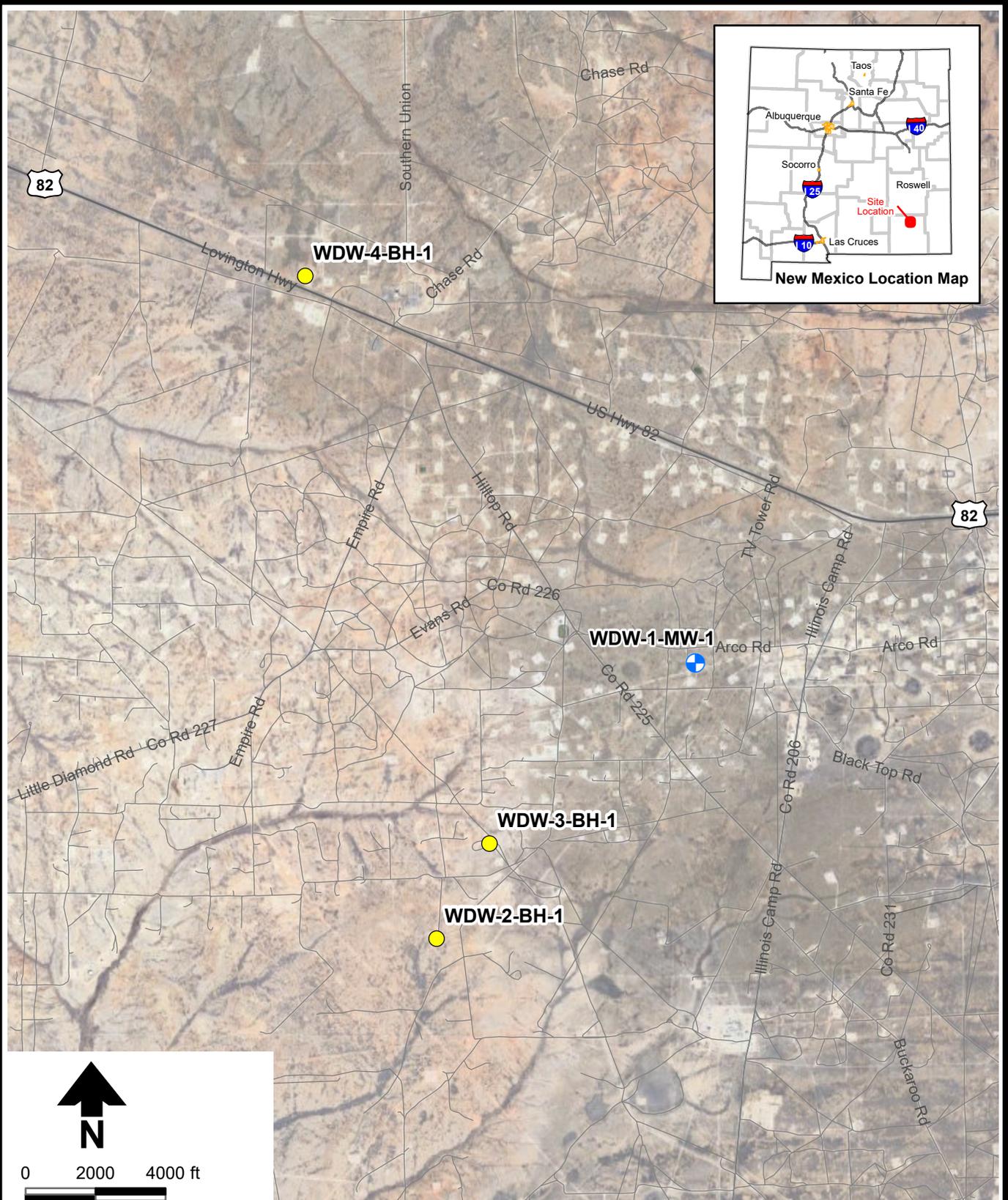
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Figures

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Base image source: Google Earth Pro, 12/21/2019

Explanation

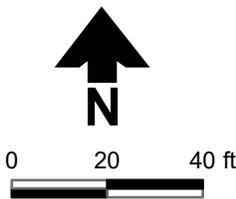
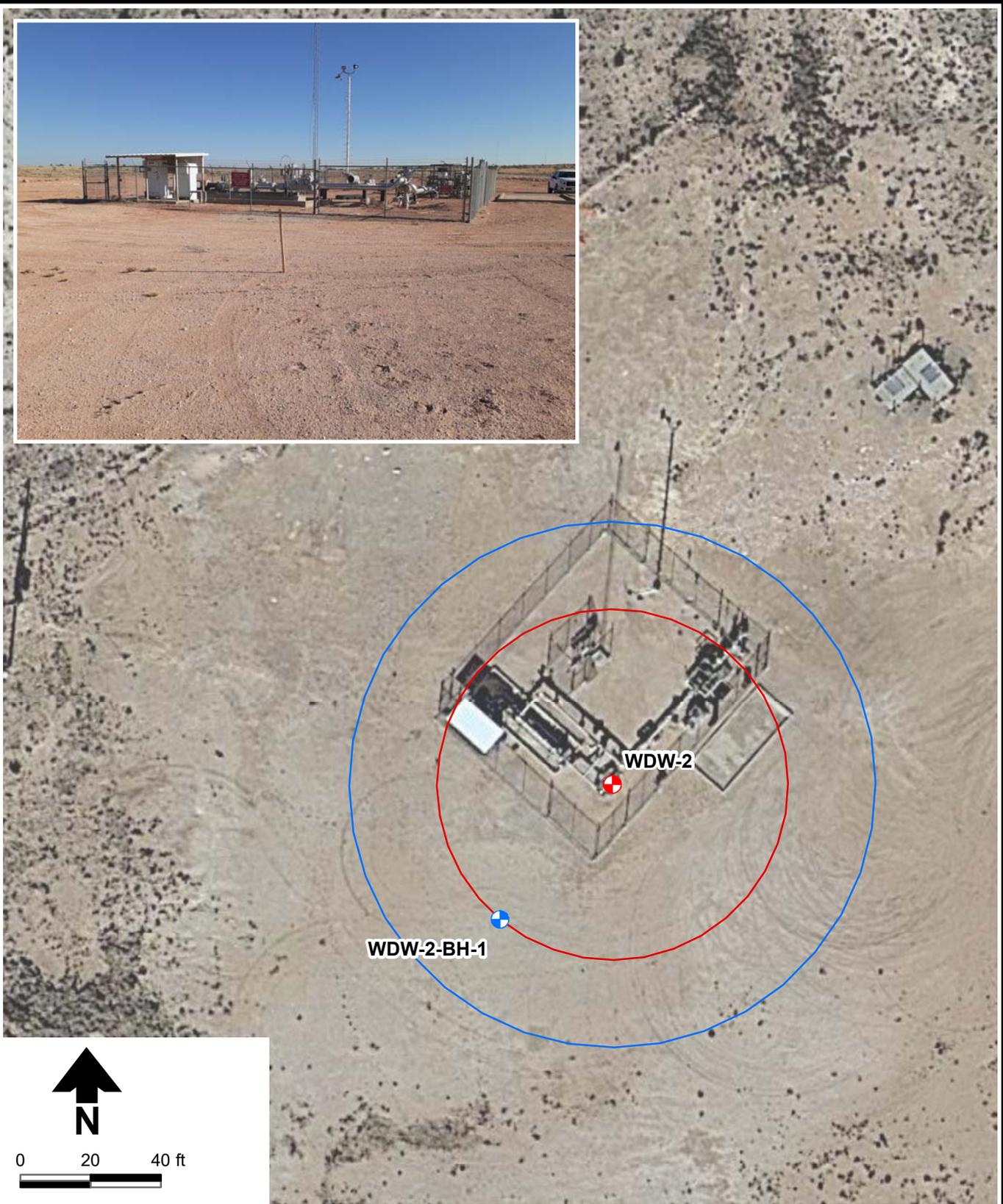
-  Monitor well
-  Borehole



10/16/2025 DB22.1334

**HF SINCLAIR NAVAJO REFINERY
Area Map**

Figure 1



Explanation

-  Monitor well investigation borehole
-  Underground Injection Control Well (UIC)
-  50 foot radius from UIC well
-  75 foot radius from UIC well

Base image source: Google Earth Pro, 12/21/2019

HF SINCLAIR NAVAJO REFINERY

WDW-2

Monitor Well Investigation Borehole

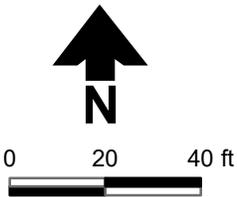


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Figure 2a

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Explanation

-  Monitor well investigation borehole
-  Underground Injection Control Well (UIC)
-  50 foot radius from UIC well
-  75 foot radius from UIC well

Base image source: Google Earth Pro, 12/21/2019

HF SINCLAIR NAVAJO REFINERY

WDW-3

Monitor Well Investigation Borehole



1/24/2024

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Figure 2b

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Base image source: Google Earth Pro, 12/21/2019

Explanation

- ⊕ Monitor well investigation borehole
- ⊕ Underground Injection Control Well (UIC)
- 50 foot radius from UIC well
- 75 foot radius from UIC well

HF SINCLAIR NAVAJO REFINERY

WDW-4

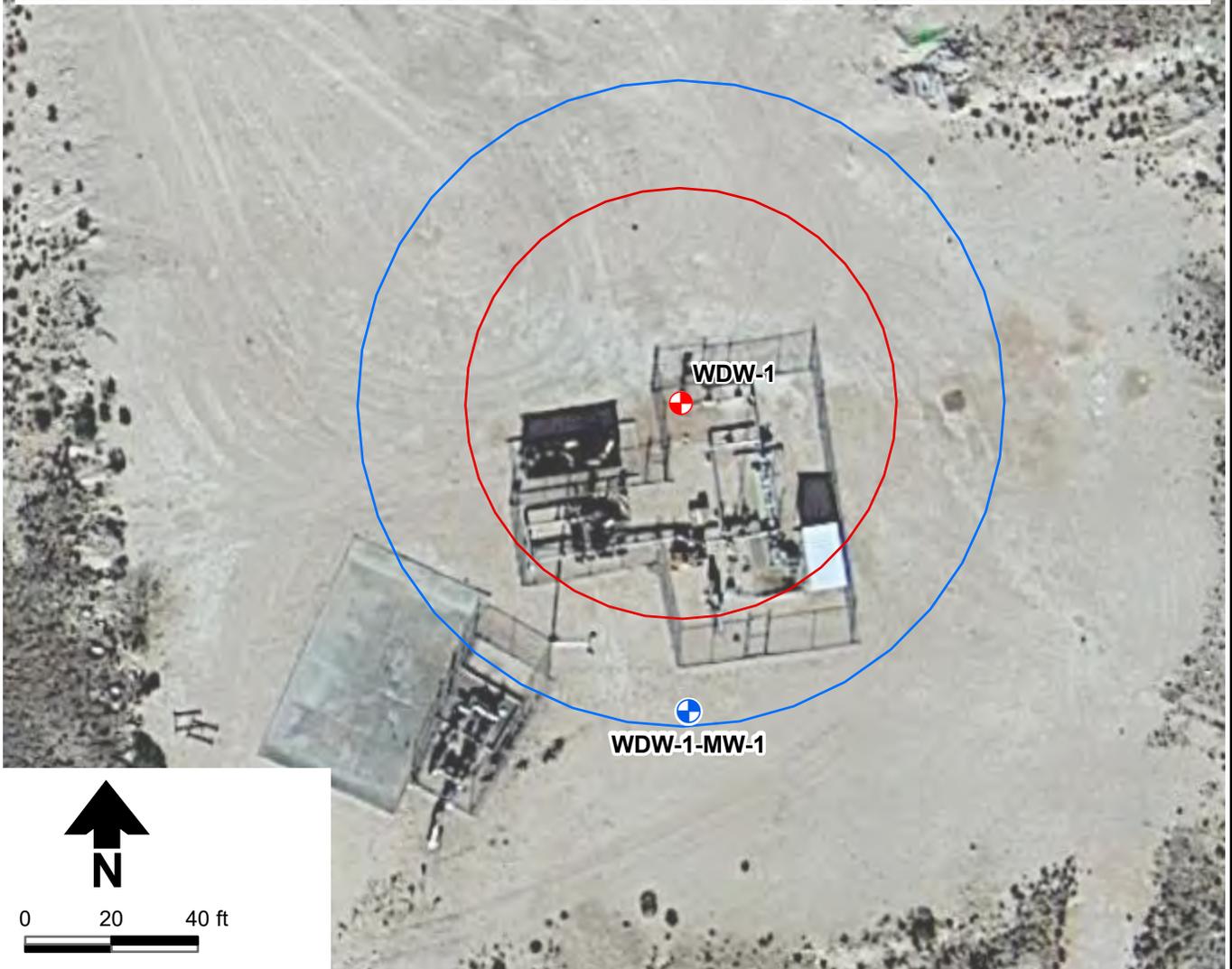
Monitor Well Investigation Borehole



1/24/2024 DB22.1334

Figure 2c

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Base image source: Google Earth Pro, 12/21/2019

Explanation

-  Monitor well
-  Underground Injection Control Well (UIC)
-  50 foot radius from UIC well
-  75 foot radius from UIC well

HF SINCLAIR NAVAJO REFINERY
WDW-1
Monitor Well Location



10/16/2025 DB22.1334

Figure 2d

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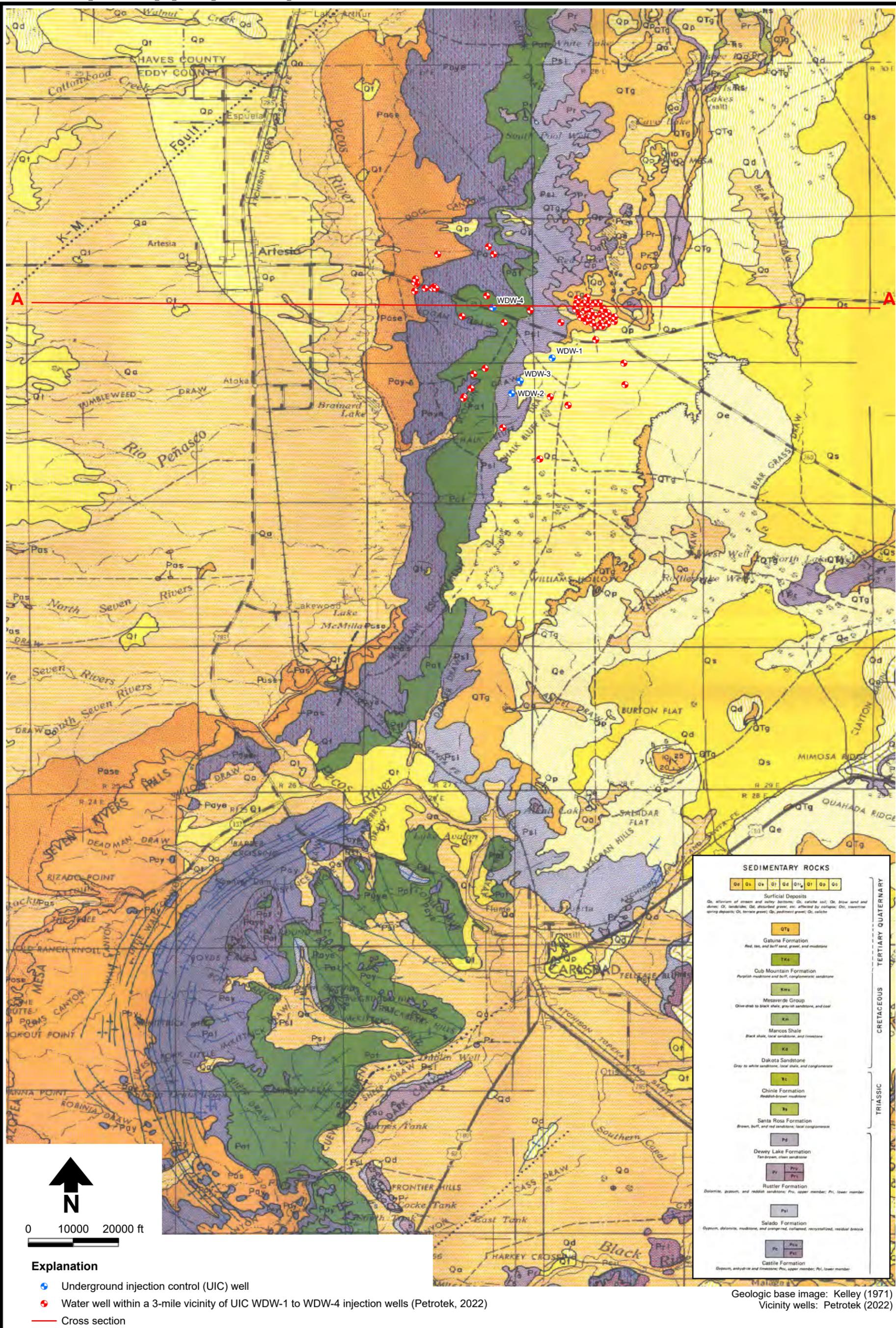
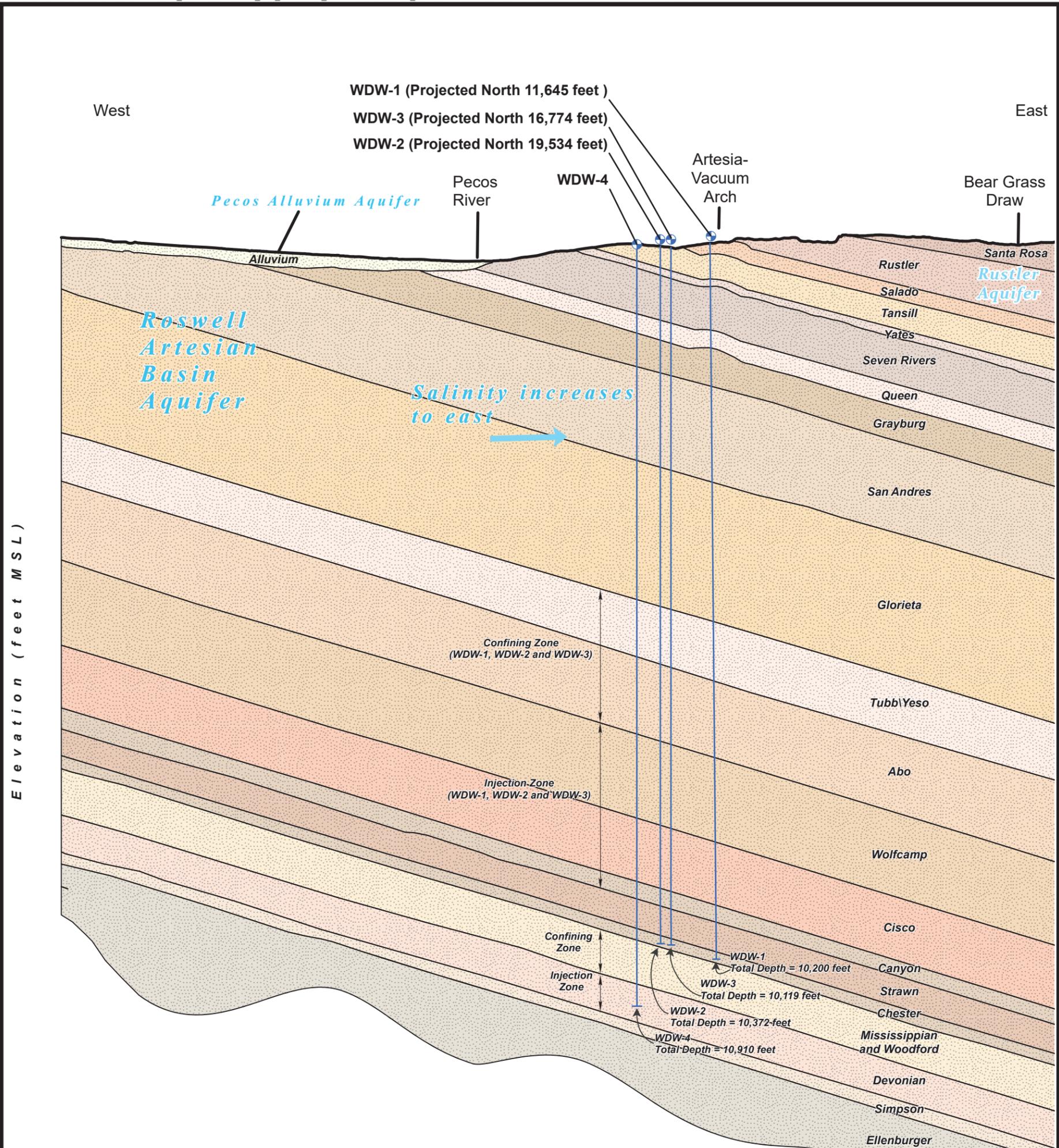


Figure 3



HF SINCLAIR NAVAJO REFINERY Geologic Map



Vertical exaggeration = 10X
 0 1.5 3 Miles

- Explanation**
- Well
 - Cross section
 - Well depth

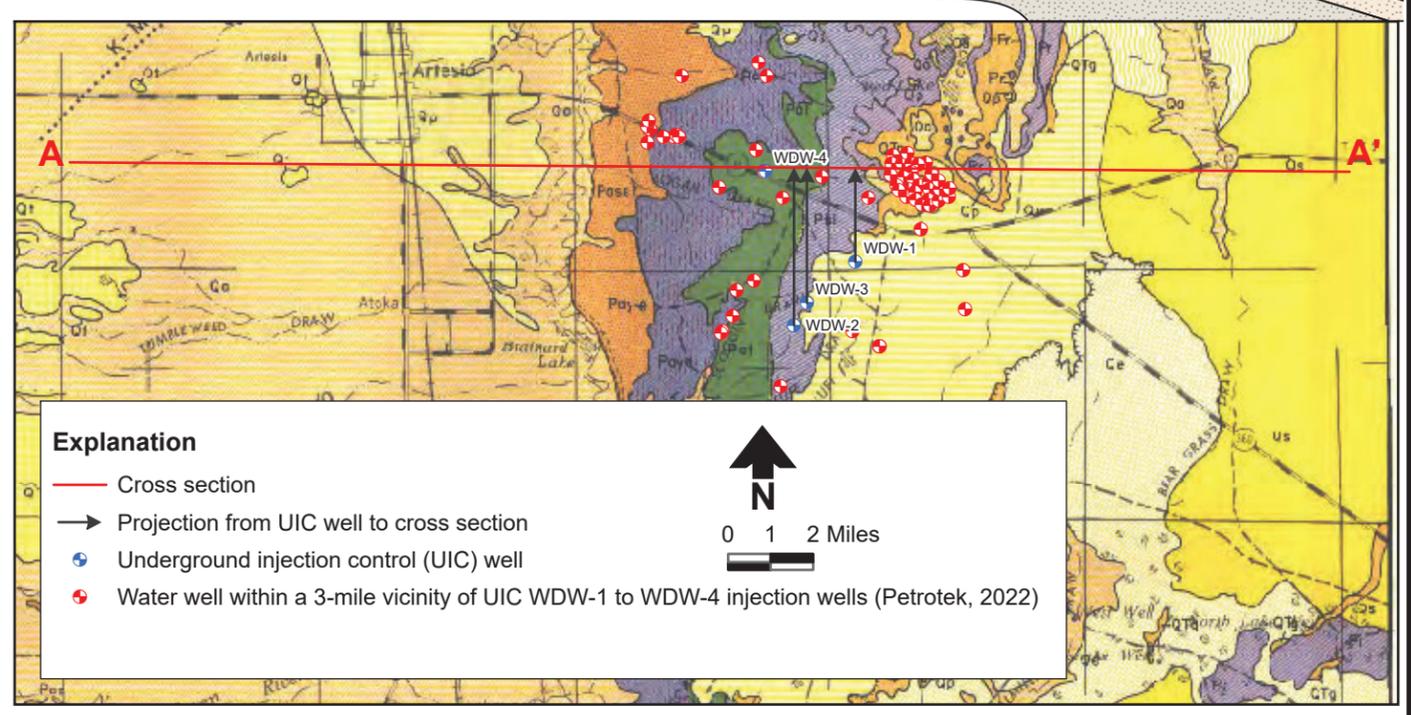
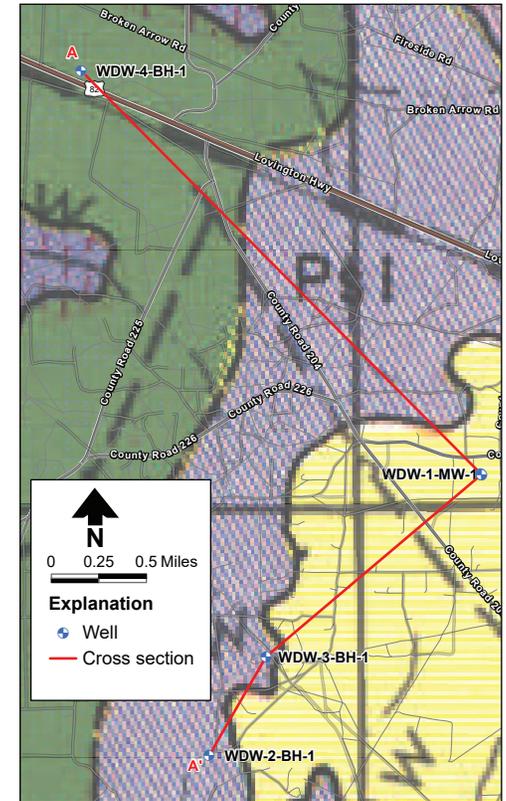
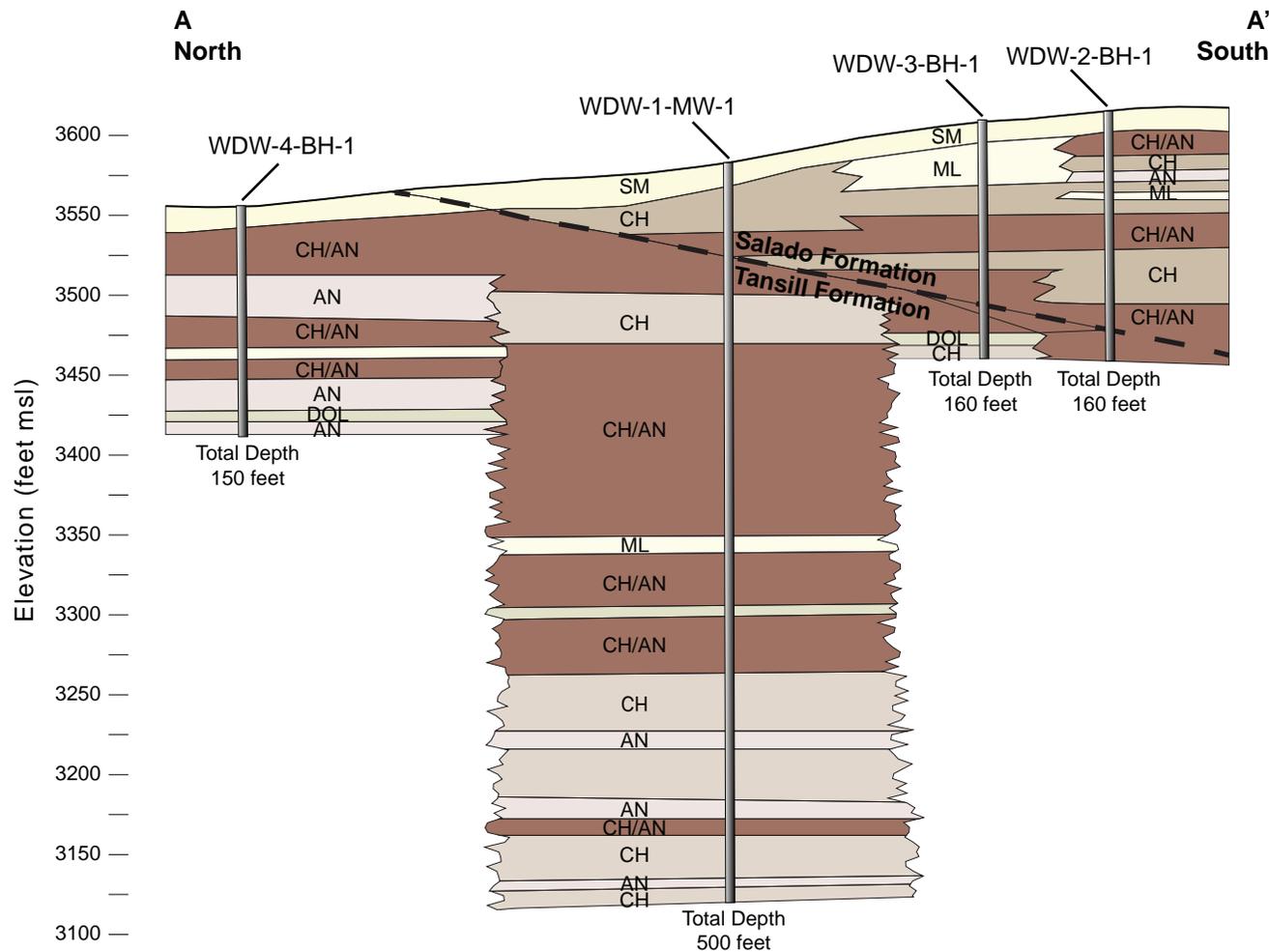


Figure 4

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Scale
1 inch = 2,500 feet
Vertical exaggeration = 100x

Explanation

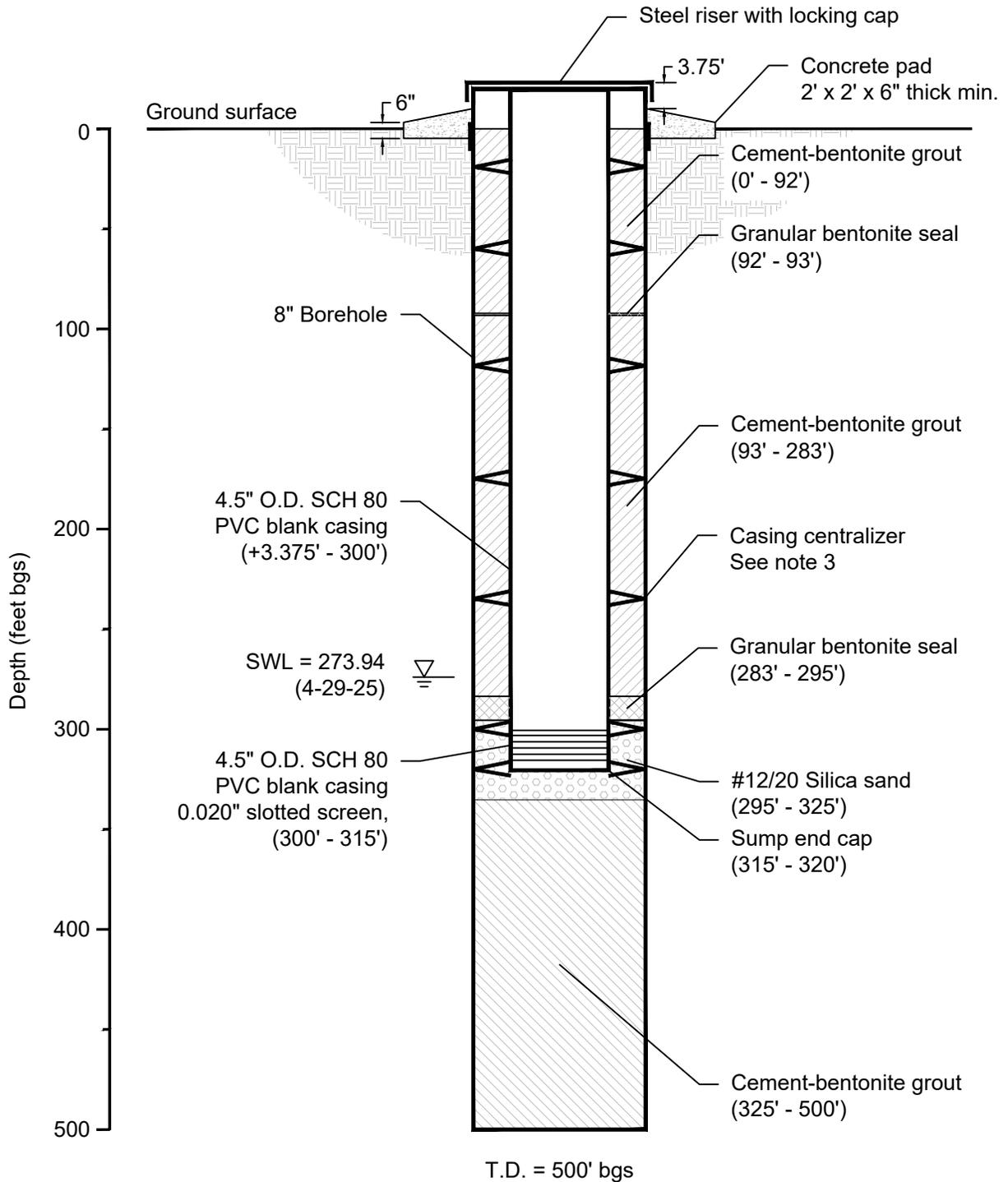
- | | |
|--|--|
|  SM Silty sand |  AN Anhydrite, minor clay |
|  CH/AN Interbedded clay and anhydrite, minor silt |  DOL Dolomite |
|  CH Clay |  ML Silt |
|  Salado/Tansill Formation geologic contact | |

HF SINCLAIR NAVAJO REFINERY
Fence Diagram from WDW-4-BH-1 to WDW-2-BH-1

Figure 5



9/30/2025 a Geo-Logic Company DB22.1334



Notes:

- | | |
|---|-----------------------------|
| 1. Drawing is not to scale | 6. O.D. = Outside diameter |
| 2. Dimensions are outside diameter | 7. T.D. = Total depth |
| 3. Casing centralizers to be located at 20', 60', 120', 180', 240', 300', and 320'. | 8. PVC = Polyvinyl chloride |
| 4. bgs = Below ground surface | 9. SCH = Schedule |
| 5. SWL = Static water level | |

HF SINCLAIR NAVAJO REFINERY
WDW-1-MW-1 Well Completion Diagram

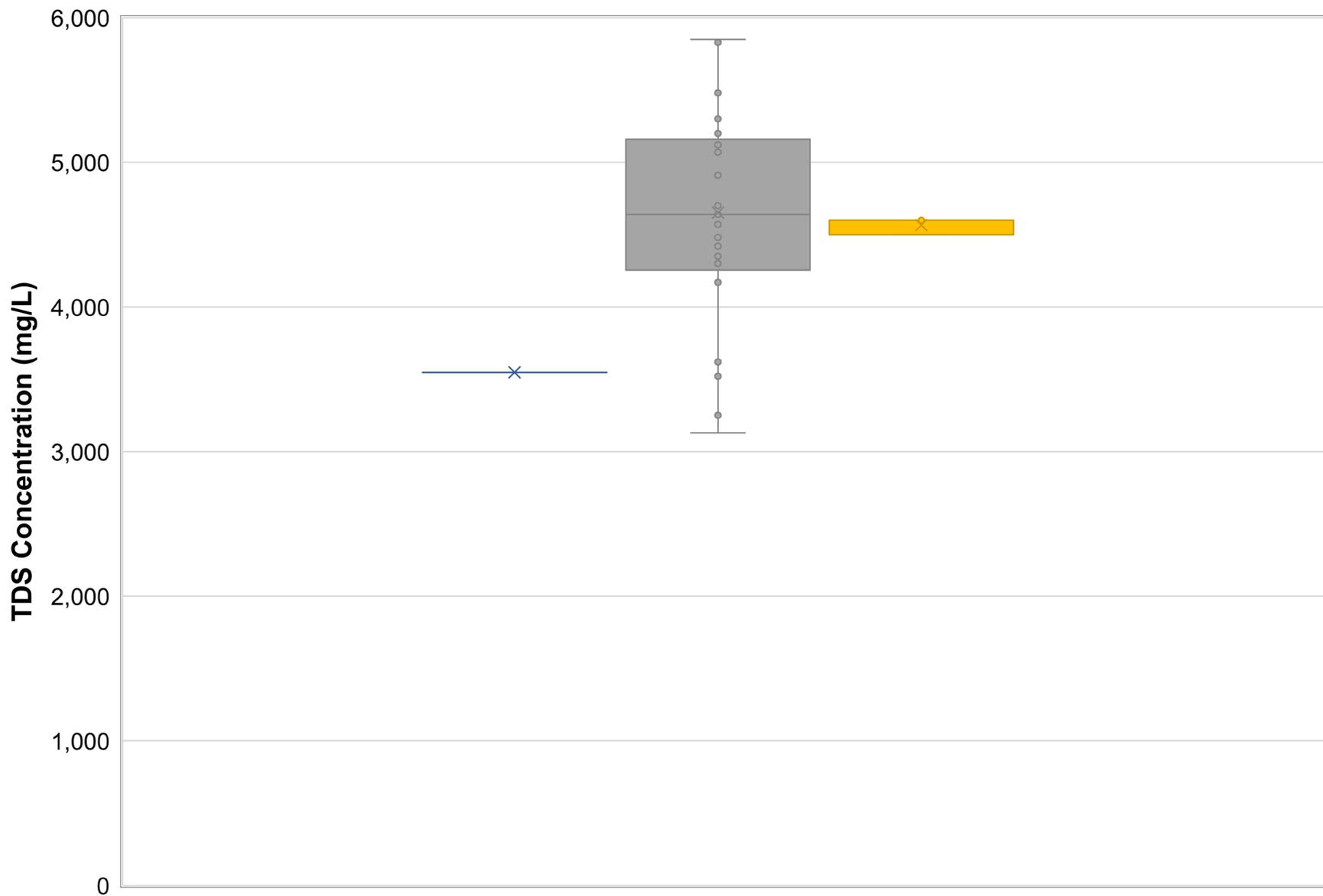


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Figure 6

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■ RAB ■ Effluent ■ MW-1

Figure 7

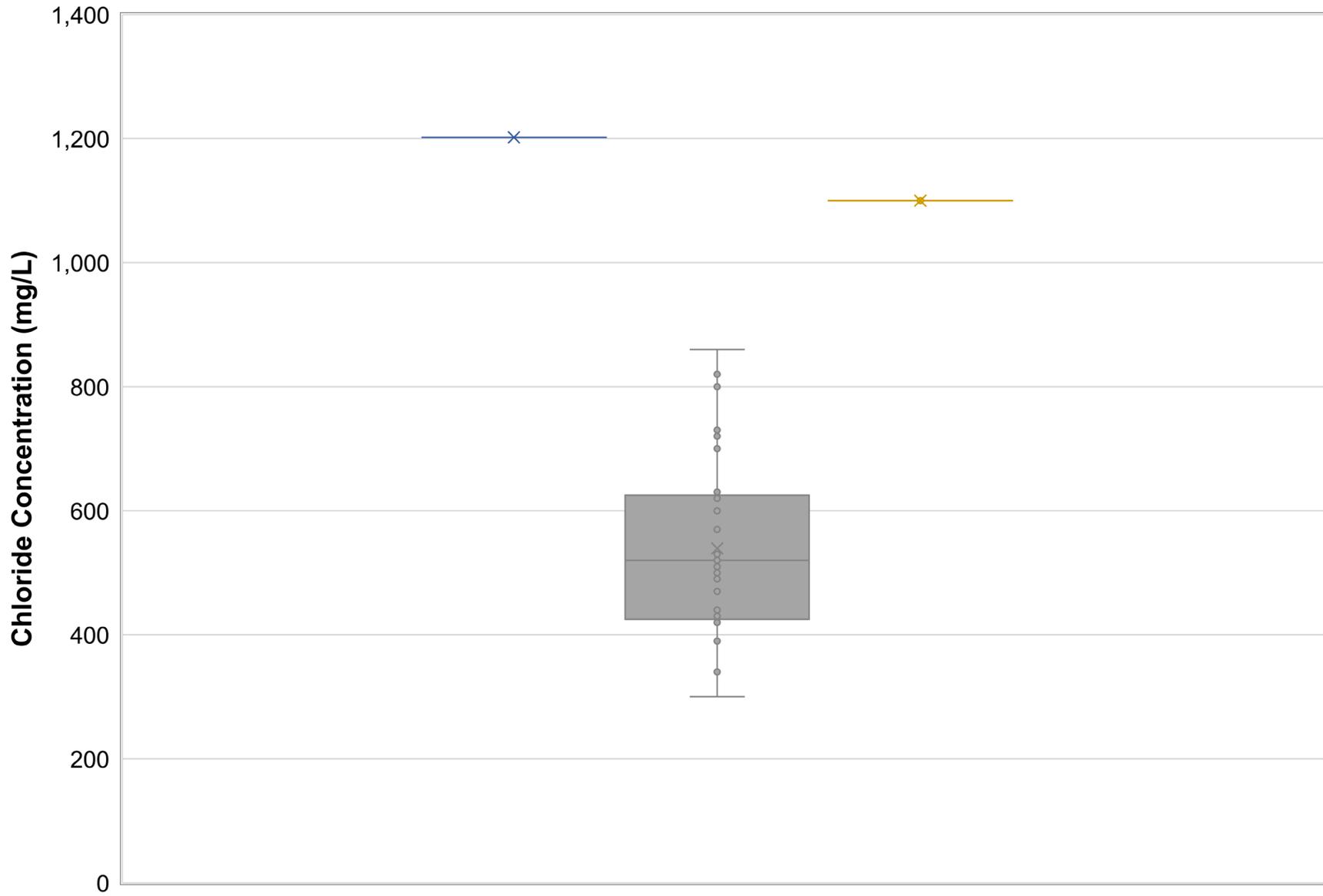


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HF SINCLAIR NAVAJO REFINERY
TDS Water Quality Statistics

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■ RAB ■ Effluent ■ MW-1

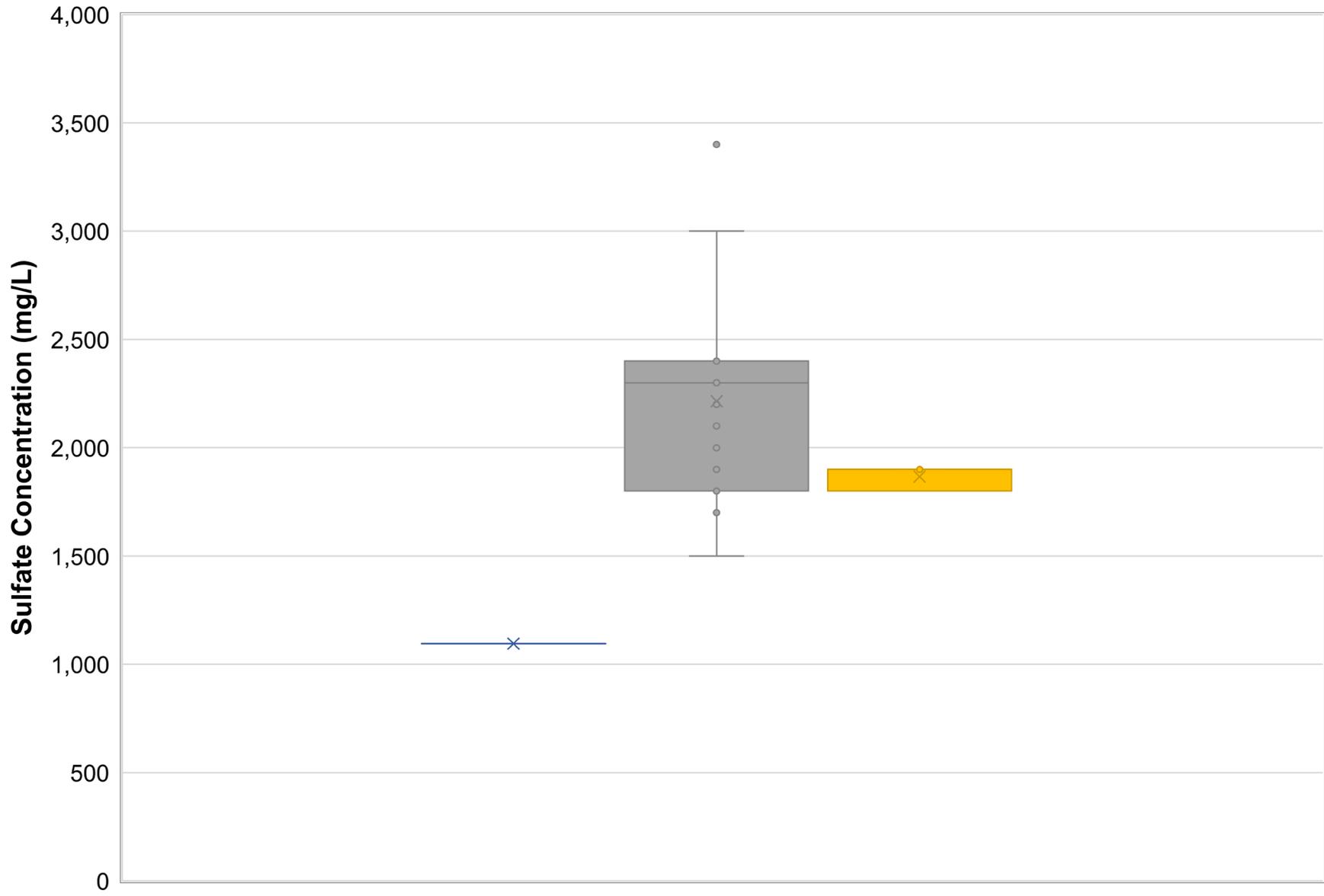
Figure 8



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HF SINCLAIR NAVAJO REFINERY
Chloride Water Quality Statistics

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■ RAB ■ Effluent ■ MW-1

Figure 9



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HF SINCLAIR NAVAJO REFINERY
Sulfate Water Quality Statistics

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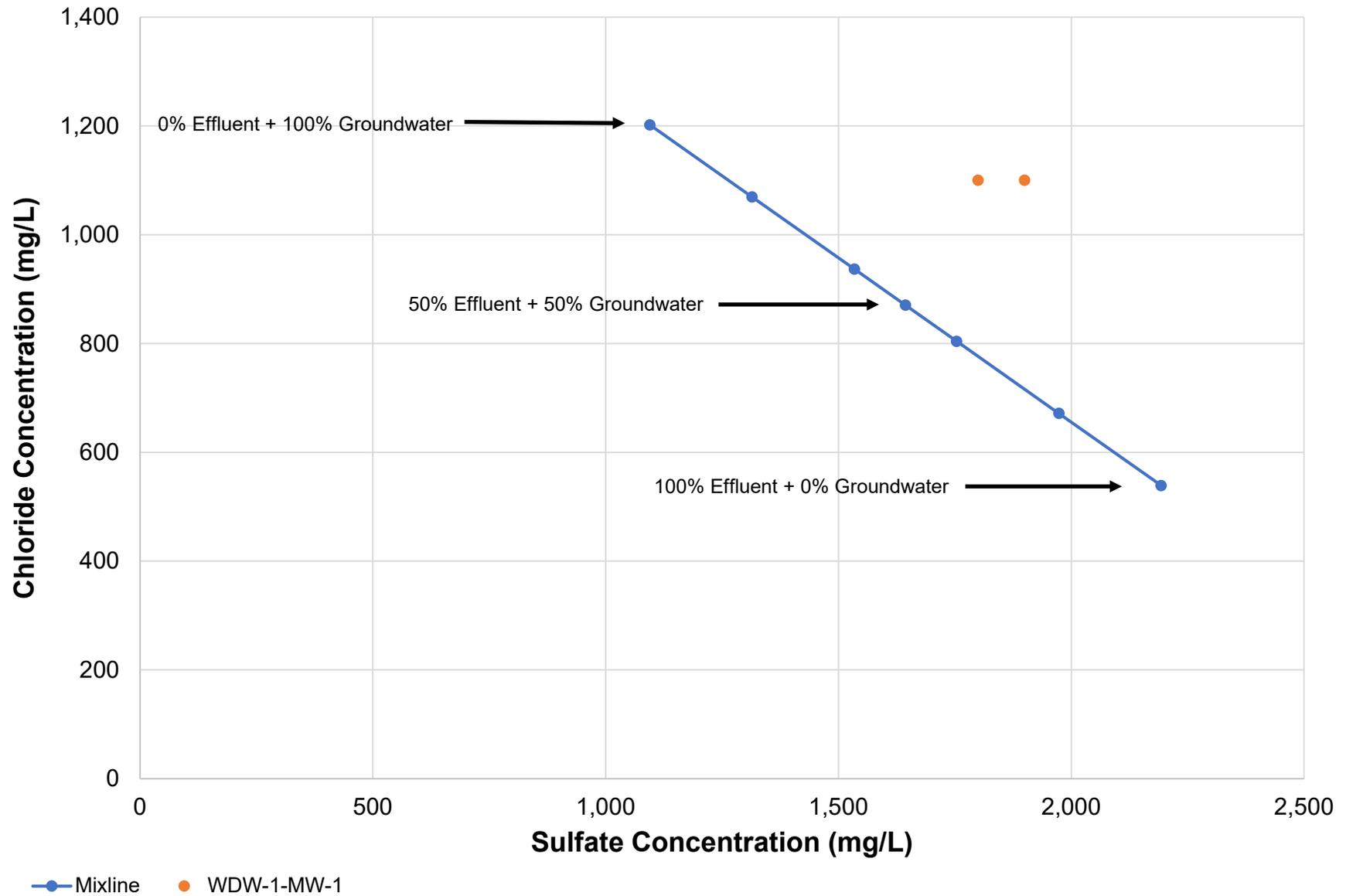


Figure 10



HF SINCLAIR NAVAJO REFINERY
Mixing Analysis, Sulfate and Chloride Concentrations
WDW-1-MW-1 and Effluent

Tables



Hydrogeologic Investigation Report UIC Wells, HF Sinclair Navajo Refinery

Table 1. Stratigraphy Near Artesia, New Mexico

Geologic Age	Geologic Formation	Comments
Quaternary	Alluvium of the Pecos River Valley	
Triassic	Santa Rosa Sandstone	
Permian	Rustler Formation	Units include the Magenta Dolomite and Culebra Dolomite
	Salado Formation	
	Artesia Group - Tansill Formation	
	Artesia Group - Yates Formation	
	Artesia Group - Seven Rivers Formation	
	Artesia Group - Queen Formation	Typically grouped with Grayburg Formation
	Artesia Group - Grayburg Formation	
	San Andres Limestone	
	Glorieta Sandstone	
	Tubb Formation	Typically grouped with Yeso Formation
	Yeso Formation	Confining zone for UIC wells WDW-1, WDW-2, and WDW-3
	Abo Formation	
Pennsylvanian	Wolfcamp	Injection zone for UIC wells WDW-1, WDW-2, and WDW-3
	Cisco Group	
	Canyon Group	
	Strawn Group	
Mississippian	Chester	
	Mississippian Series	Confining zone for UIC well WDW-4
Woodford Shale		
Devonian	Devonian Series	Injection zone for UIC well WDW-4
	Montoya Dolomite	
	Simpson Group	
Ordovician	Ellenburger	

Sources: Comer, 1991; Kelley, 1971



Hydrogeologic Investigation Report UIC Wells, HF Sinclair Navajo Refinery

Table 2. UIC Well and Borehole Coordinates

Name	Latitude	Longitude	Ground Surface Elevation (feet msl)	Depth (feet bgs)
WDW-1	32.78522	-104.21398	3,685	10,200
WDW-2	32.76366	-104.23848	3,613	10,372
WDW-3	32.77121	-104.23328	3,609	10,119
WDW-4	32.81581	-104.25003	4,525	10,910
WDW-1_MW-1	32.785007	-104.213931	3,604.1 ^a	500 ^b
WDW-2-BH-1	32.76360	-104.23860	3,613	160
WDW-3-BH-1	32.77114	-104.23344	3,609	160
WDW-4-BH-1	32.81586	-104.25011	4,525	150

Data are from surveys conducted for the installed monitor well at WDW-1 and for the WDW UIC wells. Borehole locations were collected based on field measurements not part of the formal site survey.

Datum is North American Datum (NAD)1983 and the geographic coordinate system is North American 1983.

^a Top of casing elevation for WDW-1-MW-1 is 3607.3 feet above mean sea level (Appendix J).

^b WDW-1-MW-1 borehole depth is 500 feet bgs; the total well depth is set at 320 feet bgs.

msl = Above mean sea level

bgs = Below ground surface



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Table 3. WDW-1-MW-1 Analytical Results for Detected Constituents, June and August 2025
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Parameter	Units	NMAC Standard	Laboratory Reporting Limit	WDW-1-MW-1			Refinery Effluent	
				June 2025	August 2025	August 2025 (Duplicate)	April 2025	September 2025
2-Methylphenol	mg/L	NS	0.001	0.00033 J	0.000068 J	<0.000063	<0.019	0.015
2-Nitrophenol	mg/L	NS	0.001	0.00012 J	<0.000079	<0.000079	—	—
3&4 Methylphenol	mg/L	NS	0.001	0.00075 J	0.00044 J	0.00040 J	<0.020	<0.010
Barium	mg/L	2	0.003	0.087	0.058	0.062	0.058	0.085
Benzene	mg/L	0.005	0.001	0.00031 J	0.00019 J	0.00018 J	<0.00023	<0.2
Benzyl alcohol	mg/L	NS	0.001	0.00059 J	0.00018 J	0.00017 J	—	—
Boron	mg/L	0.75	0.4 ^a	1.6	1.7	1.7	—	—
Bromide	mg/L	NS	1.0 ^a	17	1.6	1.5	0.63	0.75 J
Calcium	mg/L	NS	10 ^a	820	730	720	440	570
Carbonate	mg/L	NS	2.0	27	16	17	<2.0	<5.0
Chloride	mg/L	250	50 ^a	1,100	1,100	1,100	530	650
Magnesium	mg/L	NS	10 ^a	51	110	100	170	190
Molybdenum	mg/L	1	0.008	0.080	0.053	0.049	—	—
Perchlorate	mg/L	NS	0.0002 ^a	0.00069	0.00054	0.00016 J	—	—
Perfluorohexanoic acid	mg/L	NS	0.0000018	0.0000017 J	0.00000088 J	0.00000052 J	—	—
Perfluorooctanoic acid	mg/L	NS	0.0000018	0.00000046 J	<0.00000047	<0.00000046	—	—
Perfluorooctanesulfonic acid	mg/L	NS	0.0000018	0.00000050 J	<0.00000047	<0.00000046	—	—
pH	s.u.	6–9	0.1	9.5 HF	9.2 HF	9.2 HF	7.6 HF	7.6 HF
Phenol	mg/L	0.005	0.001	0.0022	<0.00028	<0.00028	—	—
Phenols, total	mg/L	0.005	0.005	0.012	<0.0020	<0.0020	—	—

Notes are provided at the end of the table.



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Table 3. WDW-1-MW-1 Analytical Results for Detected Constituents, June and August 2025
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Parameter	Units	NMAC Standard	Laboratory Reporting Limit	WDW-1-MW-1			Refinery Effluent	
				June 2025	August 2025	August 2025 (Duplicate)	April 2025	September 2025
Potassium	mg/L	NS	1.0	28	31	29	47	71
Selenium	mg/L	0.05	0.005 ^a	0.0060	0.0023	0.0023	0.074	0.12
Silver	mg/L	0.05	0.005	0.011	0.0097	0.010	<0.025	<0.050
Sodium	mg/L	NS	10 ^a	520	430	420	1400	960
Specific Conductance	µmhos/cm	NS	10	5,800	5,800	5,700	8,600	7,200
Sulfate	mg/L	600	5.0 ^a	1,800	1,900	1,900	1,800	3,200
Toluene	mg/L	1	0.001	0.048	0.011	0.011	—	—
Total alkalinity	mg/L	NS	20	41	21	20	1,700	530
Total Dissolved Solids	mg/L	1000	50 ^a	4,500 E	4,600 E	4,600 E	5,200	6,000
Radium-226	pCi/L	5	1.0	0.965 ± 0.368	0.710 ± 0.303	1.03 ± 0.0340	—	—
Radium-228	pCi/L	5	1.0	1.70 ± 0.539	1.26 ± 0.640	0.753 ± 0.550	—	—

Bold indicates that value equals or exceeds standard.

^a Reporting limit affected, detection higher than reporting limit

mg/L = Milligrams per liter

NS = No standard

s.u. = Standard units

µmhos/cm = Micromhos per centimeter

pCi/L = Picocuries per liter

— = Not analyzed

E = Result exceeded calibration range

HF = Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

J = Result is less than the reporting limit but greater than or equal to the method detection limit; concentration is approximate



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Table 4. WDW-1-MW-1 Analytical Results
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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
Aluminum, dissolved	200.7	5	0.02	0.020	<0.020	0.020	<0.020	<0.020
Barium, dissolved	200.7	2	0.003	0.0030	0.087	0.030 ^b	0.058	0.062
Beryllium, dissolved	200.7	0.004	0.002	0.0020	<0.020	0.0020	<0.020	<0.020
Boron, dissolved	200.7	0.75	0.04	0.40 ^b	1.6	0.40 ^b	1.7	1.7
Calcium, dissolved	200.7	—	1	10 ^b	820	10 ^b	730	720
Cadmium, dissolved	200.7	0.005	0.002	0.0020	<0.0020	0.0020	<0.0020	<0.0020
Chromium, dissolved	200.7	0.05	0.006	0.0060	<0.0060	0.060 ^b	<0.060	<0.060
Cobalt, dissolved	200.7	0.05	0.006	0.0060	<0.0060	0.060 ^b	<0.060	<0.060
Iron, dissolved	200.7	1	0.02	0.020	<0.020	0.020	<0.020	<0.020
Magnesium, dissolved	200.7	—	1	10 ^b	51	10 ^b	110	100
Manganese, dissolved	200.7	0.2	0.002	0.0020	ND	0.020 ^b	0.065	0.063
Molybdenum, dissolved	200.7	1	0.008	0.0080	0.080	0.0080	0.053	0.049
Potassium, dissolved	200.7	—	1	1.0	28	1.0	31	29
Sodium, dissolved	200.7	—	1	10 ^b	520	10 ^b	430	420
Nickel, dissolved	200.7	0.2	0.01	0.010	<0.010	0.10 ^b	<0.10	<0.10
Zinc, dissolved	200.7	10	0.01	0.010	<0.010	0.10 ^b	<0.10	<0.10
Antimony, dissolved	200.8	0.006	0.001	0.0050 ^b	<0.0050	0.0010	0.00044 J	0.00055 J
Arsenic, dissolved	200.8	0.01	0.001	0.0025 ^b	<0.0025	0.00050	0.0013	0.0011
Copper, dissolved	200.8	1	0.001	0.0025 ^b	<0.00050	0.00050	<0.00050	0.00050

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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
Lead, dissolved	200.8	0.015	0.0005	0.0025 ^b	<0.0025	0.00050	<0.00050	<0.00050
Selenium, dissolved	200.8	0.05	0.001	0.0050 ^b	0.0060	0.0010	0.0023	0.0023
Silver, dissolved	200.7	0.05	0.005	0.0050	<0.0050	0.0050	0.0097	0.010
Thallium, dissolved	200.8	0.002	0.00025	0.0013 ^b	<0.0013	0.00025	<0.00025	0.00025
Uranium, dissolved	200.8	0.03	0.0005	0.0025 ^b	<0.0025	0.00050	<0.00050 ^{^+}	<0.00050 ^{^+}
Mercury, total	245.1	0.002	0.0002	0.00020	<0.00020	0.00020	<0.00020	<0.00020
Bromide	300	—	0.1	1.0 ^b	1.7	1.0 ^b	1.6	1.5
Chloride	300	250	0.5	50 ^b	1,100	50 ^b	1,100	1,100
Fluoride	300	1.6	0.1	1.0 ^b	ND	1.0 ^b	0.51 J	0.51 J
Nitrate	300	10	0.1	1.0 ^b	<1.0	1.0 ^b	<1.0	<1.0
Nitrite	300	1	0.1	10 ^b	<10	1.0 ^b	<1.0	<1.0
Sulfate	300	600	0.5	5.0 ^b	1,800	5.0 ^b	1,900	1,900
Perchlorate	331.0	—	0.00005	0.00020 ^b	0.00069	0.50 ^b	0.54	0.16 J
Cyanide	335.4 ^c	0.2	0.01	0.025 ^b	<0.025	0.025 ^b	<0.025	<0.025
1,2-Dibromoethane (EDB)	504.1 ^c	0.00005	0.00001	0.0000096	<0.0000096	0.001	< 0.001	< 0.001
Perfluorohexane sulfonic acid (PFHxS)	537	—	0.00001	0.0000018	<0.0000018	0.0000018	<0.0000018	<0.0000018
Perfluorooctane sulfonate (PFOS)	537	—	0.00001	0.0000018	0.00000050 J	0.0000018	<0.0000018	<0.0000018

Notes are provided at the end of the table.

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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
Perfluorooctanoic acid (PFOA)	537	—	0.00001	0.0000018	0.00000046 J	0.0000018	<0.0000018	<0.0000018
Perfluorohexanoic acid (PFHxA)	537	—		0.0000018	0.0000017 J	0.0000018	0.00000052 J	0.00000052 J
Aldrin	8081	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
DDT	8081	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
Dieldrin	8081	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
Polychlorinated biphenyls (PCBs)	8082	0.0005	0.00025	0.0004 ^b	<0.0004	0.00025	<0.00025	<0.00025
2,4,5-TP (Silvex)	8151	—	0.0001	0.00051 ^b	<0.00051	0.00054 ^b	<0.00054	<0.00054
2,4-D (2,4-Dichlorophenoxyacetic acid)	8151	—	0.0001	0.0051 ^b	<0.0051	0.0054 ^b	<0.0054	<0.0054
Monochlorobenzene	8260	—	0.0001	0.0001	<0.0001	0.001 ^b	<0.001	<0.001
Thiolane 1,1 dioxide (sulfolane)	8270	—	Narrative only	0.010	<0.010	0.010	<0.010	<0.010
2,4,6-Trinitrotoluene (TNT)	8330	—	0.00338	0.0011	<0.0011	0.0011	<0.0011	<0.0011
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	8330	—	0.00338	0.0011	<0.0011	0.0011	<0.0011	<0.0011
Octrahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	8330	—	0.00338	0.0011	<0.0011	0.0011	0.00022 J	0.00026 J

Notes are provided at the end of the table.

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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
Alkalinity, total	2320B	—	20	20	41	20	21	20
Bicarbonate	2320B	—	20	20	<20	20	<20	<20
Carbonate	2320B	—	2	2.0	27	20	16	17
Specific conductance (µmhos/cm), lab	2510B	—	10	10	5,800	10	5,800	5,700
Total dissolved solids	2540C	1,000	20	50 ^b	4,500 E	50 ^b	4,600 E	4,600 E
Chlordane	8081A ^c	—	0.001	0.0002	<0.0002	0.001	<0.001	<0.001
Endosulfan	8081A ^c	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
Endrin	8081A ^c	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
Heptachlor (and its epoxide)	8081A ^c	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
Hexachlorocyclohexane (HCH, lindane): alpha-HCH, beta-HCH, gamma-HCH, and technical-HCH	8081A ^c	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
Lindane	8081A ^c	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
Methoxychlor	8081A ^c	—	0.0001	0.000020	<0.000020	0.00010	<0.00010	<0.00010
Toxaphene	8081A ^c	—	0.001	0.0004	<0.0004	0.002 ^b	<0.002	<0.002
1,1,1-Trichloroethane (TCA)	8260B	0.2	0.001	0.001	<0.001	0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	8260B	0.01	0.001	0.002 ^b	<0.002	0.002 ^b	<0.002	<0.002
1,1,2-Trichloroethane	8260B	0.005	0.001	0.001	<0.001	0.001	<0.001	<0.001

Notes are provided at the end of the table.

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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
1,1-Dichloroethane	8260B	0.025	0.001	0.001	<0.001	0.001	<0.001	<0.001
1,1-Dichloroethene (1,1-DCE)	8260B	0.007	0.001	0.001	<0.001	0.001	<0.001	<0.001
1,2,4-Trichlorobenzene	8260B	0.07	0.001	0.001	<0.001	0.001	<0.001	<0.001
1,2-Dichlorobenzene	8260B	0.6	0.001	0.001	<0.001	0.001	<0.001	<0.001
1,2-Dichloroethane (EDC)	8260B	0.005	0.001	0.001	<0.001	0.001	<0.001	<0.001
1,2-Dichloropropane	8260B	0.005	0.001	0.001	<0.001	0.001	<0.001	<0.001
1,4-Dichlorobenzene	8260B	0.075	0.001	0.001	<0.001	0.001	<0.001	<0.001
1-Methylnaphthalene	8260B	—	0.004	0.004	<0.004	0.004	<0.004	<0.004
2-Methylnaphthalene	8260B	—	0.004	0.004	<0.004	0.004	<0.004	<0.004
Acrolein	8260B	—	0.01	0.02*	<0.002	0.01	<0.001	<0.001
Acrylonitrile	8260B	—	0.01	0.01	<0.001	0.01	<0.001	<0.001
Benzene	8260B	0.005	0.001	0.001	0.00031 J	0.001	0.00019 J	0.00018 J
Bromodichloromethane	8260B	—	0.001	0.001	<0.001	0.001	<0.001	<0.001
Bromomethane	8260B	—	0.002	0.003 ^b	<0.003	0.003 ^b	<0.003	<0.003
Carbon tetrachloride	8260B	0.005	0.001	0.001	<0.001	0.001	<0.001	<0.001
Chlorobenzene	8260B	—	0.001	0.001	<0.001	0.001	<0.001	<0.001
Chloroform	8260B	0.1	0.001	0.001	<0.001	0.001	<0.001	<0.001
Chloromethane	8260B	—	0.001	0.003 ^b	<0.003	0.003 ^b	<0.003	<0.003

Notes are provided at the end of the table.

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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
Chloroethene (vinyl chloride)	8260B	—	0.001	0.002 ^b	<0.002	0.002 ^b	<0.002	<0.002
cis-1,2-dichloroethene	8260B	0.07	0.001	0.001	<0.001	0.001	<0.001	<0.001
Dichlorodifluoromethane (fluorocarbon-12)	8260B	—	0.001	0.001	<0.001	0.001	<0.001	<0.001
Ethylbenzene	8260B	0.7	0.001	0.001	<0.001	0.001	<0.001	<0.001
Methyl ethyl ketone	8260B	—	0.01	0.01	<0.01	0.01	<0.01	<0.01
Methyl tertiary-butyl ether (MTBE)	8260B	0.1	0.001	0.001	<0.001	0.001	<0.001	<0.001
Methylene chloride	8260B	0.005	0.001	0.0025	<0.0025	0.0025	<0.0025	<0.0025
Naphthalene (CAS 91-20-3)	8260B	—	0.002	0.002	<0.002	0.002	<0.002	<0.002
Styrene	8260B	0.1	0.001	0.001	<0.001	0.001	<0.001	<0.001
Tetrachloroethene (PCE)	8260B	0.005	0.001	0.001	<0.001	0.001	<0.001	<0.001
Tetrachloromethane (carbon tetrachloride)	8260B	0.005	0.001	0.001	<0.001	0.001	<0.001	<0.001
Toluene	8260B	1	0.001	0.001	0.048	0.001	0.011	0.011
trans-1,2-Dichloroethene	8260B	0.1	0.001	0.001	<0.001	0.001	<0.001	<0.001
Tribromomethane (bromoform)	8260B	—	0.001	0.001	<0.001	0.001	<0.001	<0.001
Trichloroethene (TCE)	8260B	0.005	0.001	0.001	<0.001	0.001	<0.001	<0.001

Notes are provided at the end of the table.

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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
Trichlorofluoromethane (fluorocarbon-11)	8260B	—	0.001	0.001	<0.001	0.001	<0.001	<0.001
Trichloromethane (chloroform)	8260B	—	0.001	0.001	<0.001	0.001	<0.001	<0.001
Vinyl chloride	8260B	0.002	0.001	0.001	<0.001	0.001	<0.001	<0.001
Xylenes (total) including m-, o-, and p-xylenes	8260B	0.62	0.002	0.0015	<0.0015	0.0015	<0.0015	<0.0015
1,4-Dioxane	8270C ^c	—	0.001	0.00050	<0.00050	0.00050	<0.00050	<0.00050
2,4,5-Trichlorophenol	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
2,4,6-Trichlorophenol	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
2,4-Dichlorophenol	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
2,4-Dinitro-o-cresol	8270C	—	0.0005	0.002 ^b	<0.002	0.002 ^b	<0.002	<0.002
2,4-Dinitrotoluene	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
2,6-Dinitrotoluene (2,6-DNT)	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
3,4-Benzofluoranthene (8270C	—	0.0005	0.00020	<0.00020	0.00020	<0.00020	<0.00020
Anthracene	8270C ^c	—	0.0003	0.00020	<0.00020	0.00020	<0.00020	<0.00020
Atrazine	8270C	0.003	0.0015	0.01 ^b	<0.01	0.00050	<0.00050	<0.00050
Benzidine	8270C	—	0.0005	0.025 ^b	<0.025	0.01 ^b	<0.01	<0.01
Benzo(k)fluoranthene	8270C ^c	—	0.0003	0.00020	0.00020	0.00020	<0.00020	0.00020
Benzo-a-pyrene	8270C ^c	0.0002	0.00014	0.000070	<0.000070	0.000070	<0.000070	<0.000070

Notes are provided at the end of the table.

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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
bis (2-chloroethyl) ether	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
bis (2-chloroisopropyl) ether	8270C	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
Cresol (methylphenol sum)	8270C	—	0.0005	0.003	1.08 J	0.002	0.000508 J	0.00040 J
Di-2-ethylhexyl phthalate (DEHP)	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
Dibutyl phthalate	8270C ^c	—	0.0005	0.0015 ^b	ND	0.0015 ^b	ND	ND
3,3-Dichlorobenzidine	8270C ^c	—	0.0001	0.001	<0.001	0.001	<0.001	<0.001
Dichloropropenes	8270C ^c	—	0.0001	0.010 ^b	<0.010	0.010 ^b	<0.010	<0.010
Diethyl phthalate (DEP)	8270C ^c	—	0.0005	0.0015 ^b	<0.0015	0.0015 ^b	<0.0015	<0.0015
Dimethyl phthalate (DMP)	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
Dinitrophenols	8270C ^c	—	0.0001	0.003 ^b	<0.003	0.003 ^b	<0.003	<0.003
Diphenylhydrazine	8270C	—	0.0001	0.001 ^b	<0.001	—	—	—
Fluoranthene	8270C ^c	—	0.0003	0.0002	<0.0002	0.00020	<0.00020	<0.00020
Fluorene	8270C ^c	—	0.0003	0.0002	<0.0002	0.00020	<0.00020	<0.00020
Hexachlorobenzene	8270C ^c	—	0.0005	0.005 ^b	<0.005	0.005 ^b	<0.005	<0.005
Hexachlorobutadiene	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.005 ^b	<0.005	<0.005
Hexachlorocyclopentadiene	8270C ^c	—	0.0005	0.005 ^b	<0.005	0.005 ^b	<0.005	<0.005
Hexachloroethane	8270C ^c	—	0.0005	0.005 ^b	<0.005	0.005 ^b	<0.005	<0.005
Isophorone	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001

Notes are provided at the end of the table.

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Table 4. WDW-1-MW-1 Analytical Results
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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
m-Cresol and p-Cresol (3&4 methylphenol)	8270C	—	0.0005	0.0001	0.00075 J	0.001 ^b	0.00044 J	0.00040 J
Nitrobenzene	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
N-nitrosodibutylamine	8270C ^c	—	0.0005	0.001 ^b	<0.010	0.010 ^b	<0.010	<0.010
N-nitrosodiethylamine	8270C	—	0.0005	0.010 ^b	<0.010	0.010 ^b	<0.010	<0.010
N-nitrosodimethylamine	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
N-nitrosodiphenylamine	8270C ^c	—	0.0005	0.001 ^b	<0.001	0.001 ^b	<0.001	<0.001
N-nitrosopyrrolidine	8270C ^c	—	0.0005	0.010 ^b	<0.010	0.010 ^b	<0.010	<0.010
o-Cresol (2-methylphenol)	8270C ^c	—	0.0005	0.001	0.00033 J	0.001 ^b	0.000068 J	<0.001
PAHs (total naphthalene plus monomethylnaphthalenes)	8270C ^c	0.03	0.0003	0.01	<0.01	0.0006 ^b	<0.0006	<0.0006
Pentachlorobenzene	8270C ^c	—	0.0005	0.010	<0.010	0.010 ^b	<0.010	<0.010
Pentachlorophenol	8270C ^c	0.001	0.0003	0.00033	<0.00033	0.00033	<0.00033	<0.00033
Phenanthrene	8270C ^c	—	0.0003	0.00020	<0.00020	0.00020	<0.00020	<0.00020
Phenol	8270C ^c	0.005	0.0005	0.001 ^b	0.0022	0.010 ^b	<0.010	<0.010
Phenols, total	420.4	0.005	0.0005	0.005 ^b	0.012	0.0050	<0.0050	<0.0050
Prometon	8270C ^c	—	0.0005	0.0027 ^b	<0.0027	0.010 ^b	<0.010	<0.010
Pyrene	8270C ^c	—	0.0005	0.0002	<0.0002	0.00020	<0.00020	<0.00020
Pyridine	8270C ^c	—	0.0005	0.01 ^b	<0.01	0.010 ^b	<0.010 *+	<0.010 *+

Notes are provided at the end of the table.

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Table 4. WDW-1-MW-1 Analytical Results
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Parameter	Laboratory Method	Concentration (mg/L ^a)						
		NMAC Standard	Work Plan Reporting Limit	June 2025		August 2025		
				Laboratory Reporting Limit	WDW-1-MW-1	Laboratory Reporting Limit	WDW-1-MW-1	WDW-1-MW-1 (Duplicate)
1,2,4,5-Tetrachlorobenzene	8270E	—	0.0005	0.010 ^b	<0.010	0.010 ^b	<0.010	<0.010
2-Nitrophenol	8270E	—	—	0.001	0.00012 J	0.001	<0.001	<0.001
Benzyl alcohol	8270E	—	—	0.001	0.00059 J	0.001	0.00018 J	0.00017 J
Radium-226 and -228 combined (pCi/L)	903.0 and 904.0	5 pCi/L	<5	1.00	2.665 ± 0.907	1.00	1.97 ± 0.943	1.783 ± 0.89
pH (s.u.), lab	9040C ^c	6–9	~2–12	0.1	9.5 HF	0.1	9.2 HF	9.2 HF
pH (s.u.), field	Field	6–9	~2–12	—	10.97	—	10.09	10.09
Temperature (°C), field	Field	—	—	—	21.8	—	23.4	23.4
Dissolved oxygen, field	Field	—	—	—	2.9	—	0.75	0.75
Specific conductance (µmhos/cm), field	Field	—	—	—	5,874	—	5,090	5,090
Oxidation/reduction potential (mV), field	Field	—	—	—	-118.9	—	124.9	124.9
Turbidity (NTU), field	Field	—	—	—	7.12	—	0.02	0.02

Notes are provided on the next page.



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Table 4. WDW-1-MW-1 Analytical Results Page 11 of 11

Source: 20.6.2.3103 NMAC and 20.6.2.7 NMAC "Toxic Parameters"

Bold indicates that the value equals or exceeds standard.

^a Unless otherwise noted.

^b Reporting limit affected, detection is higher than reporting limit.

^c Samples were tested under equivalent methods as follows: Method 335.4 was tested under SM 4500. Method 504.1 was tested under 8011. Method 8081A was tested under 8081B.

Method 8270C was tested under 8270E. Total phenols were also tested under method 420.4. Method 9040C was tested under SM 4500.

mg/L = Milligrams per liter

— = Unspecified

µmhos/cm = Micromhos per centimeter

mV = Millivolts

NTU = Nephelometric turbidity unit(s)

pCi/L = Picocuries per liter

s.u. = Standard units

NA = Not applicable

E = Result exceeded calibration range

HF = Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request

J = Result is less than the reporting limit but greater than or equal to the MDL and the concentration is approximate

U = Result is less than the sample detection limit

^+ = Continuing calibration verification (CCV) is outside acceptance limits, high biased

*+ = LCS and/or LCSD is outside acceptance limits, high biased



Table 5. Water Quality Statistics, Effluent, Roswell Artesian Basin, and WDW-1-MW-1
Page 1 of 2

Analyte	Number of Samples	Concentration (mg/L ^a)		
		Minimum	Maximum	Mean
<i>HFSNR WWTP Effluent</i>				
Bicarbonate	29	310	1,700	574
Conductivity (µS/cm)	29	4,100	8,600	6,376
Total dissolved solids	29	3,130	5,850	4,652
Chloride	29	300	860	539
Sulfate	29	1,500	3,400	2,193
Calcium	29	310	550	411
Magnesium	29	100	220	134
Sodium	29	360	1,400	774
<i>Roswell Artesian Basin (RAB)</i>				
Bicarbonate	632	126	876	282
Total dissolved solids	632	1.33	176,000	4,993
Chloride	632	3	115,000	1,202
Sulfate	632	59	9,600	1,095
Calcium	632	23	2,560	349.7
Magnesium	632	5.5	1,900	133
Sodium	632	1.6	9,000	677
<i>WDW-1-MW-1</i>				
Bicarbonate	2	<20	<20	<20
Conductivity (µS/cm)	2	5,800	5,800	5,800

Notes are provided at the end of the table.



Table 5. Water Quality Statistics, Effluent, Roswell Artesian Basin, and WDW-1-MW-1
 Page 2 of 2

Analyte	Number of Samples	Concentration (mg/L ^a)		
		Minimum	Maximum	Mean
<i>WDW-1-MW-1 (cont.)</i>				
Total dissolved solids	2	4,500	4,600	4,550
Chloride	2	1,100	1,100	1,100
Sulfate	2	1,800	1,900	1,850
Calcium	2	730	820	775
Magnesium	2	51	110	80.5
Sodium	2	430	520	475

Sources: Appendix L; Land, 2016
 mg/L = Milligrams per liter
 µS/cm = Microsiemens per centimeter

Appendix A

Work Plan



Work Plan for Monitor Well Installation and Sampling

HF Sinclair Navajo Refinery

Artesia, New Mexico

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this work plan to install four monitor wells and complete water quality sampling at each of the four underground injection control (UIC) wells at the HF Sinclair Navajo Refinery (HFSNR) in Artesia, New Mexico. This work plan has been prepared on behalf of HFSNR at the request of the New Mexico Energy, Minerals, and Natural Resources Department (NMEMNRD) Oil Conservation Division (OCD). This work plan incorporates project details for the drilling of four monitor wells as stated in Condition 2B of the UIC discharge permits (UICI-008-1, UICI-008-2, UICI-008-3, and UICI-008-4), which are up for renewal November 22, 2022. The described monitor wells are intended to evaluate the uppermost water-bearing unit downgradient of injection wells (WDW-1, -2, -3 and -4) for water level and water quality monitoring. All activities proposed in this work plan will be completed under the guidance of OCD's quality assurance project plan (QAPP) (OCD, 2014) and DBS&A standard operating procedures (SOPs).

2. Scope of Work

This work plan includes a detailed description of monitor well installation and groundwater quality monitoring as part of OCD's request and UIC discharge permits (UICI-008-1, UICI-008-2, UICI-008-3, and UICI-008-4). Monitor well installation will meet requirements as stated in discharge permits Section 2B, as well as OCD e-mailed instructions, as follows:

At least one groundwater monitoring well shall be installed in proximity of and hydrogeologically downgradient from WDW-2. The monitoring well(s) shall be screened into the uppermost water-bearing unit using 15 feet of well screen with the top of the screened interval positioned 5 feet above the water table. (Discharge permit Section 2B)



Work Plan for Monitor Well Installation and Sampling HF Sinclair Navajo Refinery

Objective: Place a groundwater monitoring well within 50 ft hydrogeologically downgradient from each WDW injection well location with a quarterly monitoring schedule consistent with related permit reporting. Monitor well construction shall be as prescribed by the current permit or as approved by the OCD based on site-specific conditions. Provide well logs with water quality (i.e., General Chemistry, TPH and BTEX) data from completed and/or constructed MWs to complete the WQCC Public Notice process. (OCD requirements sent via e-mail by Carl Chavez)

2.1 Site Evaluation and Field Preparation

2.1.1 Project Planning

DBS&A will ensure that all necessary monitor well permits, UIC well access, and utility clearances are obtained. A site-specific health and safety plan (HASP) will be drafted to address health and safety issues associated with the proposed project activities. The HASP will be adhered to by all DBS&A personnel and subcontractors while working on the project.

The following is the projected milestone schedule for monitor well installation. The schedule is subject to change based on driller availability. The schedule with projected dates will be drafted upon OCD acceptance of the work plan and selection of the drilling contractor.

- New Mexico Office of the State Engineer (OSE) permits and drilling contractor quotes: 60 days from OCD work plan approval.
- Contract signed and work scheduled with drilling contractor: 90 days from OCD work plan approval.
- Drillers and DBS&A mobilize to the field: 120 days from contract date with drilling contractor [subject to change depending on driller availability].
- Drilling schedule will be communicated to OCD
 - ◇ Carl Chavez: 505.660.7923, carlj.chavez@emnrd.nm.gov
 - ◇ Phil Goetz: 505.660.8274, phillip.goetze@emnrd.nm.gov
- Monitor wells completed and developed: 60 days from field mobilization. Expecting each monitor well may require approximately 1.5 weeks for drilling, water-bearing zone evaluation, construction, and well development.
- Water quality sampling event: Within 60 days of completion and development of the monitor well.



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- Monitor well survey: 90 days from date of completion of the monitor well [subject to change depending on contractor availability].
- Waste material characterization and disposal: 90 days from completion of the final monitor well [subject to change depending on contractor availability].
- Well completion report: 90 days after water quality results are received from the analytical laboratory.

2.1.2 Permitting and Well Locations

Bureau of Land Management (BLM) permit form SF-299 will be submitted upon OCD approval of this work plan. OSE W-07 form for monitor well installation will be submitted, with approval received prior to field mobilization. The current land owner for UIC well WDW-1 has been contacted for land access permissions. Written permission of access will be included in the OSE permit applications. Appropriate permits will be obtained with recognition that OCD has environmental jurisdiction. Every effort will be made to ensure permitting does not delay the schedule.

The proposed monitor well locations are provided on Figures 1 through 2d. Monitor well locations will be pre-approved by OCD prior to submission of permit applications. In compliance with OCD, each of the four monitor wells will be installed within 75 feet southwest (hydrologically downgradient) of each UIC well. Monitor wells have been located as close as possible to the requested OCD footage allowance of 50 feet and directionally to the southwest. Monitor wells locations were placed with OCD approval to avoid existing infrastructure and existing UIC well access points. Monitor wells are labeled with UIC well ID in addition to the MW-1 designation; for example, the monitor well at WDW-4 will receive a well name of WDW-4-MW-1 (Figures 1 and 2d).

2.1.3 Utility Clearance

Each of the four well locations will be cleared for underground lines or utilities through proper channels: New Mexico One Call (NMOC) and refinery historical documents and maps. The drilling contractor will be responsible for submitting the request to NMOC at least 10 days prior to project kickoff and drill rig mobilization. Each monitor well location will be clearly marked with stakes and a white paint circle per NMOC directions. In addition to the NMOC utility clearance, each monitor well location will be evaluated with a hydrovac unit. Prior to the hydrovac excavation, the hydrovac contractor will submit a NMOC within 48 hours of breaking



ground. Use of the hydrovac unit will follow standard clearance procedure as directed by HFSNR. The well location will be at the center of the 5-foot by 5-foot "L"-shaped excavation area, where the area will be cleared to a minimum depth of 10 feet. The excavated material will be visually inspected for any evidence of environmental contamination. Regardless of whether impacted or clean, the materials will be contained and transported within the vac truck to the refinery for safe storage and security. Materials will be labeled properly, characterized, and then appropriately managed with off-site disposal. The NMOC and the hydrovac clearance will be completed prior to any excavation by the drilling contractor.

2.1.4 Drilling Access

Existing dirt and gravel roads are expected to provide stable access for the drilling rig. No overhead obstacles exist.

2.2 Drilling and Well Installation

2.2.1 Drilling and Lithology

HF Sinclair will contract with a drilling contractor that has a current and valid New Mexico well driller license issued by the OSE per 19.27.4 NMAC. The driller will install one monitor well at each of the UIC well locations. Each monitor well will be installed within 75 feet southwest (hydrologically downgradient) of each existing UIC well. The proposed monitor well locations are provided on Figures 1 through 2d.

Because the depths of the significant water-bearing zones are unclear, a temporary well will be installed and used to evaluate observed water-bearing zones.

The drilling contractor will advance each borehole (one at each UIC well location) using a sonic drilling method. The borehole will be advanced to a depth of 70 feet, where water is expected based on other wells in the area. Starting at 70 feet, the sonic core barrel will be removed from the borehole prior to advancement of the sonic outer casing. Core samples from the core barrel will be evaluated by the on-site DBS&A geologist. If the core samples appear saturated, a temporary polyvinyl chloride (PVC) casing will be installed in the borehole, and groundwater will be allowed to fill the borehole for a period of 2 hours.

Borehole groundwater in this temporary setup will be purged with a bailer or pump for initial evaluation. Field parameters will be assessed and recorded from each water bearing zone



Work Plan for Monitor Well Installation and Sampling HF Sinclair Navajo Refinery

(i.e., temporary well). If parameters indicate a likely total dissolved solid (TDS) concentration above 10,000 mg/L, a laboratory water quality sample will be collected and analyzed for TDS.

If the borehole appears to yield significant water, an attempt will be made to determine the specific capacity of the well during bailing or pumping. Specific capacity is the flow rate divided by the change in drawdown. Evaluation of the specific capacity results, field observations, and best professional judgement will be used to determine if a significant water-bearing zone was found. In general, the objective is to locate the local or regional water table aquifer (if present), not a perched zone.

These processes will be repeated in an iterative fashion until the borehole reaches a total depth of 150 feet. The borehole will be advanced to 150 feet regardless of significant water-bearing zone evaluation results unless OCD directs otherwise during borehole installation.

If the formation collapses into the exposed borehole annular space and PVC cannot be lowered to the desired depth, a sonic hydropunch sampler will be advanced to the desired depth. The sonic water sampler is equipped with a solid retrievable point and 2-inch diameter stainless steel screen that is 2 feet in length. The water sampler screen will be exposed, and the borehole will be left for 2 hours to allow for groundwater evaluation.

Final well design will be determined using results from significant water-bearing zone evaluation and best professional judgement. We will attempt to contact OCD as needed during borehole installation and at the completion of borehole drilling for comment on the well design.

The monitor well(s) will be screened into the significant water-bearing unit using 15 feet of well screen with the top of the screened interval positioned 5 feet above the water table, as indicated in Section 2B of the UIC discharge permits (UICI-008-1, UICI-008-2, UICI-008-3, and UICI-008-4). If the well design yields a screen interval above the total borehole depth of 150 feet, a bentonite seal will be installed via tremie from borehole bottom to seal off the lower portion of the borehole. The bentonite seal will be allowed to hydrate per manufacturer guidelines, with a minimum hydration time of 1 hour.

If the borehole is advanced to 150 feet without identification of a significant water-bearing zone, no monitor well will be installed.

A photoionization detector (PID) will be available on-site and will be used to measure any core samples that appear to contain volatile organic compounds based on best professional judgement. If odor or visual staining indicates contamination in core samples, the core sample



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section will be placed in zip-close bags in the sun for PID analysis (DBS&A SOP 3.8 included in Appendix A). Any cores with an indication of volatiles will be tested using the PID following the SOP in Appendix A. No soil samples will be submitted for laboratory analysis. DBS&A technical staff will maintain detailed logs of materials encountered during drilling and will supervise all field activities.

2.2.2 Construction Water

The drilling contractor will obtain access to potable water needed during construction. Sonic drilling requires 500 to 1,000 gallons of water per day to wet the geologic formation and release core materials from the override casing. Potable water is expected to be available at the refinery, and the drilling contractor is expected to coordinate with refinery staff. The drilling contractor will supply a water truck. U.S. Environmental Protection Agency (EPA) environmental site decontamination protocols will be followed at all times. Proper decontamination of the drill rig, tools, drill pipe, drill bits, and equipment cleaning will be completed with potable water on the well pad at each location. Any fluids generated or used in the process of decontamination will be contained and disposed of properly using containment pads or other appropriate materials.

2.2.3 Waste Disposal

All solid waste will be contained on location and removed by the refinery's on-site waste disposal contractor, S Brothers Waste Services, Inc. (S Brothers). All fluid waste will be contained in totes and transported to the refinery for disposal. All waste material will be visually inspected for any evidence of environmental contamination. The materials will be contained and transported to the refinery for storage and characterization. Materials (including hydrovac soils) will be hauled off-site for proper disposal.

2.2.4 Well Installation

As required by the OCD, monitor wells will be constructed in compliance with state requirements (OCD and Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines, Revision 1.1). Wells will be completed using single casing Schedule 40 (SCH 40) PVC materials. The wells will include 0.020-inch-slot, machine-cut, certa-lok well screen with blank casing to the surface. Well screen will be set to split the water table with the screened interval such that 5 feet of screen sits above the water table and 10 feet of screen sits below the water table. Due to a regional decline in groundwater levels, we may consider requesting a longer screen interval than the 15 feet required by OCD. A filter pack



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consisting of 10/20 silica sand will be installed in the well annulus from the bottom of the soil boring to at least 2 feet above the top of the screen. A minimum 5-foot-thick, activated bentonite pellet seal will then be installed on top of the filter pack and hydrated. The remaining annulus will be filled with a cement/bentonite grout. Each well will be completed with an aluminum riser that is 2 to 3 feet above ground with a locking cap. If a well location is modified to an area with high truck traffic, a flush mount well construction will be considered. A 2-foot by 2-foot concrete pad that is 6 inches thick (minimum) will be poured around the well vault. Four bollards will be installed as a protection barrier for the well.

The drilling contractor will file all required documentation with the OSE (e.g., well records) within 30 days of monitor well installation.

2.2.5 Well Development

After completion, each newly installed monitor well will be developed by bailing and pumping methods. Pursuant to DBS&A SOPs (Appendix A), the well will be purged until temperature, pH, and conductivity have stabilized and turbidity has been reduced to the extent practicable. During pumping well development, water levels will be monitored, and an attempt will be made to calculate the specific capacity (which is the flow rate divided by the change in drawdown). All development water will be contained on-site and disposed of at the refinery or hauled off-site by S Brothers.

2.3 Water Quality Sampling

DBS&A field staff will measure fluid levels in each of the four newly installed monitor wells and will collect water quality samples for laboratory analysis. Water levels will be measured to the nearest hundredth of a foot (0.01 foot) using an electronic water level meter. The water level meter will be decontaminated between wells prior to gauging. The water level measurements will be used to develop a map showing the locations of all monitor wells and the direction and gradient of groundwater flow at the facility. Water quality sampling will be conducted within a few weeks (depending on pump availability) following well installation and development. Standard DBS&A procedures for low-flow well sampling will be followed (Appendix A).

Wells will be purged and sampled using permanent newly installed bladder pumps in each well. Water quality sample collection timing will be completed once QED or similar pumps are available. These bladder pumps will be installed to a depth such that the pump sits within the screened interval far enough off the bottom of the well to avoid any sediment entrainment into



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the pump. Once the pumps have been installed, the QED controller will be set to a low flow rate (between 0.25 and 0.5 gallon per minute [gpm]). During purging, the DBS&A field technician will measure water quality parameters, including temperature, specific conductance, and pH, to ensure that these parameters stabilize to within 10 percent for specific conductance, 2°C for temperature, and ± 0.2 pH units prior to sampling. Field parameters and volume purged will be recorded by DBS&A.

If a low-flow sampling technique cannot be sustained due to low formation water production, a standard three casing volume purge method will be used. The water level measurement will be used to calculate purge volume, where a minimum of three casing volumes will be purged from each monitor well prior to sampling. Each monitor well will be purged to ensure that stagnant water is removed from the well and that a representative sample of groundwater is obtained. Field parameters will be collected at least every casing volume during purging.

If the well goes dry, DBS&A will collect a sample upon sufficient water recovery. Sample containers will be filled as directed by an appropriately accredited laboratory. Sample containers will be opened and filled directly; no container will be rinsed prior to sample collection. A minimum volume of 1 liter will be collected and properly field filtered, with acid preservation as directed by Hall Environmental Analysis Laboratory (HEAL).

Quality assurance samples will be collected as directed in the U.S. Environmental Protection Agency (EPA) and OCD's QAPP. For laboratory and field quality assurance, one duplicate, one field blank, one trip blank, and one equipment blank will be collected during each quarterly monitoring event. A blind duplicate will be collected and labeled such that the analytical laboratory cannot determine which location was duplicated. A sample ID such as DUP1-YYYYMMDD will be used. The field blank will consist of deionized water treated as a sample at the well location. The field blank will be labeled FB1-YYYYMMDD.

Samples will be analyzed at HEAL, an OCD approved and appropriately credited analytical laboratory, for the list of constituents in Table 1. These analyses will require approximately of 1 liter of sample. If sufficient sample is not available, analytical priority will be given to volatile organics and majors cations/anions. HEAL will apply the OCD laboratory services methods agreement to these samples.

Monitor wells will be sampled quarterly concurrent with UIC well sampling. The initial sample collection will be analyzed for the baseline list as indicated in Table 1. Results from the initial monitor well sample will be statistically compared to the associated UIC well and evaluated for



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detections. HFSNR may petition OCD for a "one time" analyte list reduction for subsequent quarterly monitoring events based on evaluation of the baseline analytical results. Any reduction in analytical analysis must be approved by OCD prior to the quarterly monitoring event. If quarterly monitoring occurs before OCD has approved a reduction in analytes, the monitor wells will be sampled for the full baseline Table 1 analyte list.

2.4 Well Survey

The newly installed monitor wells will be surveyed by a New Mexico Licensed Professional Land Surveyor. Harcow Surveying has completed other surveying at the refinery; they will be contracted for this project. Survey points will be measured from ground level, top of casing inside the well riser, and the top of the cement well pad to the nearest 0.01 foot. Measurements will be collected based on feet above mean sea level from the nearest geodetic marker. Survey data will be collected based on New Mexico State Plane East Zone Coordinates and either collected or converted into latitude and longitude (to the nearest 5 decimal places) in North American Datum 1983 (NAD83).

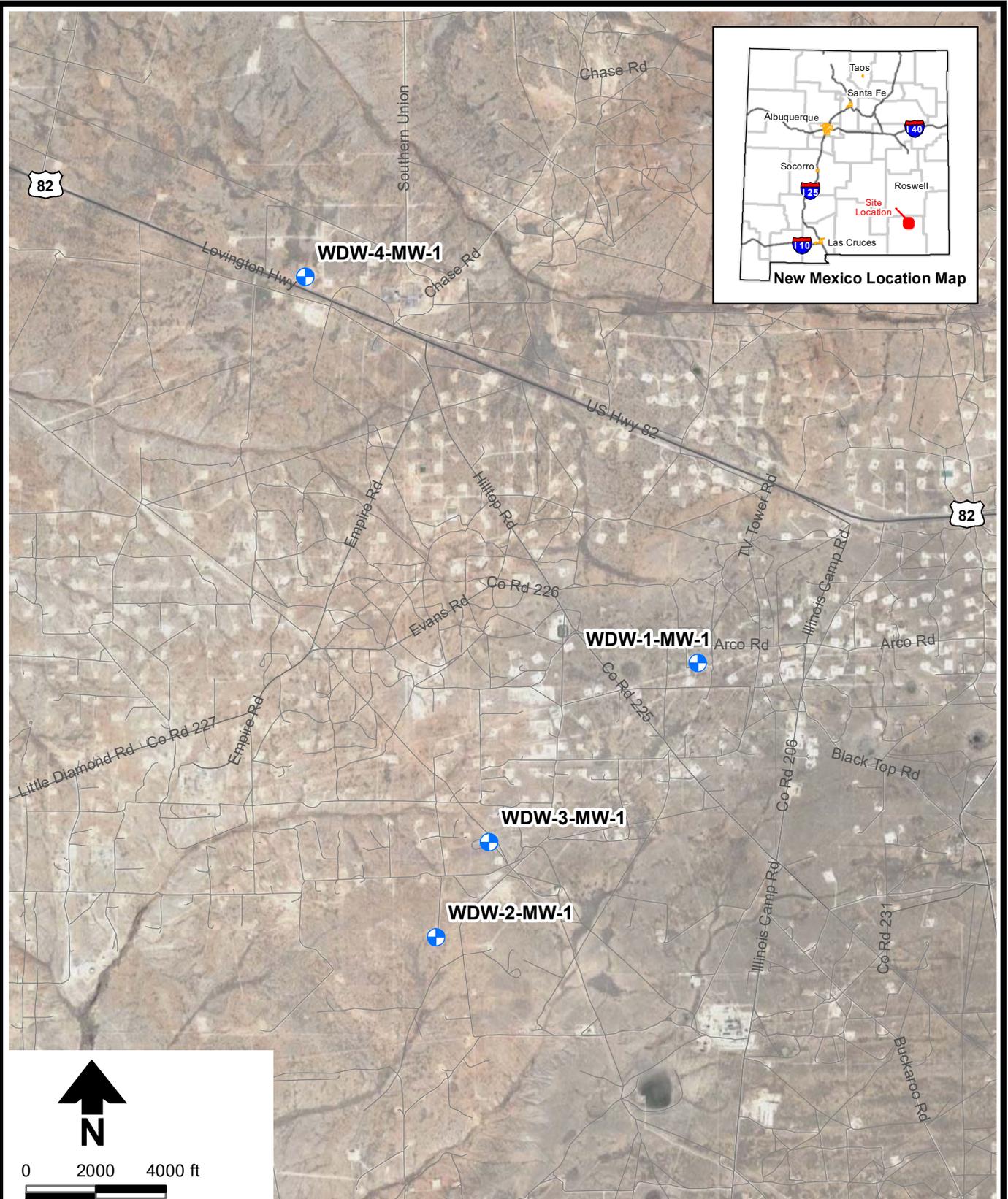
2.5 Reporting

DBS&A will prepare a well completion report summarizing project activities and well installation details. The report will contain all project-related information including survey-updated well location maps, copies of the OSE-approved permits, a description of drilling methods and materials, as-built monitor well diagrams, water quality results, and lithology. All obtained field data such also be included such as water quality parameters (pH, oxidation/ reduction potential [ORP], electrical conductivity [EC], temperature) and detailed field notes. Conclusion and recommendation sections will be part of the well completion report, as well an evaluation of water quality between the newly installed monitor wells and each associated UIC well.

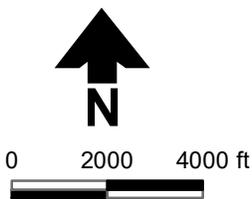
Reference

New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division (OCD). 2014. *Quality assurance protection plan, Project management, measurement/data, acquisition, assessment, oversight, data validation and usability*. June 27, 2014.

Figures



S:\PROJECTS\B22.1334_HOLLYFRONTIER_UIC_MONITOR_WELLS\GIS\MXDS\F01_AREA_MAP.MXD



Base image source: Google Earth Pro, 12/21/2019

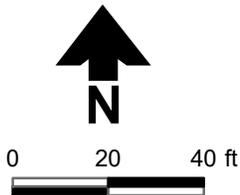
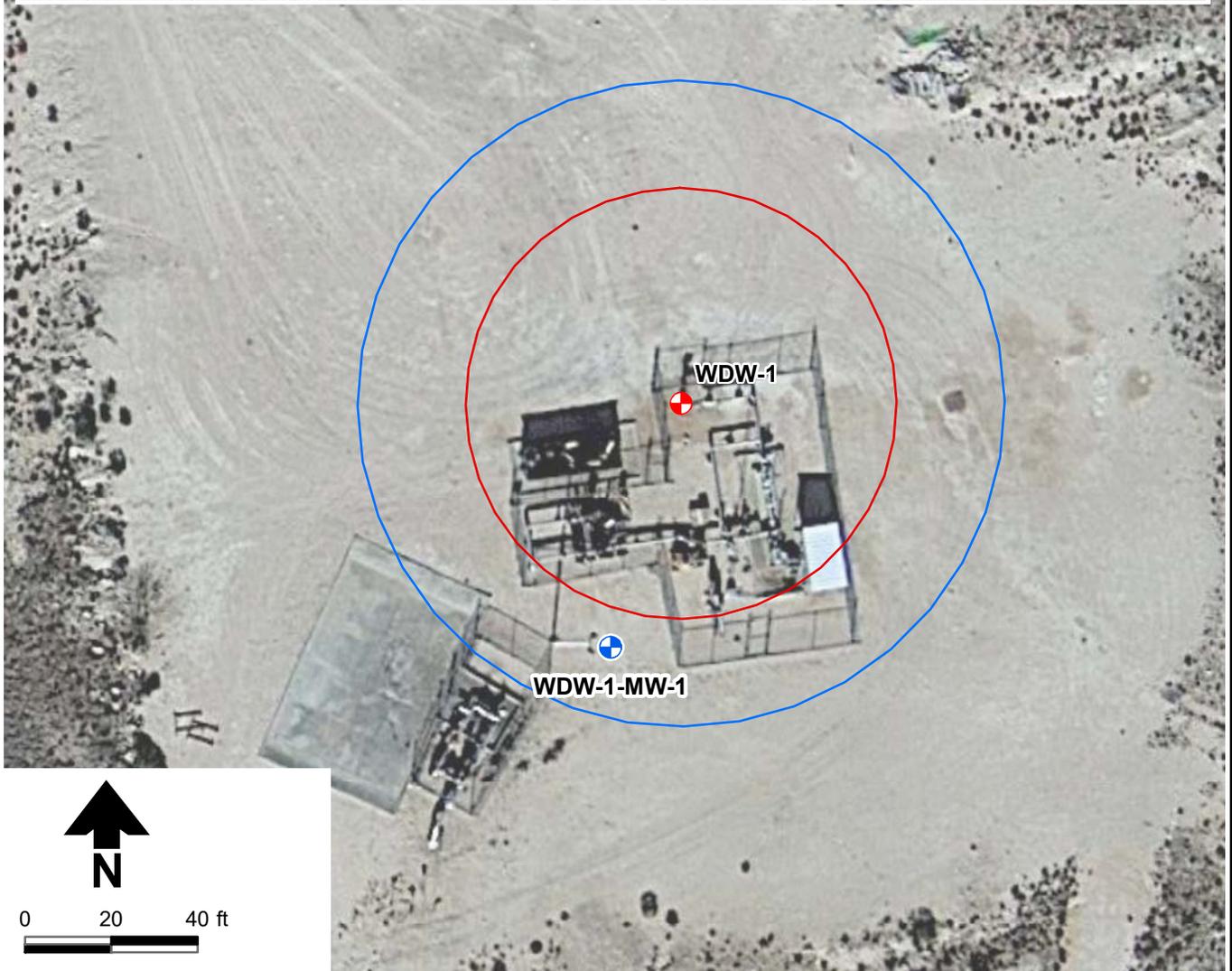
Explanation

-  Proposed monitor well location



**HF SINCLAIR NAVAJO REFINERY
Area Map**

Figure 1



Explanation

-  Proposed monitor well
-  Underground Injection Control Well (UIC)
-  50 foot radius from UIC well
-  75 foot radius from UIC well

Base image source: Google Earth Pro, 12/21/2019

HF SINCLAIR NAVAJO REFINERY

WDW-1

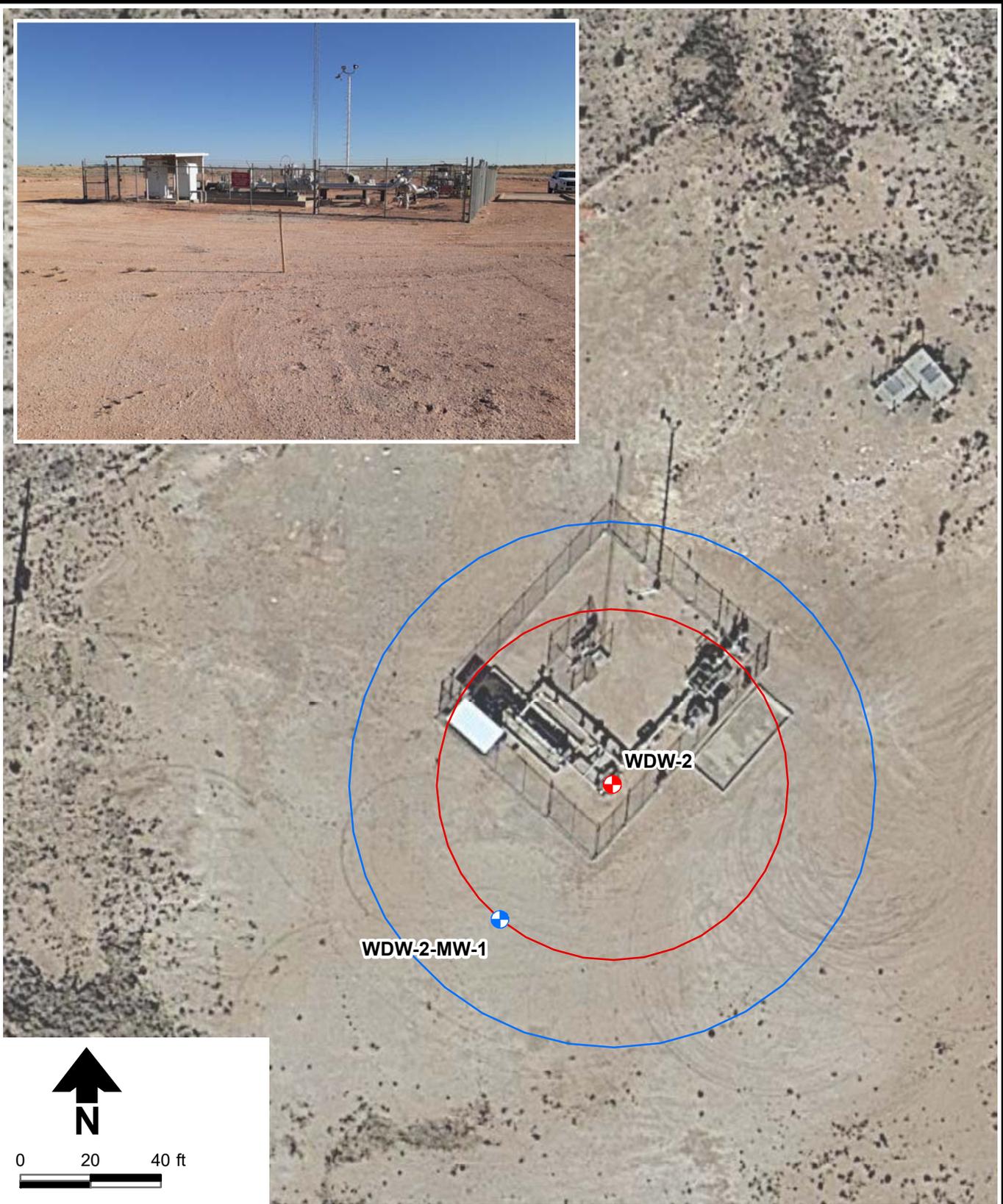
Proposed Monitor Well Location



3/15/2023 DB22.1134

Figure 2a

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Base image source: Google Earth Pro, 12/21/2019

Explanation

-  Proposed monitor well
-  Underground Injection Control Well (UIC)
-  50 foot radius from UIC well
-  75 foot radius from UIC well

HF SINCLAIR NAVAJO REFINERY

WDW-2

Proposed Monitor Well Location



3/15/2023

a Geo-Logic Company
DB22.1134

Figure 2b

S:\PROJECTS\DB22.1134_HOLLYFRONTIER_UIC_MONITOR_WELLS\GIS\MXDS\PROPOSED_MONITOR_WELLS\F02B_MONITOR_WELL-2.MXD

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Base image source: Google Earth Pro, 12/21/2019

Explanation

-  Proposed monitor well
-  Underground Injection Control Well (UIC)
-  50 foot radius from UIC well
-  75 foot radius from UIC well

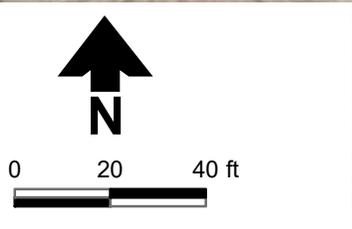


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HF SINCLAIR NAVAJO REFINERY
WDW-3
Proposed Monitor Well Location

Figure 2c



Explanation

-  Proposed monitor well
-  Underground Injection Control Well (UIC)
-  50 foot radius from UIC well
-  75 foot radius from UIC well

Base image source: Google Earth Pro, 12/21/2019

HF SINCLAIR NAVAJO REFINERY

WDW-4

Proposed Monitor Well Location



3/15/2023 DB22.1134

Figure 2d

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Table



Work Plan for Monitor Well Installation and Sampling
HF Sinclair Navajo Refinery

Table 1. Analytical Parameters
Page 1 of 9

Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
Aluminum, dissolved	200.7	5	0.02	1-125 mL HDPE (F+S)	HNO ₃	128 days
Barium, dissolved	200.7	2	0.003	1-125 mL HDPE (F+S)	HNO ₃	128 days
Beryllium, dissolved	200.7	0.004	0.002	1-125 mL HDPE (F+S)	HNO ₃	128 days
Boron, dissolved	200.7	0.75	0.04	1-125 mL HDPE (F+S)	HNO ₃	128 days
Calcium, dissolved	200.7	—	1	1-125 mL HDPE (F+S)	HNO ₃	128 days
Cadmium, dissolved	200.7	0.005	0.002	1-125 mL HDPE (F+S)	HNO ₃	128 days
Chromium, dissolved	200.7	0.05	0.006	1-125 mL HDPE (F+S)	HNO ₃	128 days
Cobalt, dissolved	200.7	0.5	0.006	1-125 mL HDPE (F+S)	HNO ₃	128 days
Iron, dissolved	200.7	1	0.02	1-125 mL HDPE (F+S)	HNO ₃	128 days
Magnesium, dissolved	200.7	—	1	1-125 mL HDPE (F+S)	HNO ₃	128 days
Manganese, dissolved	200.7	0.2	0.002	1-125 mL HDPE (F+S)	HNO ₃	128 days
Molybdenum, dissolved	200.7	1	0.008	1-125 mL HDPE (F+S)	HNO ₃	128 days
Potassium, dissolved	200.7	—	1	1-125 mL HDPE (F+S)	HNO ₃	128 days
Sodium, dissolved	200.7	—	1	1-125 mL HDPE (F+S)	HNO ₃	128 days
Nickel, dissolved	200.7	0.2	0.01	1-125 mL HDPE (F+S)	HNO ₃	128 days
Zinc, dissolved	200.7	10	0.01	1-125 mL HDPE (F+S)	HNO ₃	128 days
Antimony, dissolved	200.8	0.006	0.001	1-125 mL HDPE (F+S)	HNO ₃	128 days
Arsenic, dissolved	200.8	0.01	0.001	1-125 mL HDPE (F+S)	HNO ₃	128 days
Copper, dissolved	200.8	1	0.001	1-125 mL HDPE (F+S)	HNO ₃	128 days
Lead, dissolved	200.8	0.015	0.0005	1-125 mL HDPE (F+S)	HNO ₃	128 days

Notes are provided at the end of the table.

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Work Plan for Monitor Well Installation and Sampling
HF Sinclair Navajo Refinery

Table 1. Analytical Parameters
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Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
Selenium, dissolved	200.8	0.05	0.001	1-125 mL HDPE (F+S)	HNO ₃	128 days
Silver, dissolved	200.7	0.05	0.005	1-125 mL HDPE (F+S)	HNO ₃	128 days
Thallium, dissolved	200.8	0.002	0.00025	1-125 mL HDPE (F+S)	HNO ₃	128 days
Uranium, dissolved	200.8	0.03	0.0005	1-125 mL HDPE (F+S)	HNO ₃	128 days
Mercury, total	245.1	0.002	0.0002	1-250 mL HDPE	HNO ₃	28 days
Bromide	300	—	0.1	1-125 mL HDPE	Unpreserved	28 days
Chloride	300	250	0.5	1-125 mL HDPE	Unpreserved	28 days
Fluoride	300	1.6	0.1	1-250 mL HDPE	Unpreserved	28 days
Nitrate	300	10	0.1	1-125 mL HDPE	Unpreserved	48 hours
Nitrite	300	1	0.1	1-125 mL HDPE	Unpreserved	48 hours
Sulfate	300	600	0.5	1-125 mL HDPE	Unpreserved	28 days
Perchlorate (CAS 14797-73-0)	331.0	—	0.00005	1-125 mL plastic	Unpreserved	28 days
Cyanide	335.4	0.2	0.01	1-500 mL plastic amber	NaOH	14 days
1,2-Dibromoethane (ethylene dibromide, EDB) (CAS 106-93-4)	504.1	0.00005	0.00001	2-40 mL VOAs	Na ₂ S ₂ O ₃	14 days
Perfluorohexane sulfonic acid (PHHxS) (CAS 355-46-4)	537	—	0.00001	2-250 mL HDPE	Unpreserved	14 days
Perfluorooctane sulfonate (PFOS) (CAS 1763-23-1)	537	—	0.00001	2-250 mL HDPE	Unpreserved	14 days
Perfluorooctanoic acid (PFOA) (CAS 335-67-1)	537	—	0.00001	2-250 mL HDPE	Unpreserved	14 days
Aldrin (CAS 309-00-2)	8081	—	0.0001	6-1 L glass amber	Unpreserved	7 days

Notes are provided at the end of the table.

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Work Plan for Monitor Well Installation and Sampling
HF Sinclair Navajo Refinery

Table 1. Analytical Parameters
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Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
DDT (CAS 50-29-3)	8081	—	0.0001	6-1 L glass amber	Unpreserved	7 days
Dieldrin (CAS 60-57-1)	8081	—	0.0001	6-1 L glass amber	Unpreserved	7 days
Polychlorinated biphenyls (PCBs) (CAS 1336-36-3)	8082	0.0005	0.00025	6-1 L glass amber	Unpreserved	40 days
2,4,5-TP (Silvex)	8151	—	0.0001	1-1 L glass amber	Unpreserved	14 days
2,4-D (2,4-Dichlorophenoxyacetic acid)	8151	—	0.0001	1-1 L glass amber	Unpreserved	14 days
Monochlorobenzene (CAS 108-90-7)	8260	—	0.0001	6-1 L glass amber	Unpreserved	14 days
Thiolane 1,1 dioxide (sulfolane) (CAS 126-33-0)	8270	—	Narrative only	6-1 L glass amber	Unpreserved	7 days
2,4,6-Trinitrotoluene (TNT) (CAS 118-96-7)	8330	—	0.00338	6-1 L glass amber	Unpreserved	14 days
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) (CAS 121-82-4)	8330	—	0.00338	6-1 L glass amber	Unpreserved	14 days
Octrahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) (CAS 2691-41-0)	8330	—	0.00338	6-1 L glass amber	Unpreserved	14 days
Alkalinity, total	2320B	—	20	1-250 mL HDPE	Unpreserved	14 days
Bicarbonate	2320B	—	20	1-250 mL HDPE	Unpreserved	14 days
Carbonate	2320B	—	2	1-250 mL HDPE	Unpreserved	14 days
Specific conductance (µmhos/cm)	2510B	—	10 µmhos/cm	1-125 mL HDPE	Unpreserved	28 days
Total dissolved solids	2540C	—	20	1-1 L HDPE	Unpreserved	7 days
Cadmium, dissolved	6010B	—	0.002	1-125 mL plastic (F&S)	HNO ₃	180 days
Chlordane	8081A	—	0.001	2-40 mL VOAs	HCl	7 days
Endosulfan (CAS 115-29-7)	8081A	—	0.0001	2-40 mL VOAs	HCl	7 days

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Table 1. Analytical Parameters
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Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
Endrin	8081A	—	0.0001	4-40 mL VOAs	HCl	7 days
Heptachlor (and its epoxide)	8081A	—	0.0001	2-40 mL VOAs	Na ₂ S ₂ O ₃	7 days
Hexachlorocyclohexane (HCH, lindane): alpha-HCH; beta-HCH; gamma-HCH; and, technical-HCH	8081A	—	0.0001	2-40 mL VOAs	Na ₂ S ₂ O ₃	7 days
Lindane	8081A	—	0.0001	2-40 mL VOAs	Na ₂ S ₂ O ₃	7 days
Methoxychlor	8081A	—	0.0001	2-40 mL VOAs	Na ₂ S ₂ O ₃	7 days
Toxaphene	8081A	—	0.001	2-40 mL VOAs	Na ₂ S ₂ O ₃	7 days
1,1,1-Trichloroethane (TCA)	8260B	0.2	0.001	3-40 mL VOAs	HCl	14 days
1,1,2,2-Tetrachloroethane	8260B	0.01	0.001	3-40 mL VOAs	HCl	14 days
1,1,2-Trichloroethane	8260B	0.005	0.001	3-40 mL VOAs	HCl	14 days
1,1-Dichloroethane	8260B	0.025	0.001	3-40 mL VOAs	HCl	14 days
1,1-Dichloroethene (1,1-DCE) (CAS 75-35-4)	8260B	0.007	0.001	3-40 mL VOAs	HCl	14 days
1,2,4-Trichlorobenzene (CAS 120-82-1)	8260B	0.07	0.001	3-40 mL VOAs	HCl	14 days
1,2,4-Trichlorophenol	8260B	—	Narrative only	3-40 mL VOAs	HCl	14 days
1,2-Dichlorobenzene	8260B	0.6	0.001	3-40 mL VOAs	HCl	14 days
1,2-Dichloroethane (EDC)	8260B	0.005	0.001	3-40 mL VOAs	HCl	14 days
1,2-Dichloropropane	8260B	0.005	0.001	3-40 mL VOAs	HCl	14 days
1,4-Dichlorobenzene	8260B	0.075	0.001	3-40 mL VOAs	HCl	14 days
1-Methylnaphthalene (CAS 90-12-0)	8260B	—	0.004	3-40 mL VOAs	HCl	14 days
2-Methylnaphthalene (CAS 91-57-6)	8260B	—	0.004	3-40 mL VOAs	HCl	14 days

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
Acrolein (CAS 107-02-8)	8260B	—	0.01	3-40 mL VOAs	HCl	14 days
Acrylonitrile (CAS 107-13-1)	8260B	—	0.01	3-40 mL VOAs	HCl	14 days
Benzene	8260B	0.005	0.001	3-40 mL VOAs	HCl	14 days
Bromodichloromethane (CAS 75-27-4)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Bromomethane (CAS 74-83-9)	8260B	—	0.002	3-40 mL VOAs	HCl	14 days
Carbon tetrachloride	8260B	0.005	0.001	3-40 mL VOAs	HCl	14 days
Chlorobenzene	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Chloroform	8260B	0.1	0.001	3-40 mL VOAs	HCl	14 days
Chloromethane (CAS 74-87-3)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Chloroethene (vinyl chloride) (CAS 75-01-4)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
cis-1,2-dichloroethene	8260B	0.07	0.001	3-40 mL VOAs	HCl	14 days
Dichlorodifluoromethane (fluorocarbon-12) (CAS 75-71-8)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Ethylbenzene	8260B	0.7	0.001	3-40 mL VOAs	HCl	14 days
Methyl ethyl ketone	8260B	—	0.01	3-40 mL VOAs	HCl	14 days
Methyl tertiary-butyl ether (MTBE)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Methylene chloride	8260B	0.005	0.001	3-40 mL VOAs	HCl	14 days
Naphthalene (CAS 91-20-3)	8260B	—	0.002	3-40 mL VOAs	HCl	14 days
Styrene	8260B	0.1	0.001	3-40 mL VOAs	HCl	14 days
Tetrachloroethene (perchloroethylene, PCE) (CAS 127-18-4)	8260B	0.005	0.001	3-40 mL VOAs	HCl	14 days

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Work Plan for Monitor Well Installation and Sampling
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Table 1. Analytical Parameters
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Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
Tetrachloromethane (carbon tetrachloride) (CAS 56-23-5)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Toluene	8260B	1	0.001	3-40 mL VOAs	HCl	14 days
trans-1,2-Dichloroethene	8260B	0.1	0.001	3-40 mL VOAs	HCl	14 days
Tribromomethane (bromoform) (CAS 75-25-2)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Trichloroethylene (TCE)	8260B	0.005	0.001	3-40 mL VOAs	HCl	14 days
Trichlorofluoromethane (fluorocarbon-11) (CAS 75-69-4)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Trichloromethane (chloroform) (CAS 67-66-3)	8260B	—	0.001	3-40 mL VOAs	HCl	14 days
Vinyl chloride	8260B	0.002	0.001	3-40 mL VOAs	HCl	14 days
Xylenes (total) including m-xylene, o-xylene and p-xylene	8260B	0.62	0.002	3-40 mL VOAs	HCl	14 days
1,4-Dioxane (CAS 123-91-1)	8270C	—	0.001	6-1 L glass amber	Unpreserved	14 days
2,4,5-Trichlorophenol	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
2,4,6-Trichlorophenol	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
2,4-Dichlorophenol (CAS 120-83-2)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
2,4-Dinitro-o-cresol (CAS 534-52-1)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
2,4-Dinitrotoluene	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
2,6-Dinitrotoluene (2,6-DNT) (CAS 606-20-2)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
3,4-Benzofluoranthene (CAS 205-99-2)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Anthracene (CAS 120-12-7)	8270C	—	0.0003	6-1 L glass amber	Unpreserved	14 days

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
Atrazine	8270C	0.003	0.0015	6-1 L glass amber	Unpreserved	14 days
Benzidine (CAS 92-87-5)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Benzo(k)fluoranthene (CAS 207-08-9)	8270C	—	0.0003	6-1 L glass amber	Unpreserved	14 days
Benzo-a-pyrene	8270C	0.0002	0.00014	6-1 L glass amber	Unpreserved	14 days
bis (2-chloroethyl) ether (CAS 111-44-4)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
bis (2-chloroisopropyl) ether (CAS 108-60-1)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
bis (chloromethyl) ether (CAS 542-88-1)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Cresol	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Di-2-ethylhexyl phthalate (DEHP) (CAS 117-81-7)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Dibutyl phthalate (CAS 84-74-2)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
3,3-Dichlorobenzidine (CAS 91-94-1)	8270 C	—	0.0001	6-1 L glass amber	Unpreserved	14 days
Dichloropropenes (CAS 542-75-6)	8270C	—	0.0001	6-1 L glass amber	Unpreserved	14 days
Diethyl phthalate (DEP) (CAS 84-66-2)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Dimethyl phthalate (DMP) (CAS 131-11-3)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Dinitrophenols (CAS 51-28-5)	8270C	—	0.0001	6-1 L glass amber	Unpreserved	14 days
Diphenylhydrazine (CAS 122-66-7)	8270C	—	0.0001	6-1 L glass amber	Unpreserved	14 days
Fluoranthene (CAS 206-44-0)	8270C	—	0.0003	6-1 L glass amber	Unpreserved	14 days
Fluorene (CAS 86-73-7)	8270C	—	0.0003	6-1 L glass amber	Unpreserved	14 days
Hexachlorobenzene (CAS 118-74-1)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Hexachlorobutadiene (CAS 87-68-3)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days

Notes are provided at the end of the table.

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Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
Hexachlorocyclopentadiene (CAS 77-47-4)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Hexachloroethane	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Isophorone (CAS 78-59-1)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
m-Cresol	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Nitrobenzene	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
N-nitrosodibutylamine (CAS 924-16-3)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
N-nitrosodiethylamine (CAS 55-18-5)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
N-nitrosodimethylamine (CAS 62-75-9)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
N-nitrosodiphenylamine (CAS 86-30-6)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
N-nitrosopyrrolidine (CAS 930-55-2)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
o-Cresol	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
PAHs (total naphthalene plus monomethylnaphthalenes)	8270C	0.03	0.0003	6-1 L glass amber	Unpreserved	14 days
p-Cresol	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Pentachlorobenzene (CAS 608-93-5)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Pentachlorophenol	8270C	0.001	0.0003	6-1 L glass amber	Unpreserved	14 days
Phenanthrene (CAS 85-01-8)	8270C	—	0.0003	6-1 L glass amber	Unpreserved	14 days
Phenol (CAS 108-95-2)	8270C	0.005	0.0005	2-1 L glass amber	H ₂ SO ₄	7 days
Polynuclear aromatic hydrocarbons (PAHs)	8270C	—	0.0003	6-1 L glass amber	Unpreserved	14 days
Prometon (CAS 1610-18-0)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days

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Table 1. Analytical Parameters
Page 9 of 9

Parameter	Laboratory Method	Concentration (mg/L ^a)		Bottle	Preservative	Holding Time
		NMAC Standard	Reporting Limit			
Pyrene (CAS 129-00-0)	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
Pyridine	8270C	—	0.0005	6-1 L glass amber	Unpreserved	14 days
1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)	8270E	—	0.0005	6-1 L glass amber	Unpreserved	7 days
Radium-226 and -228 combined (pCi/L)	903.0 and 904.0	5 pCi/L	<5	2-1 L HDPE	HCl	180 days
pH (s.u.)	9040C	6–9	~2–12	1-1 L HDPE	Unpreserved	15 minutes
Cation/anion balance	Calculation	—	NA	—	—	—
Temperature (°C)	Provided with pH	—	—	—	—	—

Source: 20.6.2.3103 NMAC and 20.6.2.7 NMAC "Toxic Parameters"

^a Unless otherwise noted

mg/L = Milligrams per liter

— = Unspecified

µmhos/cm = Micromhos per centimeter

pCi/L = Picocuries per liter

s.u. = Standard units

NA = Not applicable

Appendix A

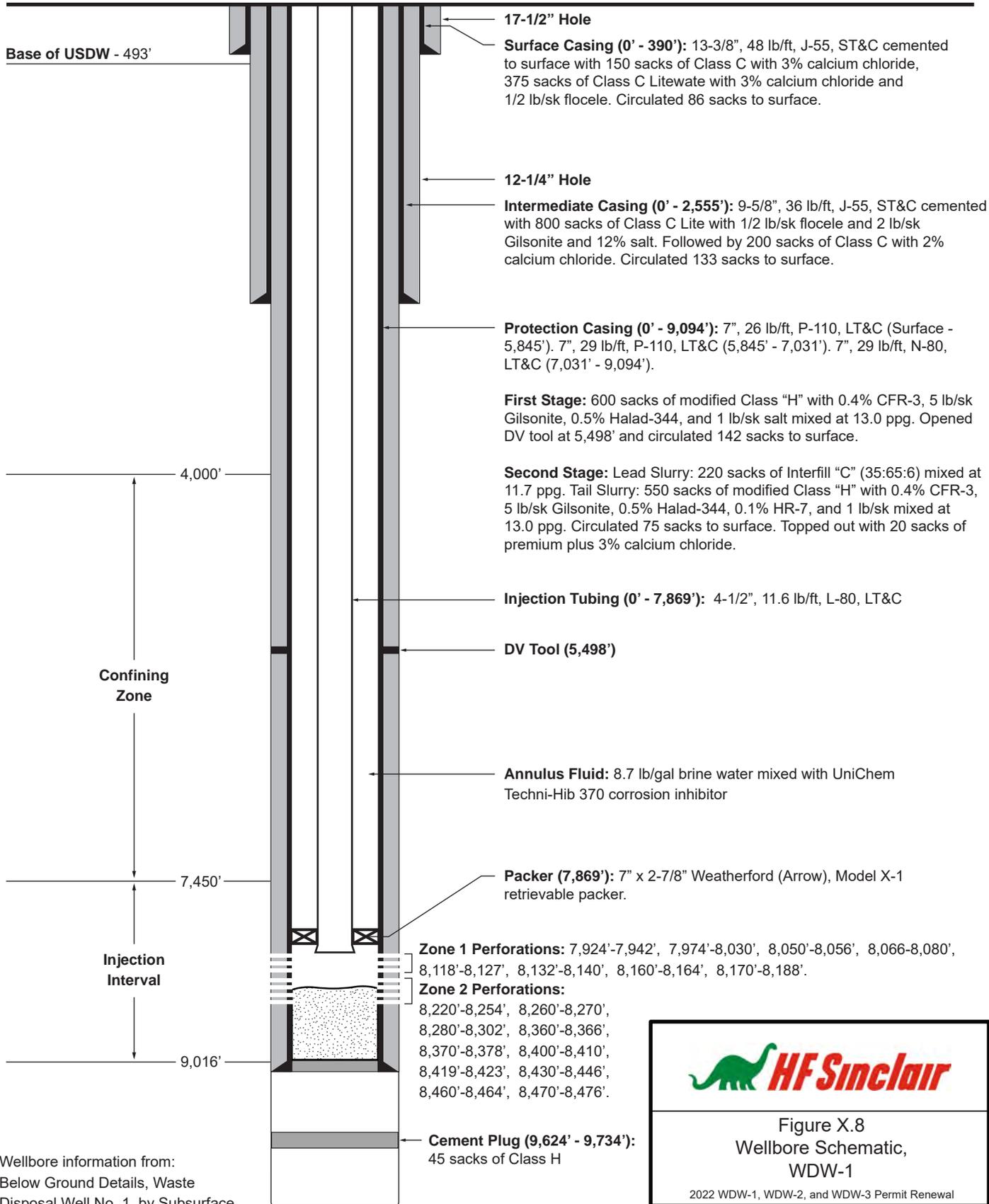
DBS&A SOPs

Appendix B

WDW UIC Well Diagrams

OCD UIC Permit: UICI-008-1
Well API Number: 30-015-27592
Eddy County, New Mexico
Sec. 31, T17S-R28E
Lat. 32.78517° / Long. -104.21376° (NAD 83)

All depths referenced to Kelly Bushing (KB)
elevation 2.5' above ground level.
Ground Level Elevation: +3,678' MSL



Wellbore information from:
Below Ground Details, Waste
Disposal Well No. 1, by Subsurface
Technology, Figure 1, 2001 and
2018 Workover.

NOT TO SCALE

Figure X.8
Wellbore Schematic,
WDW-1

2022 WDW-1, WDW-2, and WDW-3 Permit Renewal

Scale: NTS	Date: July 2022
Fig_X.08_HF_NM_2022_WDW123.pdf	By: WEK Checked: NB

Petrotek
5935 South Zang Street, Suite 200
Littleton, Colorado 80127 USA
303-290-9414
www.petrotek.com

OCD UIC Permit: UICI-008-2
 Well API Number: 30-015-20894
 Eddy County, New Mexico
 Sec. 31, T17S-R27E
 Lat. 32.763772° / Long. -104.238508° (NAD 83)

All depths referenced to Kelly Bushing (KB)
 elevation 13' above ground level.
 Ground Level Elevation: +3,610' MSL

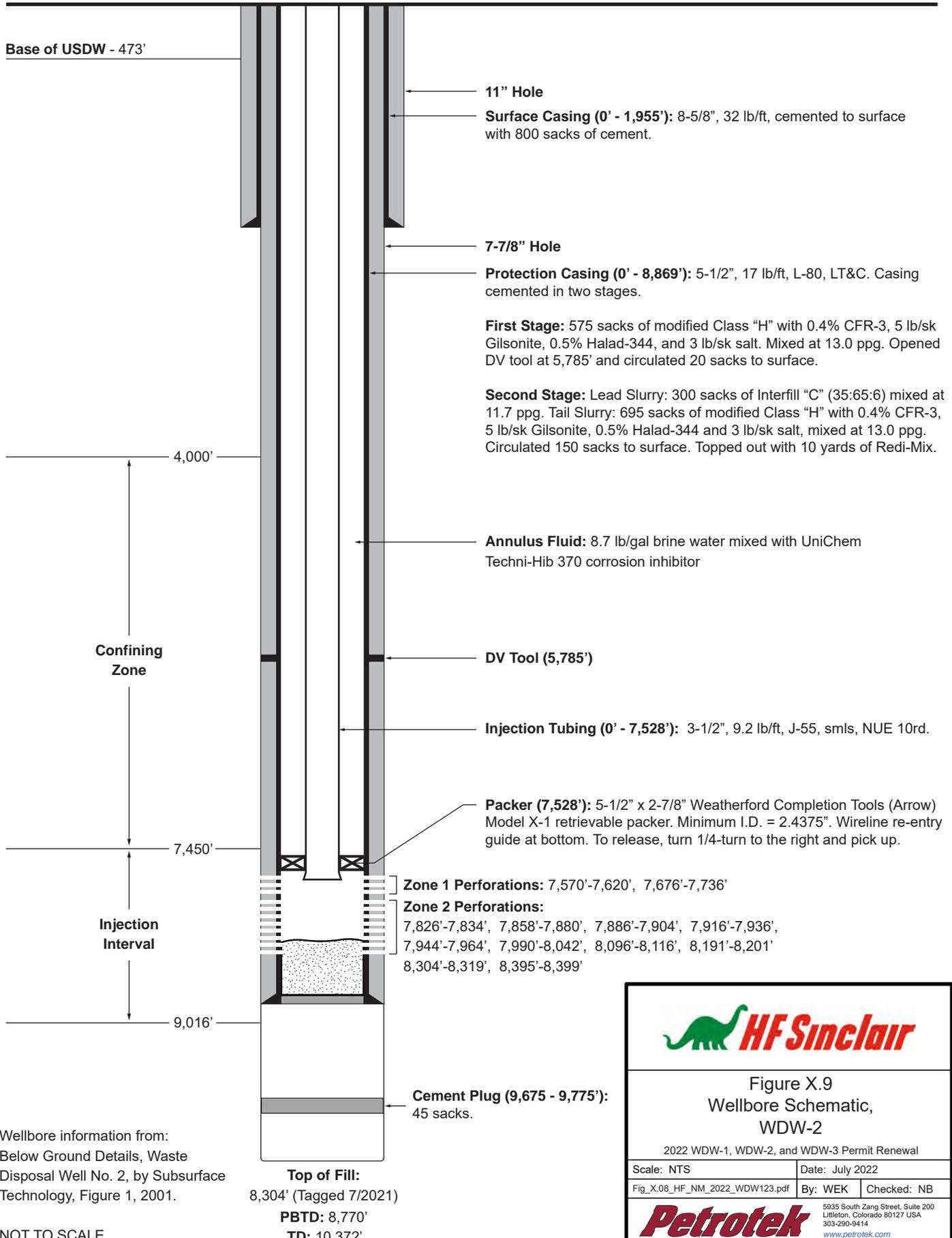


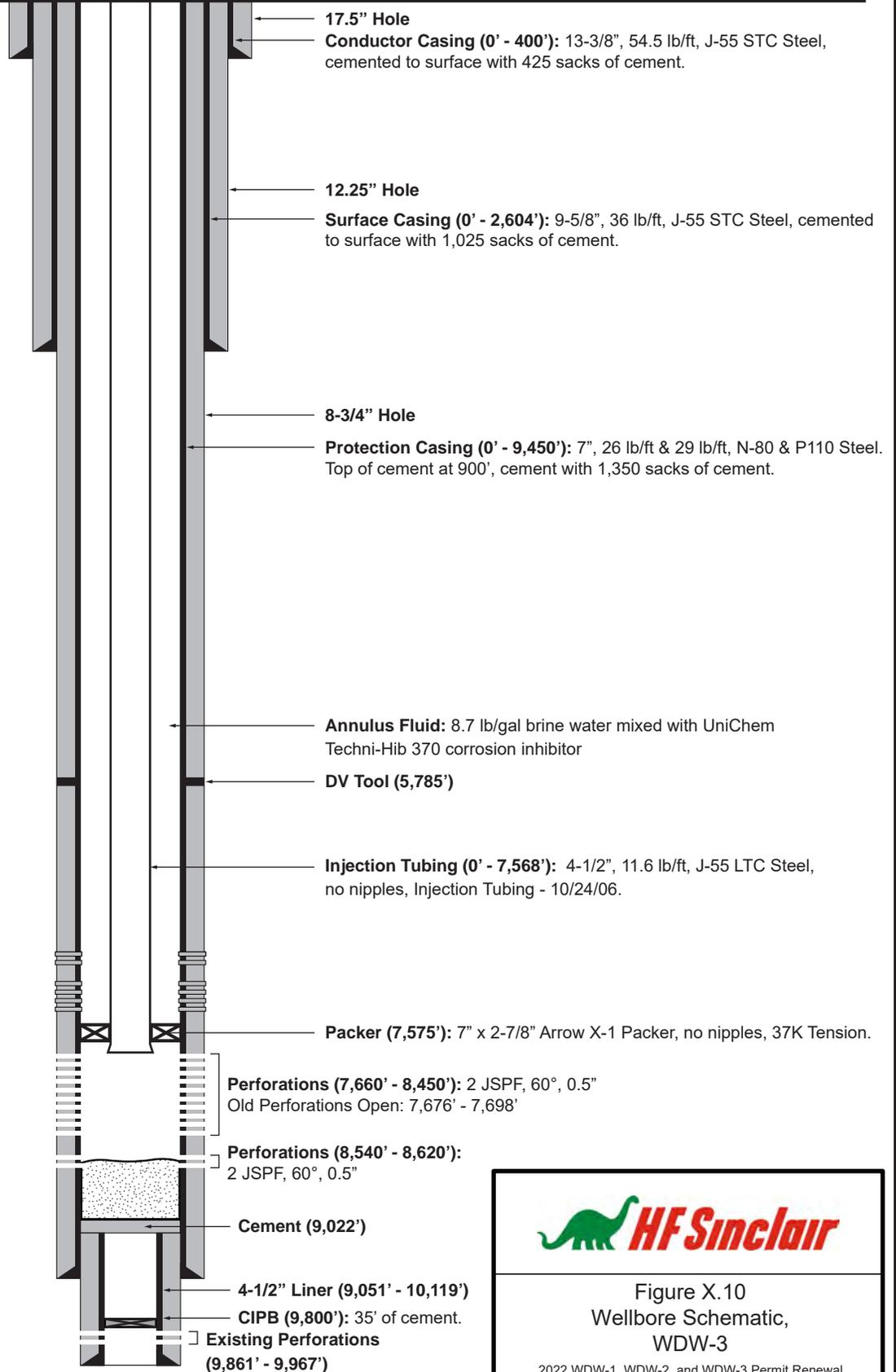

Figure X.9
 Wellbore Schematic,
 WDW-2

2022 WDW-1, WDW-2, and WDW-3 Permit Renewal

Scale: NTS	Date: July 2022
Fig_X.08_HF_NM_2022_WDW123.pdf	By: WEK Checked: NB

Petrotek 5935 South Zang Street, Suite 200
 Littleton, Colorado 80127 USA
 303-290-9414
 www.petrotek.com

OCD UIC Permit: UICI-008-3
 Well API Number: 30-015-26575
 Eddy County, New Mexico
 Sec. 31, T18S-R27E
 Lat. 32.771186° / Long. -104.233306° (NAD 83)



Wellbore information from:
 Gaines Well #3 Navajo
 Refining schematic by
 Subsurface Technology, 2009.

NOT TO SCALE

Top of Fill:
 8,604' (Tagged 8/2021)
PBTD: 9,022'
TD: 10,119'



Figure X.10
 Wellbore Schematic,
 WDW-3

2022 WDW-1, WDW-2, and WDW-3 Permit Renewal

Scale: NTS	Date: July 2022
Fig_X.10_HF_NM_2022_WDW123.pdf	By: WEK Checked: NB



5935 South Zang Street, Suite 200
 Littleton, Colorado 80127 USA
 303-290-9414
www.petrotek.com

OCD UIC Permit: UICI-008-4
Well API Number: 30-015-44677
Eddy County, New Mexico
Sec. 23, T17S-R27E
Lat. 32.815970° / Long. -104.250174° (NAD 83)

All depths referenced to Kelly Bushing (KB)
elevation 20' above ground level.
Ground Level Elevation: +3,563'

Base of USDW: +/- 500'

Conductor Casing (0' - 80'): 20", 129.33 lb/ft 0.625" wall, API 5LX-56, plain-end, beveled conductor, cemented to surface with 15 yards redi-mix in a 24" hole.

17-1/2" Hole

Surface Casing (0' - 1,680'): 13-3/8", 54.5 lb/ft, K-55, ST&C, cemented to surface with 3,225 sacks of cement.

12-1/4" Hole

Protection Casing (0' - 10,327'): 9-5/8", 47 lb/ft, N-80, LT&C, cemented to surface.

Annulus Fluid: Injection tubing and protection casing annulus filled with 263 bbl of brine water containing a corrosion inhibitor, a bactericide and an oxygen scavenger.

DV Tool (5,800'): 9-5/8"

Injection Tubing (0' - 10,265'): 7", 26 lb/ft, K-55, LT&C.

Top of Confining Zone: 9,805'

Top of Injection Zone: 10,220'

Base of Injection Zone: ~10,885'

TD: 10,700'

Packer (10,265'): 7" x 9-5/8"

Open Hole: 8-1/2" to 10,700'

Wellbore information from: Figure 8.2, HollyFrontier Navajo Refining LLC, Artesia, New Mexico, As Built Below Ground Well Schematic by WSP and information found in the 2017 WDW-4 Permit.



Figure X.6
Wellbore Schematic,
WDW No. 4

2022 WDW-4 Permit Renewal

Scale: NTS Date: July 2022
Fig_X.06_HF_NM_2022_WDW04.pdf By: WEK Checked: NB

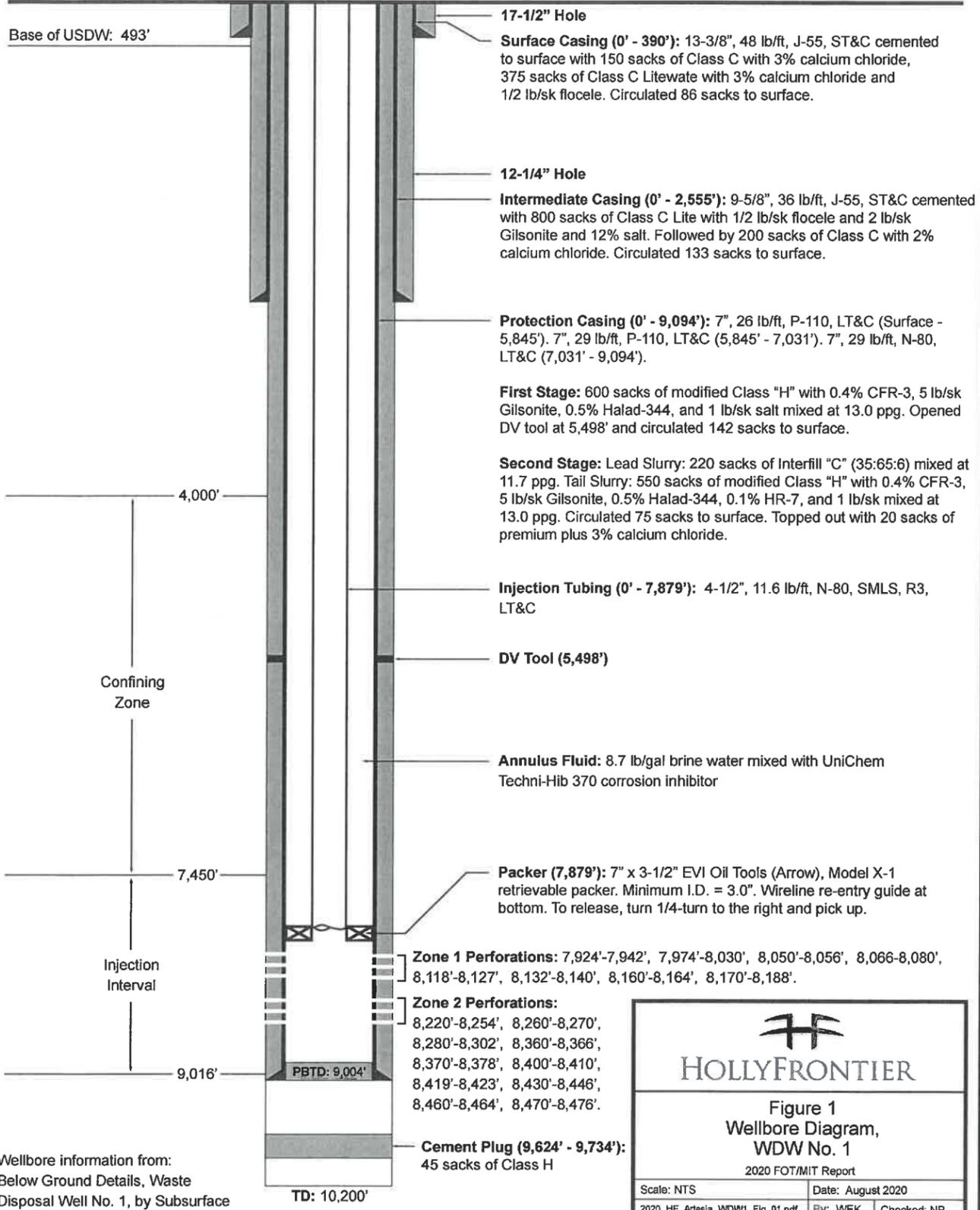


5935 South Zang Street, Suite 200
Littleton, Colorado 80127 USA
303-290-9414
www.petrotek.com

NOT TO SCALE

OCD UIC Permit: UICI-008-1
Well API Number: 30-015-27592
Sec. 31, T17S, R28E - Eddy County, New Mexico
SHL: Lat. 32.78517°, Long. -104.21376°

All depths are referenced to the Kelly bushing elevation 12.5' above ground level. Ground level elevation is 3,678' above mean sea level.



Wellbore information from:
Below Ground Details, Waste Disposal Well No. 1, by Subsurface Technology, Figure 1, 2001.

NOT TO SCALE

HOLLYFRONTIER

Figure 1
Wellbore Diagram,
WDW No. 1
2020 FOT/MIT Report

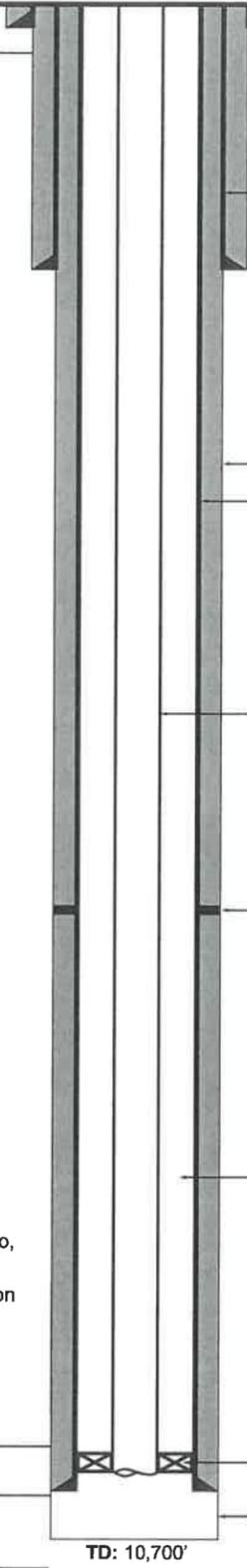
Scale: NTS	Date: August 2020
2020_HF_Artesia_WDW1_Fig_01.pdf	By: WEK Checked: NB

Petrotek
 5935 South Zang Street, Suite 200
 Littleton, Colorado 80127 USA
 303-250-9414
 www.petrotek.com

OCD UIC Permit: UICI-008-4
Well API Number: 30-015-44677
Sec. 23, T17S, R27E - Eddy County, New Mexico
SHL: Lat. 32.81581°, Long. -104.25003°

All depths are referenced to the Kelly bushing elevation 20' above ground level. Ground level elevation is 3,563' above mean sea level.

Base of USDW: +/- 500'



24" Hole
Conductor Pipe (0' - 80'): 20", 129.33 lb/ft 0.625" wall, API 5LX-56, plain-end, beveled conductor, cemented to surface with redi-mix.

17-1/2" Hole
Surface Casing (0' - 1,680'): 13-3/8", 54.5 lb/ft, K-55, ST&C, cemented to surface.

12-1/4" Hole
Protection Casing (0' - 10,327'): 9-5/8", 47 lb/ft, N-80, LT&C, cemented to surface.

Injection Tubing (0' - 10,265'): 7", 26 lb/ft, K-55, LT&C

DV Tool (5,800'): 9-5/8"

Annulus Fluid: Injection tubing and protection casing annulus filled with 263 bbl of brine water containing a corrosion inhibitor, a bactericide and an oxygen scavenger.

Packer (10,265'): 7" x 9-5/8"

Open Hole: 8-1/2" to 10,700'

TD: 10,700'

Wellbore information from:
Figure 8.2, HollyFrontier Navajo Refining LLC, Artesia, New Mexico, As Built Below Ground Well Schematic by WSP and information found in the 2017 WDW-4 Permit.

Top of Confining Zone ~9,900'

Top of Injection Zone ~10,400'

Base of Injection Zone ~10,900'

NOT TO SCALE


HOLLYFRONTIER

Figure 1
Wellbore Diagram,
WDW No. 4
2020 FOT/MIT Report

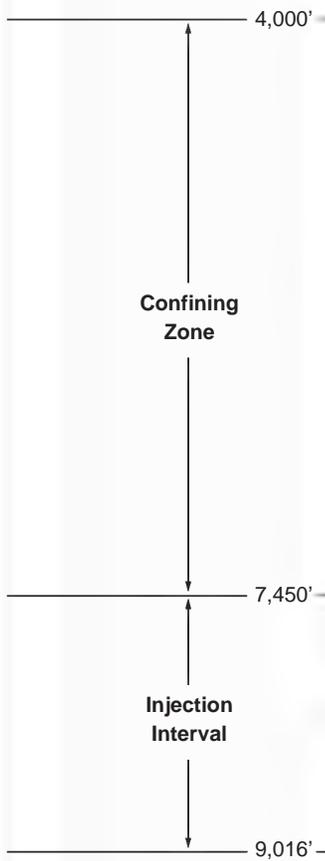
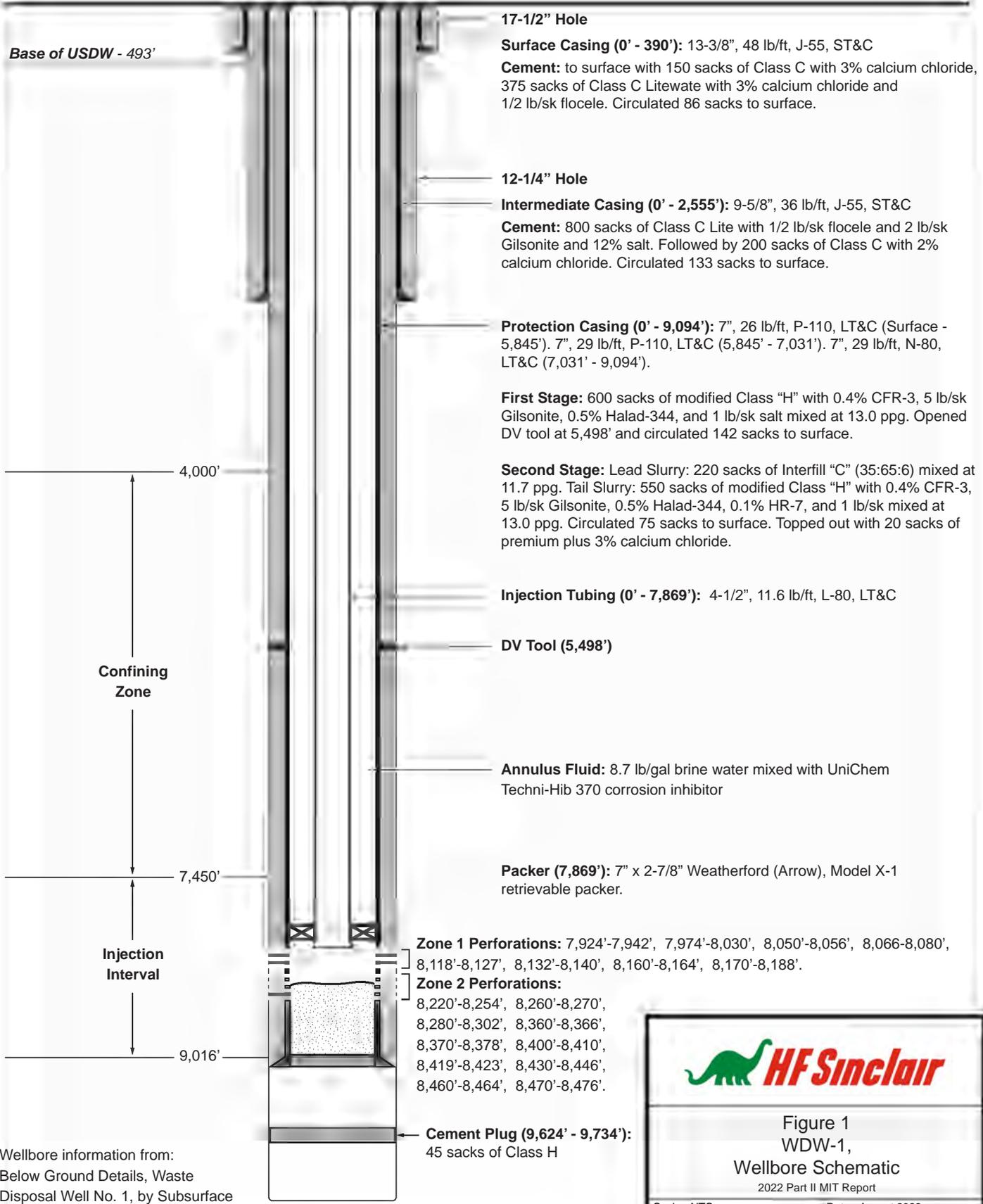
Scale: NTS	Date: September 2020
2020_HF_Artesia_WDW1_Fig_04.pdf	By: WEK Checked: NB

Petrotek
5635 South Zang Street, Suite 200
Littleton, Colorado 80127 USA
303-290-9414
www.petrotek.com

OCD UIC Permit: UICI-008-1
 Well API Number: 30-015-27592
 Eddy County, New Mexico
 Sec. 31, T17S-R28E
 Lat. 32.78517° / Long. -104.21376° (NAD 83)

Note: All depths referenced to Kelly Bushing (KB)
 elevation 2.5' above ground level.
 Ground Level Elevation: +3,678' MSL

Base of USDW - 493'



Wellbore information from:
 Below Ground Details, Waste
 Disposal Well No. 1, by Subsurface
 Technology, Figure 1, 2001 and
 2018 Workover.

Top of Fill:
 8,400' (Tagged 8/2022)
PBTD: 9,004'
TD: 10,200'

NOT TO SCALE

Figure 1
 WDW-1,
 Wellbore Schematic
 2022 Part II MIT Report

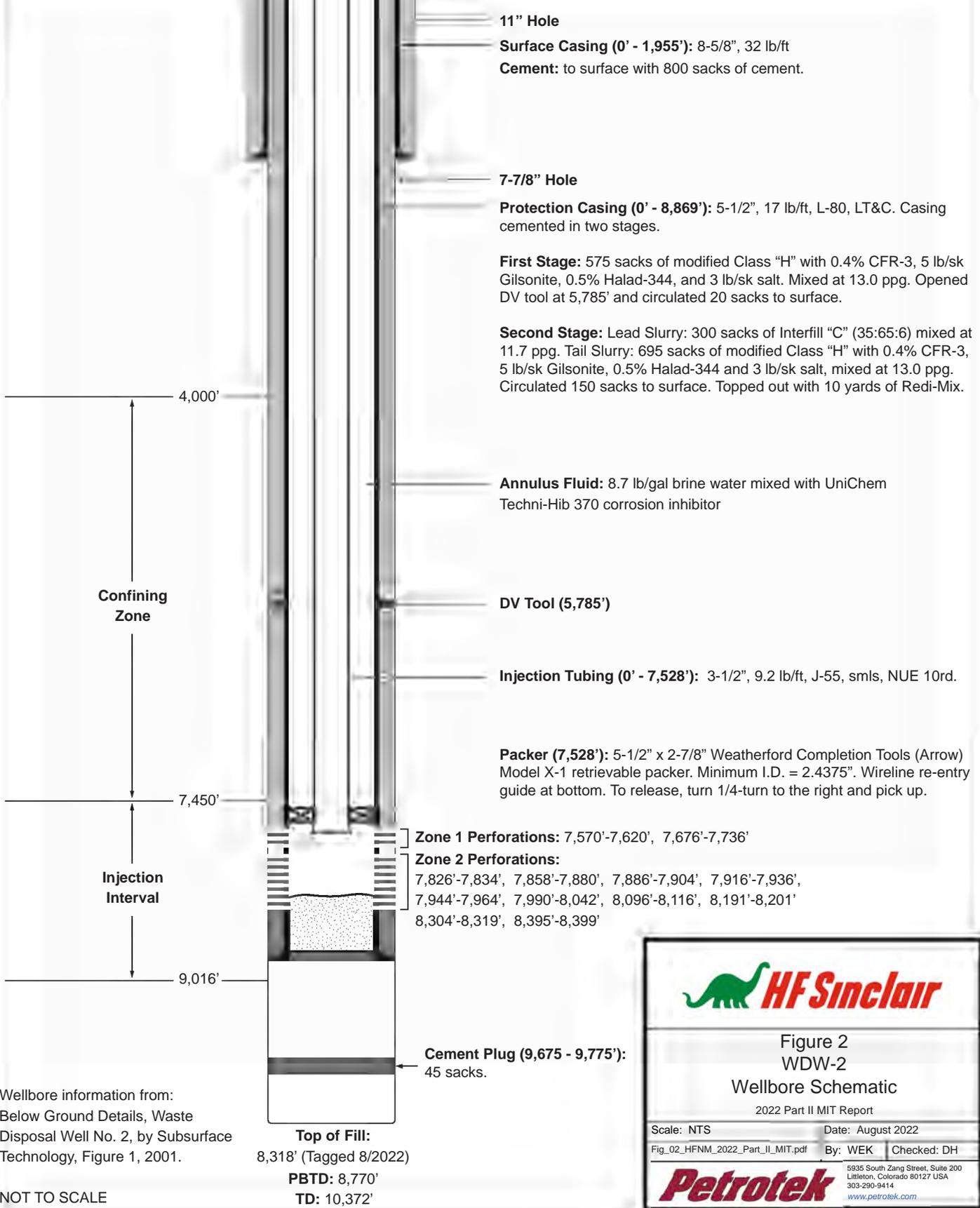
Scale: NTS Date: August 2022
 Fig_01_HFNM_2022_Part_II_MIT.pdf By: WEK Checked: DH

Petrotek
 5935 South Zang Street, Suite 200
 Littleton, Colorado 80127 USA
 303-290-9414
 www.petrotek.com

OCD UIC Permit: UICI-008-2
Well API Number: 30-015-20894
Eddy County, New Mexico
Sec. 31, T17S-R27E
Lat. 32.763772° / Long. -104.238508° (NAD 83)

Note: All depths referenced to Kelly Bushing (KB)
elevation 13' above ground level.
Ground Level Elevation: +3,610' MSL

Base of USDW - 473'



Wellbore information from:
Below Ground Details, Waste
Disposal Well No. 2, by Subsurface
Technology, Figure 1, 2001.

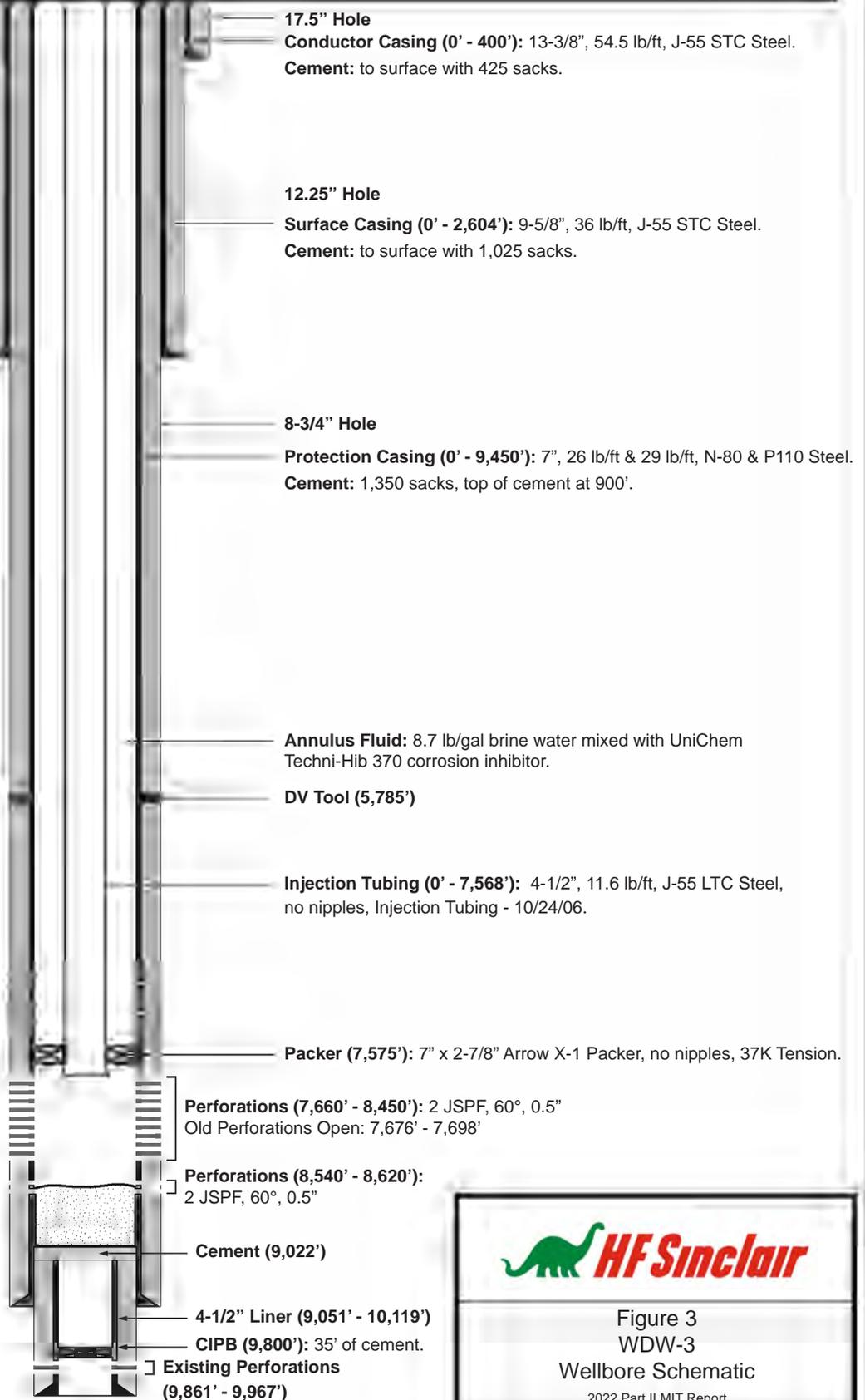
NOT TO SCALE

Figure 2
WDW-2
Wellbore Schematic
2022 Part II MIT Report

Scale: NTS	Date: August 2022
Fig_02_HFNM_2022_Part_II_MIT.pdf	By: WEK Checked: DH

Petrotek
5935 South Zang Street, Suite 200
Littleton, Colorado 80127 USA
303-290-9414
www.petrotek.com

OCD UIC Permit: UICI-008-3
Well API Number: 30-015-26575
Eddy County, New Mexico
Sec. 31, T18S-R27E
Lat. 32.771186° / Long. -104.233306° (NAD 83)



Wellbore information from:
Gaines Well #3 Navajo
Refining schematic by
Subsurface Technology, 2009.

NOT TO SCALE

Top of Fill:
8,615' (Tagged 8/2022)
PBTD: 9,022'
TD: 10,119'

Figure 3
WDW-3
Wellbore Schematic
2022 Part II MIT Report

Scale: NTS	Date: August 2022
Fig_03_HFNM_2022_Part_II_MIT.pdf	By: WEK Checked: DH

Petrotek
5935 South Zang Street, Suite 200
Littleton, Colorado 80127 USA
303-290-9414
www.petrotek.com

Appendix C
Well Completion
Report and Log for
WDW-1

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.

30-015-27592

5. Indicate Type of Lease

STATE

FEE

6. State Oil & Gas Lease No.

B-2071-28

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL GAS WELL DRY OTHER _____
b. Type of Completion:
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR OTHER _____

7. Lease Name or Unit Agreement Name

Chalk Bluff "31" State

2. Name of Operator
Newbourne Oil Company

8. Well No.

1

3. Address of Operator
P.O. Box 5270 Hobbs, New Mexico 88241

9. Pool name or Wildcat

Illinois Camp Morrow, North

4. Well Location
Unit Letter 0 : 2310 Feet From The East Line and 660 Feet From The South Line
Section 31 Township 17S Range 28E NMPM Eddy County

10. Date Spudded 08/04/93 11. Date T.D. Reached 09/09/93 12. Date Compl. (Ready to Prod.) ---- 13. Elevations (DF& RKB, RT, GR, etc.) 3678' GR 14. Elev. Casinghead ----

15. Total Depth 10,200' 16. Plug Back T.D. ---- 17. If Multiple Compl. How Many Zones? ---- 18. Intervals Drilled By Rotary Tools All Cable Tools ----

19. Producing Interval(s), of this completion - Top, Bottom, Name ----- 20. Was Directional Survey Made No

21. Type Electric and Other Logs Run Dual laterlog, Density Neutron, Sonic (Already Submitted) 22. Was Well Cored No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	390'	17-1/2"	375 sks. "C" Lite + 150 sks. "C" Neet	None
9-5/8"	36#	2555'	12-1/4"	800 sks. "C" Lite + 200 sks. "C" Neet	None

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
N/A		

28. PRODUCTION							
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) _____ Test Witnessed By _____

30. List Attachments
Deviation Report

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief
Signature Bill Pierce Printed Name Bill Pierce Title Dir. Supt. Date 09/23/93

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____ 8782'	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____ 9016'	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____ 9573'	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 506'	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____ 596'	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 1176'	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____ 1462'	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____ 1958'	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____ 3386'	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____ 5398'	T. Morrow _____ 10016'	T. Wingate _____	T. _____
T. Wolfcamp _____ 6593'	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____ 7816'	T. _____	T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
 No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0'	400'	400'	Surface rock, Anhydrite				
400'	6900'	6500'	Dolomite, Chert, Sandstone, Shale				
6900'	7800'	900'	Limestone, Shale, Chert				
7800'	8500'	700'	Dolomite, Shale				
8500'	9600'	1100'	Limestone, Shale				
9600'	10200'	600'	Limestone, Sandstone, Chert, & Shale				

Appendix D

Approved Permits

BLM



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
NMNM-6852

May 4, 2023

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: WDW-2
Section 12, T18S-R27E
30-015-20894
Eddy County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned is required to install one monitor well by NMOCD for regional groundwater quality evaluation related to the underground injection control well mentioned above. Four bollards and a 3x3 well pad will also be installed to protect the monitor well. Monitor well shall be set between 70-150 ft below ground surface using sonic drilling rig and completed with 4" PVC pipe. Monitor well shall be installed close to the UIC well (no greater than 70ft away) Approximately 2-4 weeks for construction then ongoing access for quarterly monitor well sampling. Up to 150ft PVC well casing with silica sand, bentonite grout, Portland type 2 cement, a steel well riser, concrete and bollards will be installed. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish installation of the monitor well.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN

Digitally signed by CRISHA MORGAN
Date: 2023.05.04 09:59:01 -06'00'

Crisha A. Morgan
Certified Environmental Protection Specialist



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
NMNM-0557371

May 4, 2023

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: WDW-3
Section 1, T18S-R27E
30-015-26575
Eddy County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned is required to install one monitor well by NMOCD for regional groundwater quality evaluation related to the underground injection control well mentioned above. Four bollards and a 3x3 well pad will also be installed to protect the monitor well. Monitor well shall be set between 70-150 ft below ground surface using sonic drilling rig and completed with 4" PVC pipe. Monitor well shall be installed close to the UIC well (no greater than 70ft away) Approximately 2-4 weeks for construction then ongoing access for quarterly monitor well sampling. Up to 150ft PVC well casing with silica sand, bentonite grout, Portland type 2 cement, a steel well riser, concrete and bollards will be installed. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish installation of the monitor well.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN

Digitally signed by CRISHA
MORGAN
Date: 2023.05.04 10:02:29 -06'00'

Crisha A. Morgan
Certified Environmental Protection Specialist



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
NMNM-025527A

May 4, 2023

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: WDW-4
Section 23, T17S-R27E
30-015-44677
Eddy County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned is required to install one monitor well by NMOCD for regional groundwater quality evaluation related to the underground injection control well mentioned above. Four bollards and a 3x3 well pad will also be installed to protect the monitor well. Monitor well shall be set between 70-150 ft below ground surface using sonic drilling rig and completed with 4" PVC pipe. Monitor well shall be installed close to the UIC well (no greater than 70ft away) Approximately 2-4 weeks for construction then ongoing access for quarterly monitor well sampling. Up to 150ft PVC well casing with silica sand, bentonite grout, Portland type 2 cement, a steel well riser, concrete and bollards will be installed. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish installation of the monitor well.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN Digitally signed by CRISHA MORGAN
Date: 2023.05.04 10:05:37 -06'00'

Crisha A. Morgan
Certified Environmental Protection Specialist

Form 2800-14
(August 1985)

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Right-Of-Way Grant
Serial Number: NM-102335A
Project Name: WDW 2

Issuing Office
Carlsbad Field Office

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of Oct. 21, 1976 (90 Sta. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

a. By this instrument, the holder:

HF Sinclair Navajo Refining LLC
501 E Main
Artesia, NM 88210



receives a right to construct, operate, maintain, and terminate a monitor well on existing approved pad across public lands in Eddy County, New Mexico described as follows:

T. 18 S., R. 27 E., NMPM
sec. 12: SW¼NW¼.

b. The right-of-way or permit area granted herein is adding a monitoring well.

c. This instrument shall terminate on 12-31-2029 unless prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.

e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2880.

b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.

c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter, not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.

d. The stipulations, plans, maps, or designs set forth in Exhibit A and B (map), attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.

e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.

f. The holder shall perform all operations in a good and workman like manner so as to ensure protection of the environment and the health and safety of the public.

g. In the event that the public land underlying the right-of-way (ROW) encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the right-of-way, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part [2800][2880], including any rights to have the holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the right-of-way, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

IN WITNESS THEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

Trevin Mh

(Signature of Holder)

VP of ops & Retiree Mgr

(Title)

11-16-23

(Date)

Carol Mott

(Signature of Authorized Officer)

Rov Field Manager

(Title)

NOV 27 2023

(Effective Date of Grant)

OFFICIAL FILE COPY

W H Sallani
5/21/99



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
P. O. Box 1778
Carlsbad, New Mexico 88221-1778



Angie Lara
5/21/99

IN REPLY REFER TO:
2800 (080)
NM-102335

MAY 21 1999

Navajo Refining Company
Right-of-Way Department
P.O. Box 159
Artesia, NM 88211-0159

RE: Right-of-Way
NM-102335

On April 16, 1999, you filed a right-of-way application, for a 400' x 400' well pad for re-entry operations for the Chukka Fed. Well #2. Rental for the right-of-way is \$300.00 annually. Rental for the period from May 21, 1999 to December 31, 1999 is \$174.99.

Before the grant can be issued, your authorized officer must execute page two of both copies of the grant and return each, with enclosures, to this office for signature by the BLM authorized officer.

Please return the signed copies, including rental in the amount of \$174.99 at your earliest convenience. Failure to do so could result in the denial of your right-of-way application. If you have any questions, please direct them to Hans Sallani at the above address or telephone (505) 234-5947.

Sincerely,

/s/ Angie Lara

Angie Lara
Acting Field Manager
Carlsbad Field Office

Enclosure

FORM 2800-14
(August 1985)

RECEIVED

Issuing Office
Carlsbad Field Office

1999 MAY 27 A 10 01
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY PERMIT/TEMPORARY USE PERMIT
CARLSBAD RESOURCE AREA
SERIAL NUMBER: NM NM-102335

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761).
2. Nature of Interest:
 - a. By this instrument, the holder:

Navajo Refining Company
P.O. Box 159
Artesia, NM 88211-0159

receives a right to construct, operate, maintain, and terminate a right-of-way for a 400' x 400' well pad and a new well head for re-entry operations, on Federal lands described as follows:

T. 18 S., R. 27 E., NMPM
Sec.12, SW $\frac{1}{4}$ NW $\frac{1}{4}$.

The lands described above contain a total length of NA miles.
 - b. The right-of-way or permit area granted herein is NA feet wide, NA feet long and contains NA acres of land, more or less. If a site type facility, the facility contains 3.673 acres (400' x 400').
 - c. This instrument shall terminate on May 27, 2029, 30 years from the effective date of this grant unless prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.
 - d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.
 - e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.
3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.
4. Terms and Conditions:
 - a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part

2800.

- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4) (d) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibits A, B, and C, dated April 16, 1999, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

X 
 (Signature of Holder)
 X VP ENGR
 (Title)
 X 5-26-99
 (Date)


 (Signature of Authorized Officer)
 Acting Manager, Carlsbad Field Office
 (Title)
 MAY 27 1999
 (Effective Date of Grant)

EXHIBIT A
(April 16, 1999)

BLM Serial Number: NM-102335
Company Reference: Chukka Fed. Well #2

STANDARD STIPULATIONS FOR OIL AND GAS RELATED SITES
IN THE CARLSBAD FIELD OFFICE AREA, BLM

The Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 *et. seq.*, from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 *et. seq.*, and from other applicable environmental statutes.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the Holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et. seq.*) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et. seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et. seq.*) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way Holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the Holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil or other pollutant, wherever found, shall be the responsibility of the Holder, regardless of fault. Upon failure of the Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized

Exhibit A
NM-102335

Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the Holder. Such action by the Authorized Officer shall not relieve the Holder of any liability or responsibility.

5. Sites shall be maintained in a neat and orderly condition at all times. Waste materials, both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, petroleum products, brines, chemicals, oil drums, ashes, and equipment.

6. The Holder shall ensure that the right-of-way, including any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar.

7. In those areas where erosion control structures are required to stabilize soil conditions, the Holder shall install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound management practices. Any earth work will require prior approval by the Authorized Officer.

8. All above-ground structures not subject to safety requirements shall be painted by the Holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is Carlsbad Canyon (formerly sandstone brown), Munsell Soil Color Chart Number 2.5Y 6/2.

9. The Holder shall post a sign designating the BLM serial number, NM-102335, assigned to this right-of-way grant in a permanent, conspicuous location on the site where the sign will be visible from the entry to the site. This sign will be maintained in a legible condition for the term of the right-of-way.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Holder, or any person working on the Holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The Holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the Holder.

11. A sales contract for removal of mineral material (caliche, sand, gravel, fill dirt, etc.) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. Contact the BLM solid minerals staff for the various options to purchase mineral material.

Exhibit A
NM-102335

12. The Holder shall ensure that the entire facility right-of-way, including any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar.

13. Special Stipulations:

The applicant will be required to meet all stipulations outlined in the APD and the measures stipulated by the New Mexico Oil Conservation Division..

EXHIBIT B
(April 16, 1999)

BLM Serial No. : NM - 102335

Company Reference: Chukka Fed. Well #2

The requirements set forth in this Exhibit B shall be applicable only in the event that Navajo Refining Company abandons the Federal lands described in Serial No. # NM 102335

Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State Law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State Law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>1lb./acre</u>
Plains lovegrass (<i>Eragrostis intermedia</i>)	0.5
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sideoats grama (<i>Bouteloua curtipendula</i>)	5.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

Exhibit C
NM-102335 3
April 16, 1992

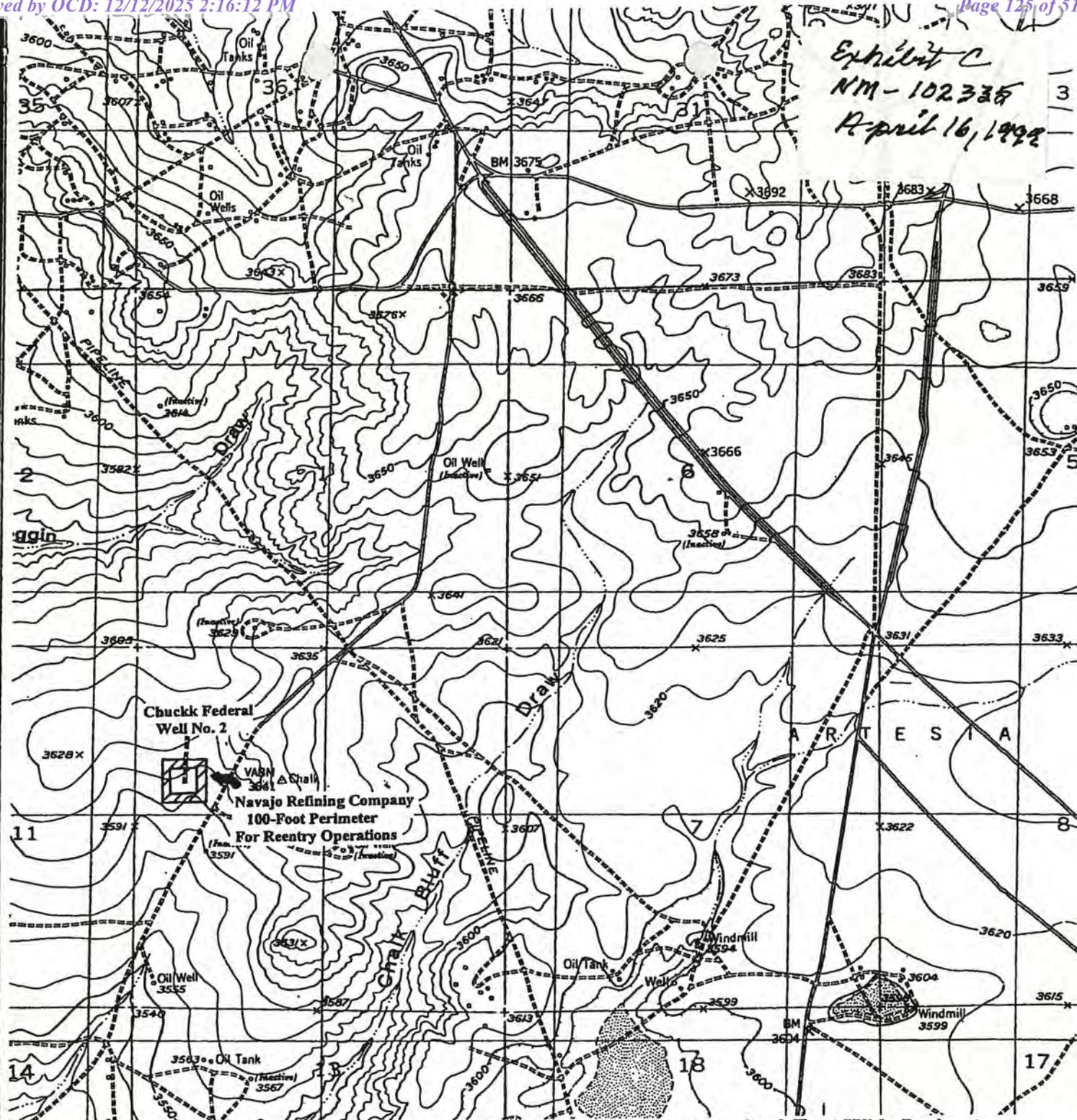


Figure 1. Location of The Navajo Refining Company One Hundred-Foot Wide Perimeter Proposed For Reentry Operations Around The Existing Chuckk Federal Well No. 2 in Section 12 (980' FNL, 660' FWL) T18S, R27E, NMPM, Eddy County, NM. Map Reference: Red Lake NM, 1955 (32104-G2).

Form 2800-14
(August 1985)

United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Issuing Office
Carlsbad Field Office

Right-Of-Way Grant
Serial Number: NM-110684A
Project Name: WDW 3

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of Oct. 21, 1976 (90 Sta. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

a. By this instrument, the holder:

HF Sinclair Navajo Refining LLC
501 E Main
Artesia, NM 88210



receives a right to construct, operate, maintain, and terminate a monitor well on existing well pad across public lands in Eddy County, New Mexico described as follows:

T. 18 S., R. 27 E., NMPM
sec. 01: SE¼SW¼.

- b. The right-of-way or permit area granted herein is a monitoring well on existing well pad.
- c. This instrument shall terminate on 12-31-2033 unless prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.
- d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.
- e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2880.
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter, not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibit A and B (map), attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workman like manner so as to ensure protection of the environment and the health and safety of the public.
- g. In the event that the public land underlying the right-of-way (ROW) encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the right-of-way, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part [2800][2880], including any rights to have the holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the right-of-way, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

IN WITNESS THEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

[Handwritten Signature]

(Signature of Holder)

UP of OPS & Refinery Mgr

(Title)

11-16-23

(Date)

[Handwritten Signature]

(Signature of Authorized Officer)

A Field Manager

(Title)

NOV 27 2023

(Effective Date of Grant)

FORM 2800-14
(August 1985)

Issuing Office
Carrizosa Field Office
RECEIVED
2008 OCT 24 AM 9 12
BUREAU OF LAND MANAGEMENT
CARRIZOSA FIELD OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY GRANT/TEMPORARY USE PERMIT
SERIAL NUMBER: NM-110684
Navajo Refining Company, L.P.

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

a. By this instrument, the holder:

Navajo Refining Company, L.P.
P.O. Box 159
Artesia NM 88211-0159

receives a right to construct, operate, maintain, and terminate an Effluent Water Disposal Well Site (re-entry) at Chalk Bluff Fed. Com #1, located on Federal lands described as follows:

T. 18 S., R. 27 E., NMPM
Sec. 1: SE $\frac{1}{4}$ SW $\frac{1}{4}$.

The lands described above contain a total length of 0.227 miles.

b. The right-of-way or permit area granted herein for a Effluent Water Disposal Site 400' X 400', which contains 3.673 acres, more or less.

c. This instrument shall terminate on October 24, 2033, 30 years from its effective date unless, prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.

e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

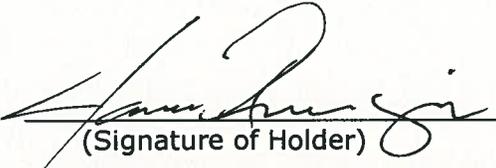
3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2880
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the Federal lands within 90 days, or otherwise disposed of as provided in paragraph (4)(c) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibits A and B, dated August 6, 2003, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.



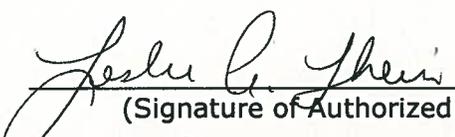
 (Signature of Holder)

RENEE MANN

 (Title)

10/1/03

 (Date)



 (Signature of Authorized Officer)

Leslie A. Theiss, Field Manager

 (Title)

OCT 24 2003

 (Effective Date of Grant)

EXHIBIT A
August 6, 2003

BLM Serial Number: NM-110684
Company Reference: Chalk Bluff Fed.
Com #1

STANDARD STIPULATIONS FOR FEDERAL LAND POLICY AND MANAGEMENT ACT
SITES IN THE CARLSBAD FIELD OFFICE AREA, BLM

A copy of the grant and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 *et seq.*, from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 *et seq.*, and from other applicable environmental statutes.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the Holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et seq.*) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, *etc.*) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way Holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the Holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the site any pollutant should be discharged from site facilities, or from containers, or vehicles impacting public lands, the control and total removal, disposal, and cleanup of such pollutant, wherever found, shall be the responsibility of the Holder, regardless of fault. Upon failure of the Holder to control, dispose of, or clean up such discharge on or affecting

public lands, or to repair all damages to public lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the Holder. Such action by the Authorized Officer shall not relieve the Holder of any liability or responsibility.

5. The Holder shall ensure that the entire site right-of-way, including any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar.

6. Sites shall be maintained in a neat and orderly condition at all times. Waste materials, both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, and equipment.

7. All above-ground structures not subject to safety requirements shall be painted by the Holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is Carlsbad Canyon, Munsell Soil Color Chart Number 2.5Y 6/2.

8. The Holder shall post a sign designating the BLM serial number assigned to this right-of-way grant in a permanent, conspicuous location on the site where the sign will be visible from the entry to the site. This sign will be maintained in a legible condition for the term of the right-of-way.

9. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Holder, or any person working on the Holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The Holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the Holder.

10. Should the Holder require material from a federal mineral site to construct a base pad for the site, a sales contract for removal of such mineral material (caliche, sand, gravel, fill dirt, etc.) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. Contact the BLM solid minerals staff for the various options to purchase mineral material.

11. The Holder shall ensure that the entire right-of-way, including any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar.

Exhibit A
NM-110684

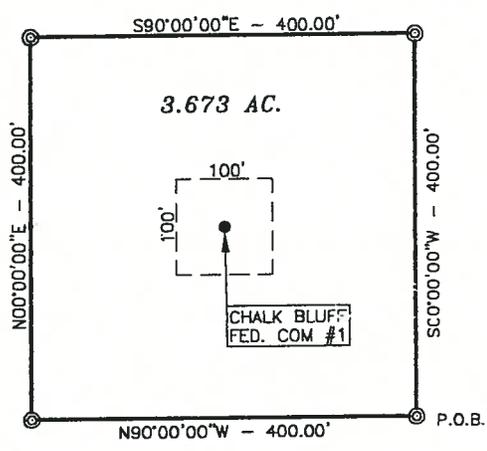
Special Stipulations:

Where practical sites will be located away from sinkholes and other cave or karst features. A compacted earthen fluid containment berm, at least two feet high at all points, will be constructed completely around well pads or facility sites.

SECTION 1, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

35	36	T17S	36	31
2	1	T18S	1	6

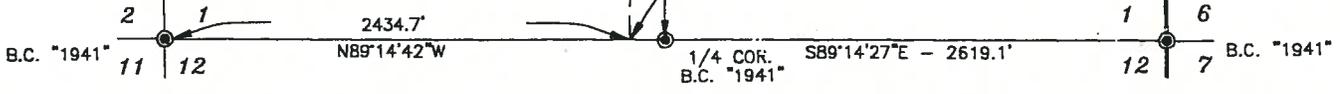
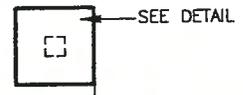
RECEIVED
2003 AUG 19 PM 2 15
BUREAU OF LAND MGMT.
CARLSBAD FIELD OFFICE



DETAIL
SCALE - 1"=200'

LEGEND

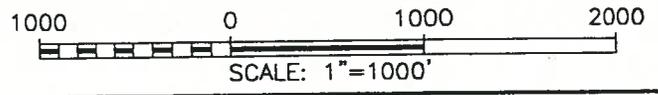
- ⊙ DENOTES FOUND MONUMENT AS NOTED
- ⊙ DENOTES SET 1/2" STL ROD W/PVC CAP MARKED "PS 12641"



DESCRIPTION

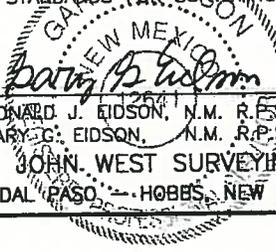
A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 1, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 1, WHICH LIES N89°14'42"W ALONG THE SOUTH LINE OF SAID SECTION 186.3 FEET AND N00°45'18"E 592.5 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION, THEN N90°00'00"W 400.00 FEET; THEN N00°00'00"E 400.00 FEET; THEN S90°00'00"E 400.00 FEET; THEN S00°00'00"W 400.00 FEET TO THE POINT OF BEGINNING AND CONTAINING 3.673 ACRES MORE OR LESS.



NOTE: BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983, DISTANCES ARE SURFACE VALUES.

I HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



RONALD J. EIDSON, N.M. R.P.S. No. 3239
GARY G. EIDSON, N.M. R.P.S. No. 12641

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO, HOBBBS, NEW MEXICO - 505-393-3117

NAVAJO REFINING COMPANY

SURVEY A TRACT OF LAND SITUATED IN SECTION 1, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 8/6/03	Sheet 1 of 1 Sheets
W.O. Number: 03.11.0831	Drawn By: L.A.
Date: 8/7/03	DISK: CD#2
	03110831

OFFICIAL FILE COPY



United States Department of the Interior

Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220
www.nm.blm.gov

S.al 9/25/03
R. Johnson 9/25/03

[Handwritten signature]
9/25/03

IN REPLY REFER TO:
NM-110684
2800(080)sva

Navajo Refining Company, L.P.
Attention: John Rapp
P.O. Box 159
Artesia NM 88211-0159

SEP 26 2003

RE: Right-of-Way
NM-110684
Chalk Bluff Fed. Com #1

Dear Mr. Rapp:

On August 6, 2003, you filed a right-of-way application for an Effluent Water Disposal well site on Federal lands.

Before the grant can be issued, your authorized officer must execute page two of both copies of the grant and return each, with enclosures, to this office for signature by the BLM authorized officer. Please notify the grazing allottee, Bogle Limited Company, c/o Louis Derrick at (505) 743-5442, one week prior to start of construction.

Rental charges have been computed on your right-of-way application. The rental and other charges shown below should be remitted with the signed copies of the grant at your earliest convenience. Failure to return the documents and payment in a timely manner could result in denial of your application.

Date of Grant to December 31, 2003	\$ 75.00
Yearly Rental	\$ 300.00
Monitoring Fee	\$ 75.00
Total Amount Due	\$ 450.00

The Bureau of Land Management reserves the right to update the rental charges whenever necessary to reflect changes in the Implicit Price Deflator GNP. The new rental date is January 1, 2005.

If you have any questions, please contact Salomon Arreola at (505) 234-5903.

Sincerely,

/s/ NOE GONZALEZ

[Handwritten signature]
Leslie A. Theiss
Field Manager

Form 2800-14
(August 1985)

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Right-Of-Way Grant
Serial Number: NM-137892A
Project Name: WDW 4

Issuing Office
Carlsbad Field Office

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of Oct. 21, 1976 (90 Sta. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

a. By this instrument, the holder:

HF Sinclair Navajo Refining LLC
501 East Main Street
Artesia, NM 88210



receives a right to construct, operate, maintain, and terminate a monitor well on existing well pad across public lands in Eddy County, New Mexico described as follows:

T. 17 S., R. 27 E., NMPM
sec. 23: SE $\frac{1}{4}$ SW $\frac{1}{4}$.

b. The right-of-way or permit area granted herein is a monitoring well.

c. This instrument shall terminate on 12-31-2047 unless prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.

e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2880.
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter, not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibit A and B (map), attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workman like manner so as to ensure protection of the environment and the health and safety of the public.
- g. In the event that the public land underlying the right-of-way (ROW) encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the right-of-way, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part [2800][2880], including any rights to have the holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the right-of-way, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

IN WITNESS THEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

Travis M...

(Signature of Holder)

Carol...

(Signature of Authorized Officer)

VP of Ops & Refinery Mgr.

(Title)

Rv Field Manager

(Title)

11-16-23

(Date)

NOV 27 2023

(Effective Date of Grant)

Form 2800-14
(August 1985)

United States Department of the Interior
Bureau of Land Management
RIGHT-OF-WAY GRANT
Serial Number: NM-137892
Project Name: WDW-4 Buried SWD Line

Issuing Office
Carlsbad Field Office

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of Oct. 21, 1976 (90 Sta. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

a. By this instrument, the holder:

Holly Frontier Navajo Refining, LLC
501 E. Main
Artesia, NM 88210

receives a right to construct, operate, maintain, and terminate a waste disposal well, access road and a 8-inch buried salt water disposal pipeline across public land in Eddy County, New Mexico described as follows:

T. 17 S., R 27 E., NMPM

sec. 23: N $\frac{1}{2}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SW $\frac{1}{4}$;

sec. 26: NW $\frac{1}{4}$ NW $\frac{1}{4}$;

sec. 27: NE $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$.

The lands described above contain a total length of 1.94 miles.

- b. The right-of-way or permit area granted herein is 30.00 feet wide, 10,253.60 feet long and contains 7.10 acres, more or less.
- c. This instrument shall terminate on 12-31-2047 unless prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.
- d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.
- e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2880.

- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter, not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibit A, A-1 and B (plats), attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workman like manner so as to ensure protection of the environment and the health and safety of the public.
- g. In the event that the public land underlying the right-of-way (ROW) encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the right-of-way, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part [2800][2880], including any rights to have the holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the right-of-way, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

IN WITNESS THEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

Robert K O'Brien
 (Signature of Holder)

[Signature]
 (Signature of Authorized Officer)

VP & REFINERY MANAGER
 (Title)

for
 Field Manager, Carlsbad Field Office
 (Title)

5/18/18
 (Date)

23 May 2018
 (Effective Date of Grant)

Exhibit A**BLM LEASE NUMBER:** NM-137892**COMPANY NAME:** Navajo Refining Company**ASSOCIATED WELL NAME:** WDW-4**BURIED PIPELINE STIPULATIONS**

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 *et seq.* (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 30 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.
- | | |
|---|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input type="checkbox"/> seed mixture 2 | <input checked="" type="checkbox"/> seed mixture 4 |
| <input checked="" type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |
13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

Special Stipulations:

Cave/Karst

To avoid or lessen the potential of subsidence or collapse of karst features, toxic or combustible gas buildup, or other possible impacts to cave and karst resources from buried pipelines or cables, alignments may be rerouted to avoid karst features. The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required at such intersections, if any. Leak detection systems, back flow eliminators, and differential pressure shut-off valves may be required to minimize the impacts of leaking or ruptured pipelines. To eliminate these extreme possibilities, good record keeping is needed to quickly identify leaks for their immediate and proper treatment.

Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Seeding Stipulations have been attached

EXHIBIT A-1

BLM Serial No.: NM-137892

Company Reference: Holly Frontier Navajo Refining Company

Mixture 4, for Gypsum Sites

The holder shall seed all the disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>Ib/acre</u>
Alkli Sacaton (<i>Sporobolus airoides</i>)	1.5
DWS~ Four-wing saltbush (<i>Atriplex canescens</i>)	8.0

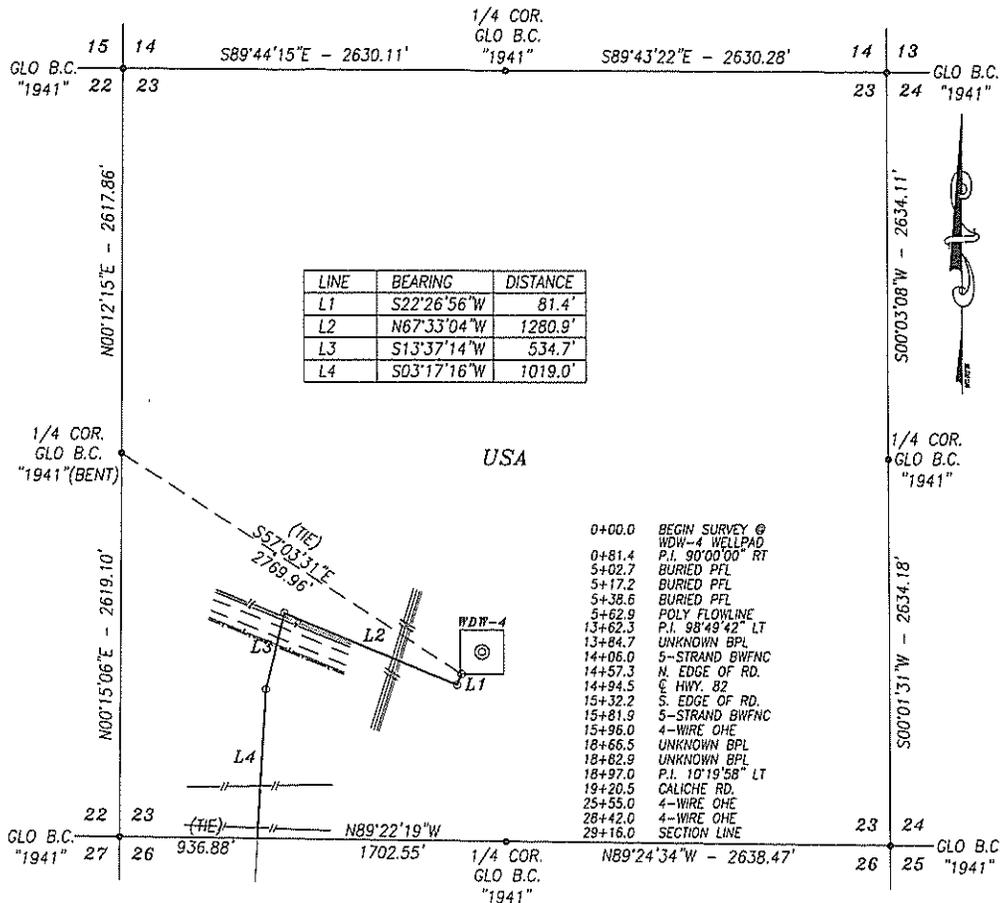
~DWS: DeWinged Seed

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PIPELINE PLAT: CW22696607
HOLLY FRONTIER NAVAJO REFINING, LLC

A PROPOSED PIPELINE FROM THE PROPOSED "WDW-4" WELL TO
AN EXISTING BURIED PIPELINE IN
SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

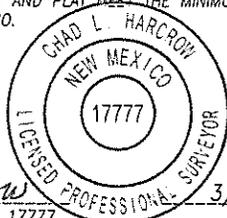


DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2916.0 FEET OR 176.73 RODS OR 0.552 MILES IN LENGTH CROSSING USA LAND IN SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

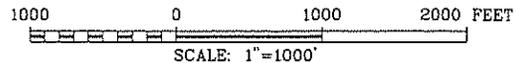
BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777 DATE 3/21/18

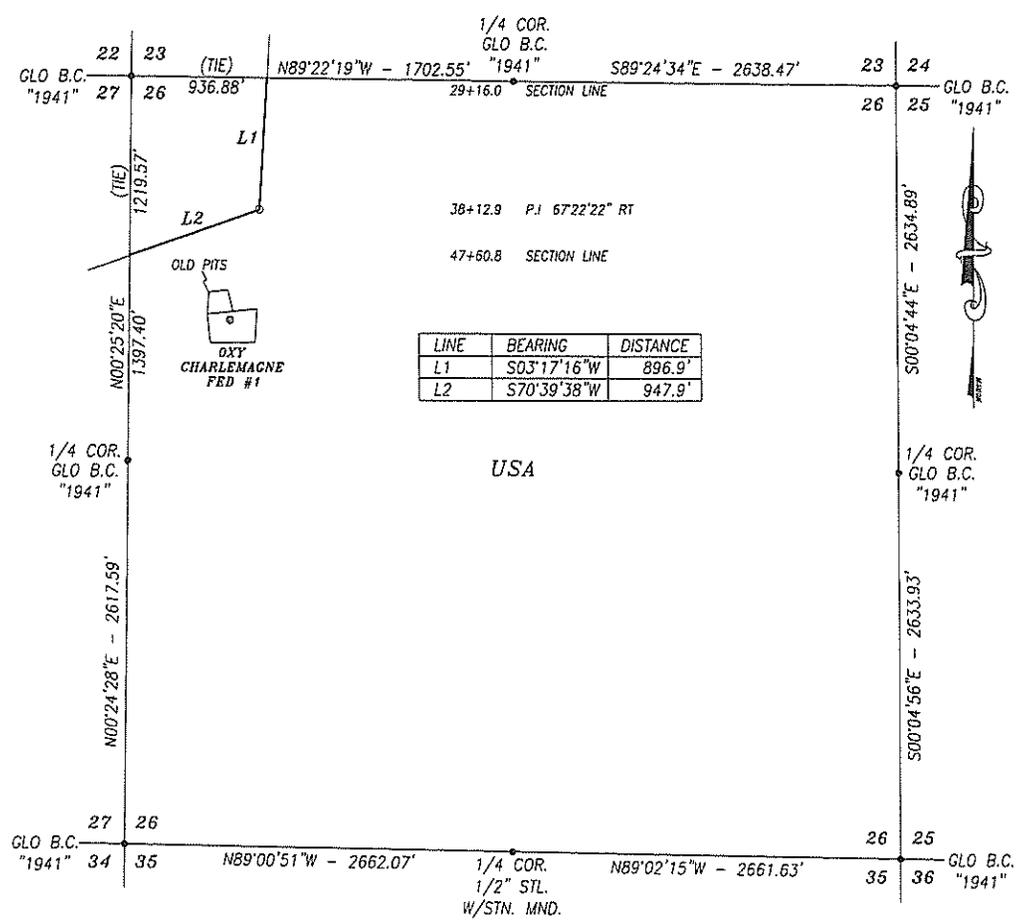
HARCROW SURVEYING, LLC
2314 W. MAIN ST. ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrov@harcrowsurveying.com



HOLLY FRONTIER NAVAJO REFINING, LLC	
SURVEY OF A PROPOSED PIPELINE LOCATED IN SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM, EDDY COUNTY, NEW MEXICO	
SURVEY DATE: MARCH 13, 2018	HFC #CW22696607
DRAFTING DATE: MARCH 16, 2018	PAGE 1 OF 3
APPROVED BY: CH	DRAWN BY: JH FILE: 18-220

EXHIBIT B
Page 2 of 4

PIPELINE PLAT: CW22696607
 HOLLY FRONTIER NAVAJO REFINING,
 A PROPOSED PIPELINE FROM THE PROPOSED "WDW-4" WELL TO
 AN EXISTING BURIED PIPELINE IN
 SECTION 26, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.



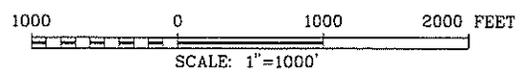
DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 1844.8 FEET OR 111.81 RODS OR 0.349 MILES IN LENGTH CROSSING USA LAND IN SECTION 26, TOWNSHIP 17 SOUTH, RANGE 27 EAST, EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

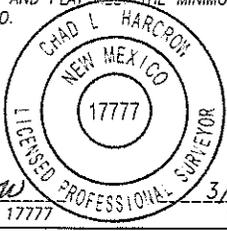
BASIS OF BEARING:
 BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
 I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

HARCROW SURVEYING, LLC
 2314 W. MAIN ST. ARTESIA, N.M. 88210
 PH: (575) 746-2158 FAX: (575) 746-2158
 Texas Firm No. 10194089
 c.harcrow@harcrowsurveying.com



Chad Harrow
 CHAD HARCROW N.M.P.S. NO. 17777
 DATE 3/21/18



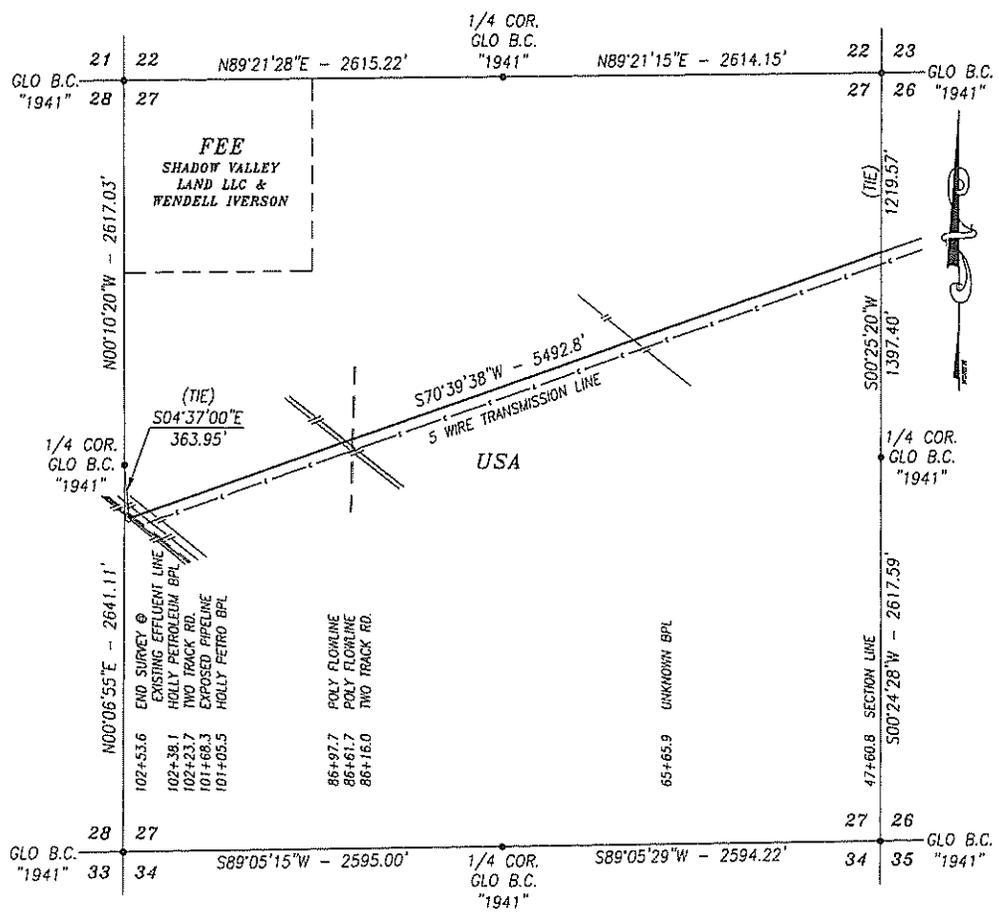
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APPROVED BY: CH	DRAWN BY: JH
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V/VV-15187

PIPELINE PLAT: CW22696607
HOLLY FRONTIER NAVAJO REFINING, LLC
 A PROPOSED PIPELINE FROM THE PROPOSED "WDW-4" WELL TO
 AN EXISTING BURIED PIPELINE IN
SECTION 27, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, **NEW MEXICO.**

EXHIBIT B

Page 3 of 4



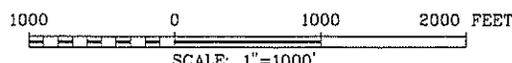
DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 5492.8 FEET OR 332.90 RODS OR 1.040 MILES IN LENGTH CROSSING USA LAND IN SECTION 27, TOWNSHIP 17 SOUTH, RANGE 27 EAST, EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BASIS OF BEARING:
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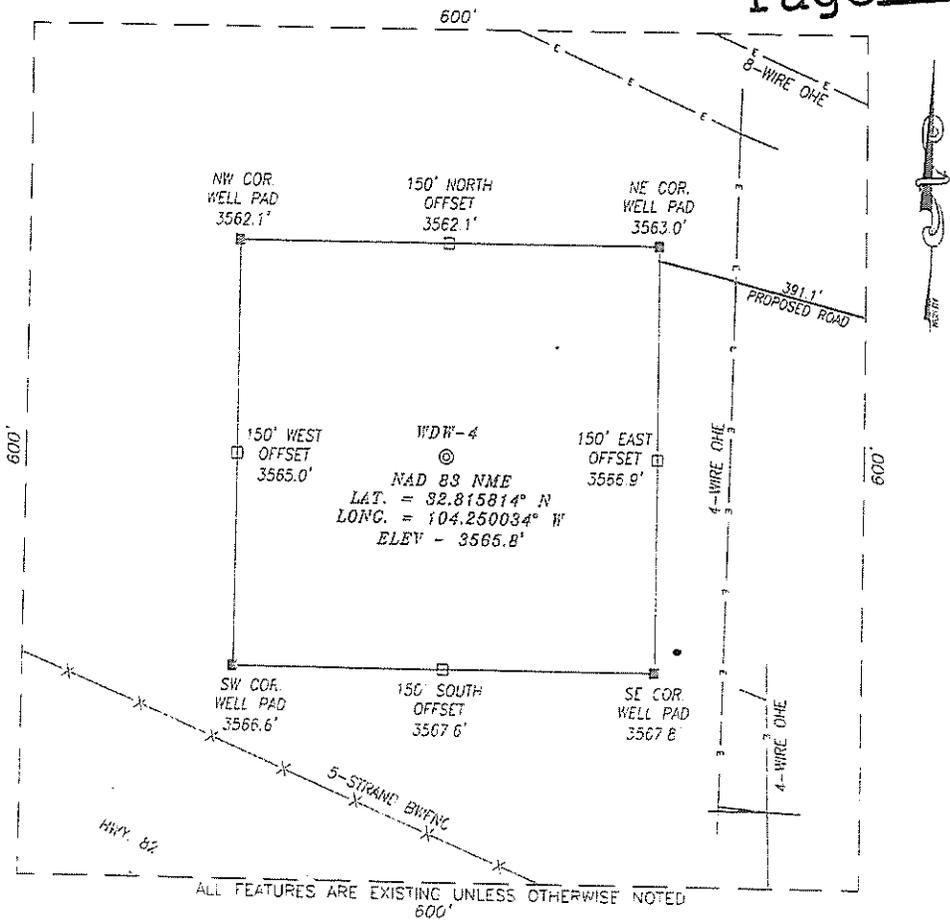


Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777 DATE 3/21/18

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DRAFTING DATE: MARCH 16, 2018	PAGE 3 OF 3
APPROVED BY: CH	DRAWN BY: JH
	FILE: 18-220

SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, EDDY COUNTY

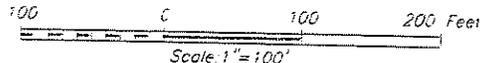
EXHIBIT B
Page 4 of 4



ALL FEATURES ARE EXISTING UNLESS OTHERWISE NOTED

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HWY 82, AND C.R. 202 GO NORTHELY ON C.R. 202 APPROX. 0.6 MI., THEN TURN LEFT (NORTHWEST) AT Y; GO APPROX. 0.5 MI., THEN TURN LEFT (SOUTH) AND GO APPROX. 0.3 MI. TO A PROPOSED ROAD; PROPOSED WELL LIES APPROX. 530 FEET TO THE RIGHT (WEST)



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 Texas Firm No. 16194780
 e:harcrow@harcrowsurveying.com



WSP USC, INC.	
WDW-4 LOCATED 1217 FEET FROM THE SOUTH LINE AND 2445 FEET FROM THE WEST LINE OF SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO	
SURVEY DATE: JUNE 15, 2017	PAGE: 1 OF 1
DRAFTING DATE: JUNE 20, 2017	
APPROVED BY: CH	DRAWN BY: SA FILE 17-750

Form 2800-14

(August 1985)

United States Department of the Interior

Bureau of Land Management

RIGHT-OF-WAY GRANT

Serial Number: NM-137892

Project Name: WDW-4 Buried SWD Line

Issuing Office

Carlsbad Field Office

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of Oct. 21, 1976 (90 Sta. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

a. By this instrument, the holder:

Holly Frontier Navajo Refining, LLC
501 E. Main
Artesia, NM 88210



receives a right to construct, operate, maintain, and terminate a 8-inch buried salt water disposal pipeline across public land in Eddy County, New Mexico described as follows:

T. 17 S., R 27 E., NMPM

- sec. 23: N $\frac{1}{2}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SW $\frac{1}{4}$;
- sec. 26: NW $\frac{1}{4}$ NW $\frac{1}{4}$;
- sec. 27: NE $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$.

The lands described above contain a total length of 1.94 miles.

- b. The right-of-way or permit area granted herein is 30.00 feet wide, 10,253.60 feet long and contains 7.10 acres, more or less.
- c. This instrument shall terminate on 12-31-2047 unless prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.
- d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.
- e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2880.

- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter, not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibit A, A-1 and B (plats), attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workman like manner so as to ensure protection of the environment and the health and safety of the public.
- g. In the event that the public land underlying the right-of-way (ROW) encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the right-of-way, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part [2800][2880], including any rights to have the holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the right-of-way, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

IN WITNESS THEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

Robert K O'Brien
 (Signature of Holder)

[Signature]
 (Signature of Authorized Officer)

VP & REFINERY MANAGER
 (Title)

[Signature]
 Field Manager, Carlsbad Field Office
 (Title)

5/18/18
 (Date)

23 May 2018
 (Effective Date of Grant)

Exhibit A**BLM LEASE NUMBER:** NM-137892**COMPANY NAME:** Navajo Refining Company**ASSOCIATED WELL NAME:** WDW-4

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 30 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.
- | | |
|---|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input type="checkbox"/> seed mixture 2 | <input checked="" type="checkbox"/> seed mixture 4 |
| <input checked="" type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |
13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

Special Stipulations:

Cave/Karst

To avoid or lessen the potential of subsidence or collapse of karst features, toxic or combustible gas buildup, or other possible impacts to cave and karst resources from buried pipelines or cables, alignments may be rerouted to avoid karst features. The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required at such intersections, if any. Leak detection systems, back flow eliminators, and differential pressure shut-off valves may be required to minimize the impacts of leaking or ruptured pipelines. To eliminate these extreme possibilities, good record keeping is needed to quickly identify leaks for their immediate and proper treatment.

Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Seeding Stipulations have been attached

EXHIBIT A-1

BLM Serial No.: NM-137892

Company Reference: Holly Frontier Navajo Refining Company

Mixture 4, for Gypsum Sites

The holder shall seed all the disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Alkli Sacaton (<i>Sporobolus airoides</i>)	1.5
DWS~ Four-wing saltbush (<i>Atriplex canescens</i>)	8.0

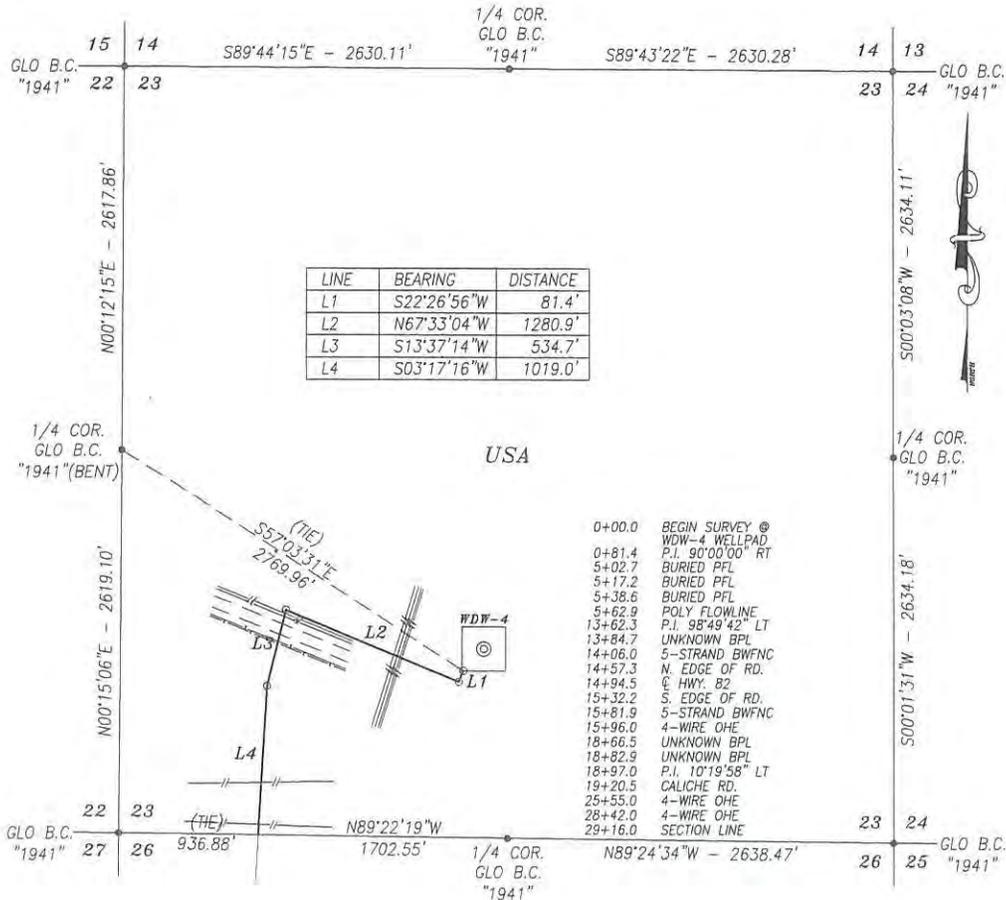
~DWS: DeWinged Seed

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PIPELINE PLAT: CW22696607
HOLLY FRONTIER NAVAJO REFINING, LLC

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EDDY COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2916.0 FEET OR 176.73 RODS OR 0.552 MILES IN LENGTH CROSSING USA LAND IN SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

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Texas Firm No. 10194089

c.harcrow@harcrowsurveying.com



1000 0 1000 2000 FEET



SCALE: 1"=1000'

HOLLY FRONTIER NAVAJO REFINING, LLC

SURVEY OF A PROPOSED PIPELINE LOCATED IN SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM, EDDY COUNTY, NEW MEXICO

SURVEY DATE: MARCH 13, 2018 HFC #CW22696607

DRAFTING DATE: MARCH 16, 2018 PAGE 1 OF 3

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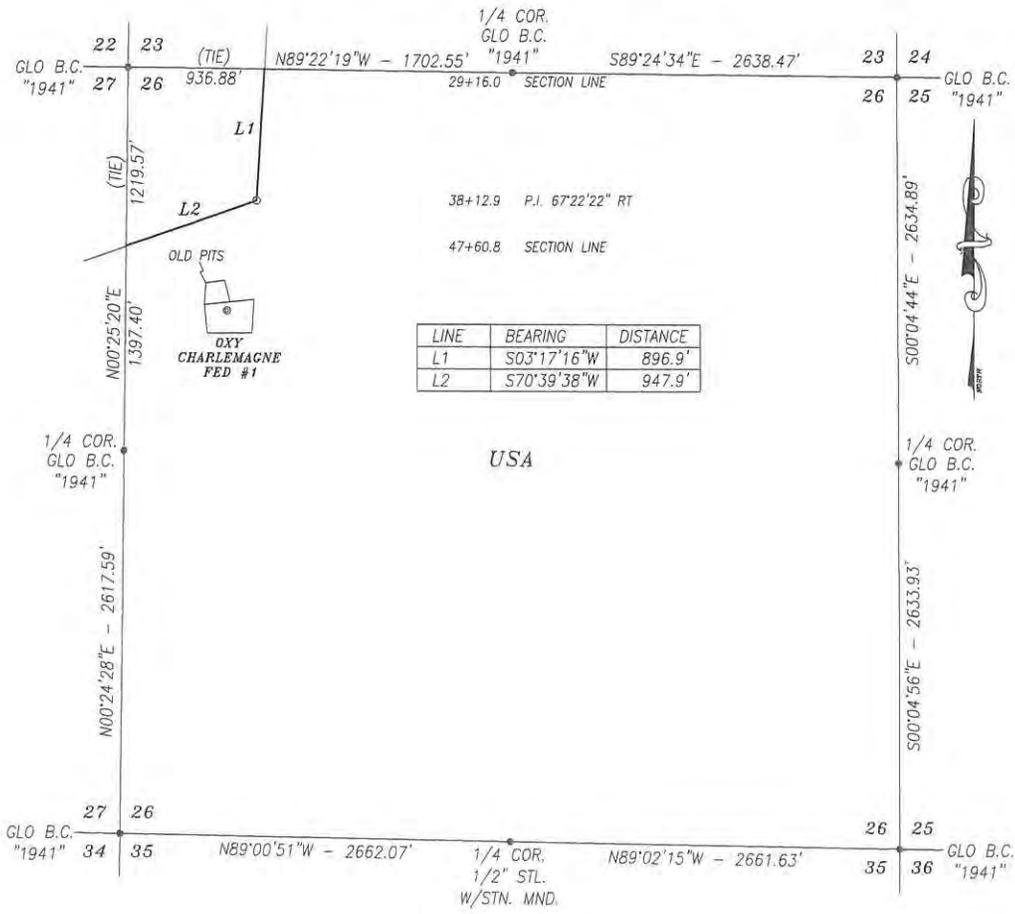


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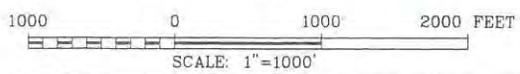
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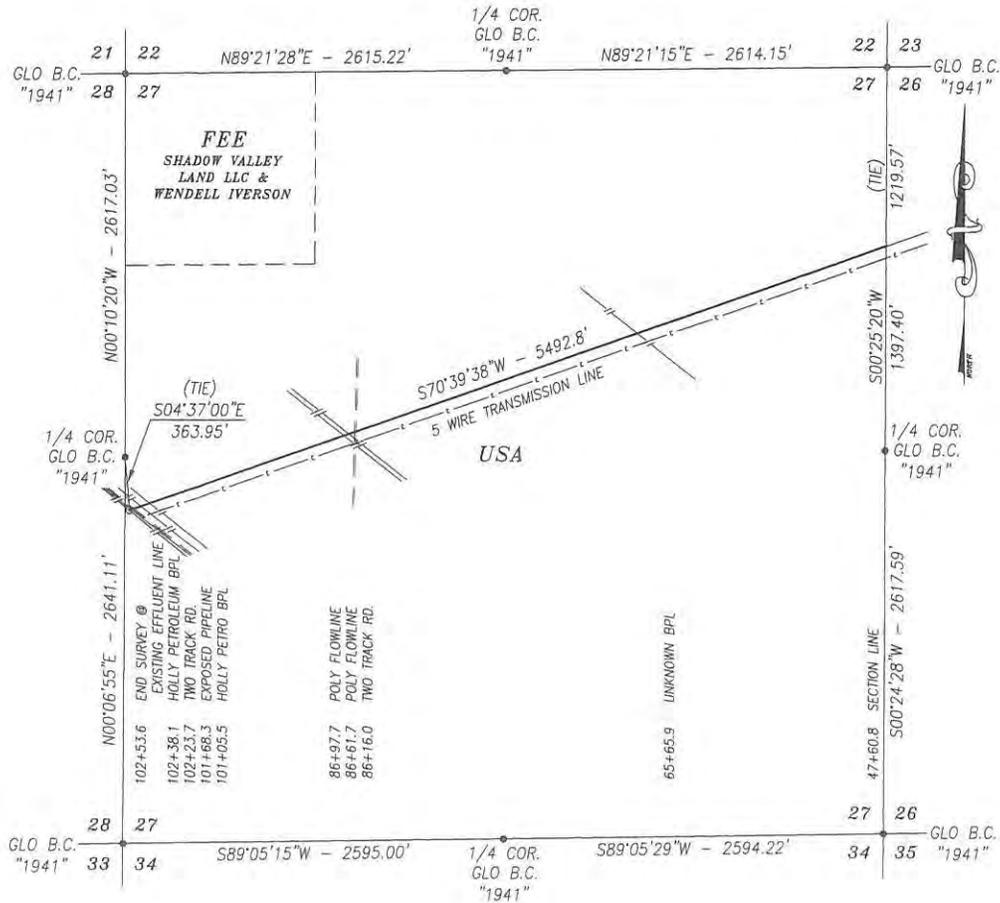
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SURVEY DATE: MARCH 13, 2018	HFC #CW22696607
DRAFTING DATE: MARCH 16, 2018	PAGE 2 OF 3
APPROVED BY: CH	DRAWN BY: JH
	FILE: 18-220

PIPELINE PLAT: CW22696607
HOLLY FRONTIER NAVAJO REFINING, LLC
 A PROPOSED PIPELINE FROM THE PROPOSED "WDW-4" WELL TO
 AN EXISTING BURIED PIPELINE IN
SECTION 27, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, **NEW MEXICO.**

EXHIBIT B
Page 3 of 4



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 5492.8 FEET OR 332.90 RODS OR 1.040 MILES IN LENGTH CROSSING USA LAND IN SECTION 27, TOWNSHIP 17 SOUTH, RANGE 27 EAST, EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BASIS OF BEARING:
 BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

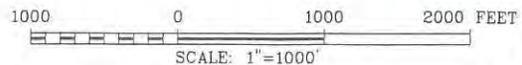
CERTIFICATION
 I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



Chad Harcrow
 CHAD HARCROW N.M.P.S., NO. 17777

3/21/18
 DATE

HARCROW SURVEYING, LLC
 2314 W. MAIN ST. ARTESIA, N.M. 88210
 PH: (575) 746-2158 FAX: (575) 746-2158
 Texas Firm No. 10194089
 c.harcrow@harcrowsurveying.com



HOLLY FRONTIER NAVAJO REFINING, LLC

SURVEY OF A PROPOSED PIPELINE LOCATED IN SECTION 27, TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM, EDDY COUNTY, NEW MEXICO

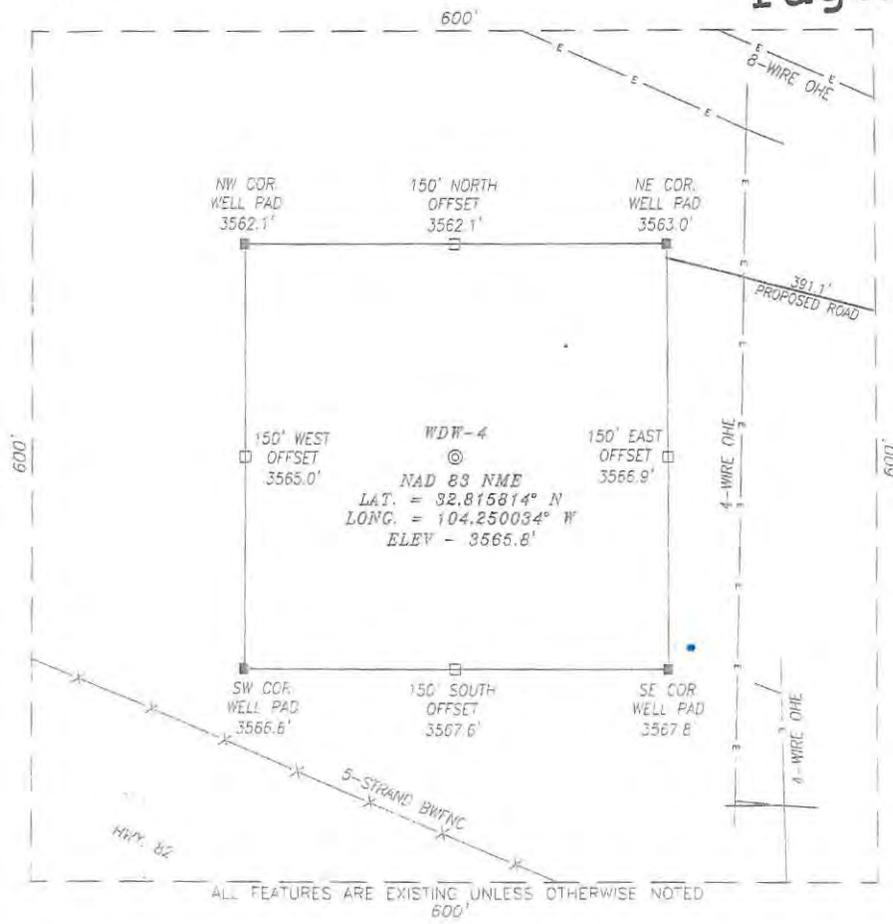
SURVEY DATE: MARCH 13, 2018	HFC #CW22696607
DRAFTING DATE: MARCH 16, 2018	PAGE 3 OF 3
APPROVED BY: CH	DRAWN BY: JH
	FILE: 18-220

NM-137892

EXHIBIT B

Page 4 of 4

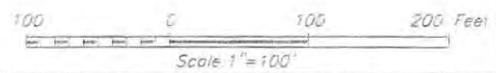
SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY



ALL FEATURES ARE EXISTING UNLESS OTHERWISE NOTED

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HWY 82, AND C.R. 202 GO NORTHEAST ON C.R. 202 APPROX. 0.6 MI., THEN TURN LEFT (NORTHWEST) AT Y; GO APPROX. 0.5 MI. THEN TURN LEFT (SOUTH) AND GO APPROX. 0.3 MI. TO A PROPOSED ROAD; PROPOSED WELL LIES APPROX. 530 FEET TO THE RIGHT (WEST)



HARCROW SURVEYING, LLC
 2514 W MAIN ST. ARTESIA, N.M. 82010
 PH: (505) 740-2181 FAX: (505) 746-2188
 Texas Firm No. 16194569
 e: hrcrow@harcrow-surveying.com



WSP USC, INC.	
WDW-4 LOCATED 1217 FEET FROM THE SOUTH LINE AND 2448 FEET FROM THE WEST LINE OF SECTION 23, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO	
SURVEY DATE: JUNE 16, 2017	PAGE: 1 OF 1
DRAFTING DATE: JUNE 20, 2017	
APPROVED BY: CH	DRAWN BY: SA FILE: 17-750

OSE



Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 747180
File Nbr: RA 13331

May. 31, 2023

KAWIKA TUPOU
HF SINCLAIR NAVAJO REFINING
501 EAST MAIN STREET
ARTESIA, NM 88210

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in cursive script, appearing to read "Azucena Ramirez".

Azucena Ramirez
(575) 622-6521

Enclosure

explore

File No. **RA-13331 POD13**

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT



(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input type="checkbox"/> Other(Describe):
<input checked="" type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.
 *New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

<input type="checkbox"/> Temporary Request - Requested Start Date:	Requested End Date:
--	---------------------

Plugging Plan of Operations Submitted? Yes No

1. APPLICANT(S)

Name: HF Sinclair Navajo Refining LLC	Name:
Contact or Agent: <input type="checkbox"/> check here if Agent	Contact or Agent: <input type="checkbox"/> check here if Agent
Kawika Tupou	
Mailing Address: 501 East Main Street	Mailing Address:
City: Artesia	City:
State: NM Zip Code: 88210	State: Zip Code:
Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work): 575-746-5487	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): Kawika.Tupou@HFSinclair.com	E-mail (optional):

USE OR MAY 25 2023 10:15:11

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 07/12/22

File No.: RA-13331	Trn. No.: 747180	Receipt No.: 2-45805
Trans Description (optional): MOU		
Sub-Basin: RA	PCW/LOG Due Date: 5/30/24	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

NM State Plane (NAD83) (Feet) UTM (NAD83) (Meters) Lat/Long (WGS84) (to the nearest 1/10th of second)
 NM West Zone Zone 12N
 NM East Zone Zone 13N
 NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
RA-13331 POD1 WDW-2-MW-1	32.7636067436	-104.23861006	SW¼, SW¼, NW¼, Sec12, T18S, R27E
RA-13331 POD2 WDW-3-MW-1	32.771142984	-104.23345368	NE¼, SE¼, SW¼, Sec 1, T18S, R27E
RA-13331 POD3 WDW-4-MW-1	32.8158656898	-104.25011663	NE¼, SE¼, SW¼, Sec 23, T17S, R27E

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
 Additional well descriptions are attached: Yes No If yes, how many 4

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: BLM

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? Yes No
 If yes, how many 4

Approximate depth of well (feet): 150 Outside diameter of well casing (inches): 4.5
 Driller Name: TBD (Cascade, Talon or Yellow Jacket) Driller License Number:

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

OSE DT 12/25/2023 PM 1:51

4 UIC wells are authorized to inject under Oil Conservation Division (OCD) discharge permit. OCD is requiring the installation of one monitor well within 75 ft of each UIC well. The land is owned at locations WDW-2-MW-1, WDW-3-MW-1 and WDW-4-MW-1 by the BLM. BLM letters of approved access are attached.

Each of the 3 monitor wells shall be drilled to 150 ft and installed with the well depth dependent on the location of water bearing zones. The well will be completed with 15 ft of screen (10 ft below the water table and 5 ft above), 4 inch diameter PVC schedule 40 casing per OCD request. Wells will be drilled via sonic drilling method.

Monitoring wells are required indefinitely during the operation of the injection wells which under the OCD approved discharge permit. At final completion of project monitor wells will be properly abandoned and appropriate permits for plugging shall be obtained at that time.

FOR OSE INTERNAL USE Application for Permit, Form WR-07 Version 07/12/22

File No.: RA-13331	Trm No.: 747180
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4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of the requested pump test if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input checked="" type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of. Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
--	--	---	---

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Kawika Tupou

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.



Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

OCD OCT 25 2023 PM 1:52

This application is:

approved partially approved denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 5 day of June 20 23, for the State Engineer,

Mike A. Hamman, State Engineer

By: 
Signature

Juan Hernandez
Print

Title: District II Manager
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/12/22

File No.: RA-13331

Trn No.: 747180

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- LOG The Point of Diversion RA 13331 POD1 must be completed and the Well Log filed on or before 05/30/2024.
- LOG The Point of Diversion RA 13331 POD2 must be completed and the Well Log filed on or before 05/30/2024.
- LOG The Point of Diversion RA 13331 POD3 must be completed and the Well Log filed on or before 05/30/2024.

IT IS THE PERMITTEE'S RESPOSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 05/25/2023	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 5 day of June A.D., 2023

Mike A. Hamman, P.E. _____, State Engineer

By:  _____
JUAN HERNANDEZ

Trn Desc: RA 13331 POD1-3

File Number: RA 13331
Trn Number: 747180

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: RA 13331 POD1-3

File Number: RA 13331

Trn Number: 747180

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: RA 13331 POD1-3

File Number: RA 13331
Trn Number: 747180

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ROSWELL OFFICE

OFFICIAL RECEIPT NUMBER: 2-45805 DATE: 5/25/23 FILE NO.: _____
 TOTAL: 15.00 RECEIVED: Fifteen DOLLARS CHECK NO.: 106584 CASH: _____
 PAYOR: Daniel B. Stephens + Associates Inc ADDRESS: 6020 Academy Rd. NE, Suite 100 CITY: Albuquerque STATE: NM
 ZIP: 87109 RECEIVED BY: R.C.

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

- 1. Change of Ownership of Water Right \$ 2.00
- 2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$ 125.00
- 3. Application to Repair or Deepen 72-12-1 Well \$ 75.00
- 4. Application for Replacement 72-12-1 Well \$ 75.00
- 5. Application to Change Purpose of Use 72-12-1 Well \$ 75.00
- 6. Application for Stock Well/Temp. Use \$ 5.00

- 7. Application to Appropriate Irrigation, Municipal, or Commercial Use \$ 25.00
- 8. Declaration of Water Right \$ 1.00
- 9. Application for Additional Point of Diversion Non 72-12-1 Per Well \$ 25.00
- 10. Application to Change Place or Purpose of Use Non 72-12-1 Well \$ 25.00
- 11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water \$ 50.00
- 12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water \$ 50.00
- 13. Application to Change Point of Diversion of Non 72-12-1 Well \$ 25.00
- 14. Application to Repair or Deepen Non 72-12-1 Well \$ 5.00

- 15. Application for Test, Expl. Observ. Well \$ 5.00
- 16. Application for Extension of Time \$ 25.00
- 17. Proof of Application to Beneficial Use \$ 25.00
- 18. Notice of Intent to Appropriate \$ 25.00

B. Surface Water Filing Fees

- 1. Change of Ownership of a Water Right \$ 5.00
- 2. Declaration of Water Right \$ 10.00
- 3. Amended Declaration \$ 25.00
- 4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water \$ 200.00
- 5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water \$ 200.00
- 6. Application to Change Point of Diversion \$ 100.00
- 7. Application to Change Place and/or Purpose of Use \$ 100.00
- 8. Application to Appropriate \$ 25.00
- 9. Notice of Intent to Appropriate \$ 25.00
- 10. Application for Extension of Time \$ 50.00
- 11. Supplemental Well to a Surface Right \$ 100.00
- 12. Return Flow Credit \$ 100.00
- 13. Proof of Completion of Works \$ 25.00
- 14. Proof of Application of Water to Beneficial Use \$ 25.00
- 15. Water Development Plan \$ 100.00
- 16. Declaration of Livestock Water Impoundment \$ 10.00
- 17. Application for Livestock Water Impoundment \$ 10.00

C. Well Driller Fees

- 1. Application for Well Driller's License \$ 50.00
- 2. Application for Renewal of Well Driller's License \$ 50.00
- 3. Application to Amend Well Driller's License \$ 50.00

D. Reproduction of Documents

- @ 0.25¢ \$ _____
- Map(s) @ \$3.00 \$ _____

E. Certification

F. Other

G. Comments:

Mail

All fees are non-refundable.

Check Date: 5/22/2023

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
Permit 05222023	5/22/2023	0227543	15.00			15.00
New Mexico Office of the State Engineer		TOTAL	15.00			15.00
BANK OF ALBUQUERQUE 1		140219				

STATE OF NEW MEXICO §
 §
COUNTY OF EDDY §

Memorandum of Injection Well Access and Operation Agreement

NOTICE IS HEREBY PROVIDED that for good and valuable consideration, **COG Operation LLC and Concho Oil & Gas LLC** whose address is One Concho Center, 600 W. Illinois Avenue, Midland, Texas 79701 (“**Grantor**”), and HF Sinclair Navajo Refining LLC, whose address is 501 East Main, Artesia, New Mexico 88210 (“**Grantee**”), have entered into that certain unrecorded Injection Well Access and Operation Agreement (the “**Agreement**”), as of October 18, 2024, but effective as of October 1, 2010 (“**Effective Date**”), for the purpose of setting forth certain terms and conditions under which Grantee operates its WDW-1 (“**Well**”) on the following described tract of land (the “**Lands**”) owned by Grantor in Eddy County, New Mexico to-wit:

Exhibit A-1 hereto

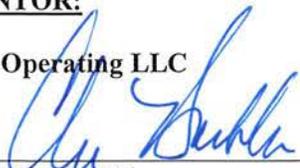
The Agreement commences on the Effective Date and remains in effect for so long thereafter as Grantee uses the Well for the purposes set forth herein without a cessation of three hundred and sixty-five (365) consecutive days. The Agreement, with all of its terms, covenants, and other provisions, is referred to and incorporated into this Memorandum of Injection Well Access and Operation Agreement (“**Memorandum**”) for all purposes. This Memorandum is placed of record for the purpose of giving notice of the Agreement, which by its express terms is a covenant running with the Lands and is binding upon the respective successors and assigns of Grantor and Grantee. An original of the Agreement is maintained in the offices of both Grantor and Grantee.

This Memorandum shall not be deemed to enlarge, diminish, restrict or change the rights of any of the parties to said Agreement but is for the purpose of giving record notice of the existence of the Agreement only.

This Memorandum is signed as of the date of each of the respective acknowledgments below, but is effective for all purposes as of the Effective Date of the Agreement, as stated above.

GRANTOR:

COG Operating LLC

By: 
Christopher Boehler
Attorney-in-Fact *B.R.S.*

Concho Oil & Gas LLC

By: 
Christopher Boehler
Attorney-in-Fact *B.R.S.*

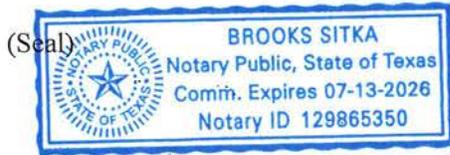
(Cont'd)

Exhibit D to Injection Well Access and Operation Agreement

NOTARY ACKNOWLEDGEMENT

STATE OF Texas)
)
COUNTY OF Midland)

This instrument was executed and acknowledged before me on 11-14-2024 (date)
by Christopher Boehler on behalf of COG Operating LLC and Concho Oil & Gas LLC.



Brooks Sitka
Signature of Notary
My commission expires on: 7-13-2026

GRANTEE:

HF SINCLAIR NAVAJO REFINING LLC

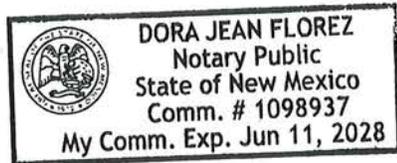
By: Travis G
Name: TRAVIS GIBB
Title: VP of Ops & Refinery Manager

NOTARY ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
)
COUNTY OF Eddy)

This instrument was executed and acknowledged before me on 10-31-2024 (date)
by TRAVIS GIBB on behalf of HF Sinclair Navajo Refining LLC.

(Seal)



Dora Jean Florez
Signature of Notary
My commission expires on: June 11, 2028

Project Name: WDW #1 (UICI-8-1) Disposal Well

EXHIBIT A-1
Wellpad Description

Injection Well Information

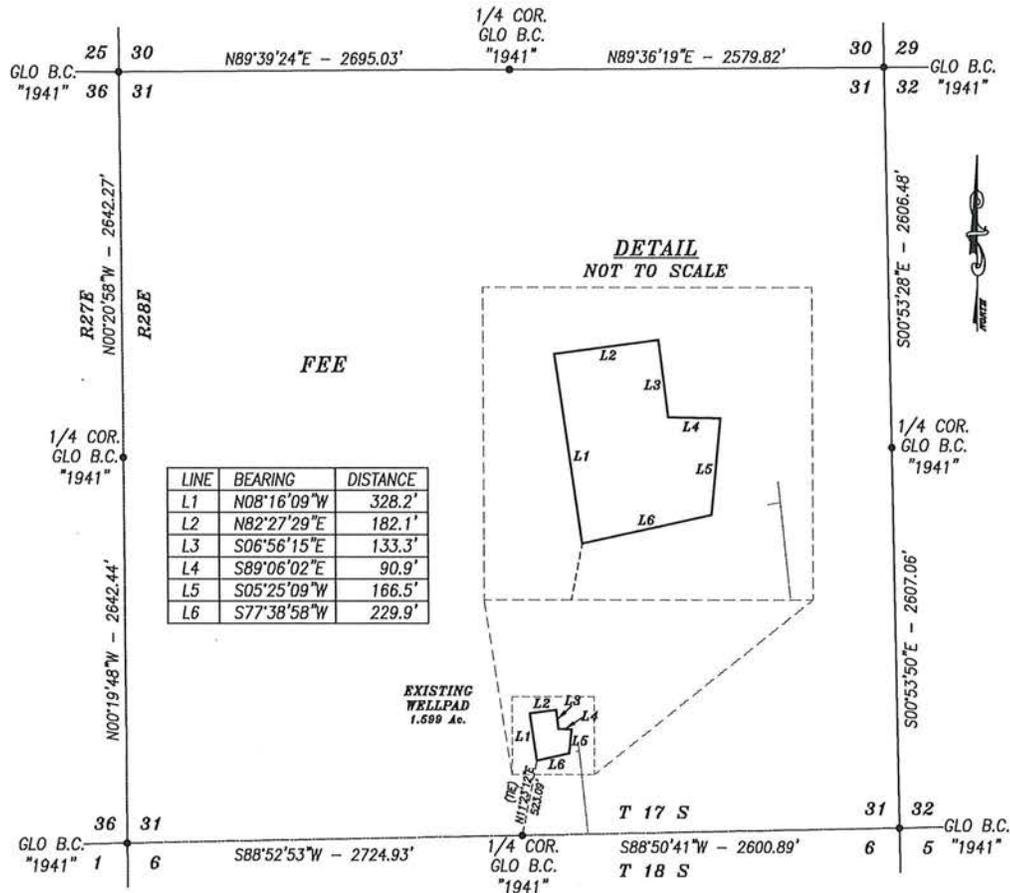
Current Well Name: HF Sinclair Navajo Refinery LLC WDW #1 (UICI-8-1)

Former Well Name: Mewbourne Oil Company Chalk Bluff 31 State #1

API#: 30-015-27592

Exhibit A-1 to Injection Well Access and Operation Agreement

BUSINESS LEASE PLAT
HF SINCLAIR
 AN EXISTING WELLPAD IN
SECTION 31, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.



DESCRIPTION

AN EXISTING PAD LOCATED WITHIN FEE LAND IN SECTION 31, TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM, EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF THE EXISTING PAD, WHICH LIES N11°23'12"E 523.09 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION; THEN N08°16'09"W 328.2 FEET; THEN N82°27'29"E 182.1 FEET; THEN S06°56'15"E 133.3 FEET; THEN S89°06'02"E 90.9 FEET; THEN S05°25'09"W 166.5 FEET; THEN S77°38'58"W 229.9 FEET TO THE POINT OF BEGINNING.

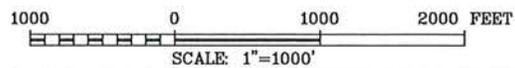
SAID PAD CONTAINS 1.599 ACRES.

BASIS OF BEARING:
 BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

HARCROW SURVEYING, LLC
 2316 W. MAIN ST. ARTESIA, N.M. 88210
 PH: (575) 746-2158
 c.harcrow@harcrowsurveying.com



CERTIFICATION
 I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



Chad Harcrow
 CHAD HARCROW N.M.P.S. NO. 17777
 8/13/24
 DATE

HF SINCLAIR	
SURVEY OF AN EXISTING WELLPAD LOCATED IN SECTION 31, TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM, EDDY COUNTY, NEW MEXICO	
SURVEY DATE: AUGUST 2, 2024	WELLPAD
DRAFTING DATE: AUGUST 6, 2024	PAGE 1 OF 1
APPROVED BY: CH	DRAWN BY: JH
	FILE: 24-612

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 774264
File Nbr: RA 13536

Feb. 27, 2025

CASE HINKINS
HF SINCLAIR NAVAJO REFINING
501 EAST MAIN STREET
ARTESIA, NM 88210

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * You, the permittee, are required to email nm.driller@ose.nm.gov with the following information when the driller is enroute to the drilling site: OSE Permit number, POD number, physical address, driller company and license number, and date/time driller is to be on site.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.nm.gov.

Sincerely,

Rodolfo Chavez
(575) 622-6521

Enclosure

File No. RA-13536 POD1

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable boxes):

For fees, see State Engineer website: <https://www.ose.nm.gov/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input type="checkbox"/> Other(Describe):
<input checked="" type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.
 *New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

Yes No Angled/Directional borehole - include schematic and azimuth, inclination, measured depth and true vertical depth.

Temporary Request - Requested Start Date: _____ Requested End Date: _____

Plugging Plan of Operations Submitted? Yes No

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form.

1. APPLICANT(S)

Name: HF Sinclair Navajo Refining LLC	Name:
Contact or Agent: check here if Agent <input type="checkbox"/>	Contact or Agent: check here if Agent <input type="checkbox"/>
Case Hinkins	
Mailing Address: 501 East Main Street	Mailing Address:
City: Artesia	City:
State: NM Zip Code: 88210	State: Zip Code:
Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work): (575) 746-5487	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): Case.Hinkins@HFSinclair.com	E-mail (optional):

OSE DRI ROSWELL NM
16 DEC 24 4:08:01

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 10/02/2024

File No.: RA-13536	Trn. No.: 774264	Receipt No.: 247560
Trans Description (optional):		
Sub-Basin: RA	PCW/LOG Due Date: 12/23/25	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

- Input fields for coordinate systems: NM State Plane (NAD83) (Feet) with sub-options for West, East, and Central Zones; UTM (NAD83) (Meters) with sub-options for Zone 12N and Zone 13N; and Lat/Long (WGS84) (to the nearest 1/10th of second).

Table with 6 columns: Well Number (if known), X or Easting or Longitude, Y or Northing or Latitude, -Public Land Survey System (PLSS) (QQQSection, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name, Well Depth in feet, and Casing Diameter (OD). Row 1 contains handwritten data: WDW-1-MW-1 RA-13536 POD1, 32.78507472, -104.214012, SW1/4,SW1/4,SE1/4,Sec 31,T17S,R28E, 500, 4.5.

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions) Additional well descriptions are attached: Yes No If yes, how many

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: COG Operation LLC and Concho Oil & Gas LLC

Well Information: NOTE: If casings telescope or involve nested casing, please provide diagram. Attached? Yes No

Approximate depth to water (feet): 500 Outside diameter of well casing (inches): 4.5 Driller Name: Cascade Driller License Number: 1664

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

OSE DII ROSWELL NM 16 DEC '24 AM8:51

4 UIC wells are authorized to inject under Oil Conservation Division (OCD) discharge permit. OCD is requiring the installation of one monitor well within 75 ft of each UIC well. The land for WDW-1-MW-1 is owned by COG Operation LLC and Concho Oil & Gas LLC, a land access agreement is attached. WDW-1-MW-1 shall be drilled to 500 ft and installed with the well depth dependent on the location of water bearing zones. The well will be completed with a 15 ft of screen (10 ft below the water table and 5 ft above), 4 inch schedule 40 diameter per OCD request. Wells will be drilled via sonic drilling method. The monitor well is required to be sampled throughout operation of the injection well WDW-1 which is authorized by OCD. At time of site closure of the Underground Injection Control well, monitor wells shall be properly abandoned with appropriate permits for plugging. If no well is installed due to lack of waterbearing units, the borehole will be abandoned with a bentonite grout from depth to 2ft from surface and the top 0-2 ft will be backfilled with native material.

FOR OSE INTERNAL USE Application for Permit, Form WR-07 Version 10/02/2024

File No.: RA-13536 POD1 Trn No.: 774264

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory*: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input checked="" type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p> <p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for Mine De-Watering, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
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(* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Case Hinkins

Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief.

[Handwritten Signature]

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

- approved
- partially approved
- denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 27th day of February 20 25, for the State Engineer,

ELIZABETH K. ANDERSON, P.E., State Engineer

By: *K. Parekh*

KASHYAP PAREKH

Signature

Print

Title: WATER RESOURCE MANAGER I

Print



FOR OSE INTERNAL USE

Application for Permit, Form WR-01 Version 10/02/2024

File No.: RA-13536 P001

Trm No.: 774264

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: RA 13536 POD1

File Number: RA 13536

Trn Number: 774264

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: RA 13536 POD1

File Number: RA 13536
Trn Number: 774264

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion RA 13536 POD1 must be completed and the Well Log filed on or before 02/27/2026.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 12/16/2024 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 27 day of Feb A.D., 2025

Elizabeth K. Anderson, P.E., State Engineer

By: K. Parekh
KASHYAP PAREKH



Trn Desc: RA 13536 POD1

File Number: RA 13536

Trn Number: 774264

STATE OF NEW MEXICO §
 §
COUNTY OF EDDY §

Memorandum of Injection Well Access and Operation Agreement

NOTICE IS HEREBY PROVIDED that for good and valuable consideration, **COG Operation LLC and Concho Oil & Gas LLC** whose address is One Concho Center, 600 W. Illinois Avenue, Midland, Texas 79701 (“Grantor”), and **HF Sinclair Navajo Refining LLC**, whose address is 501 East Main, Artesia, New Mexico 88210 (“Grantee”), have entered into that certain unrecorded Injection Well Access and Operation Agreement (the “Agreement”), as of October 18, 2024, but effective as of October 1, 2010 (“Effective Date”), for the purpose of setting forth certain terms and conditions under which Grantee operates its WDW-1 (“Well”) on the following described tract of land (the “Lands”) owned by Grantor in Eddy County, New Mexico to-wit:

Exhibit A-1 hereto

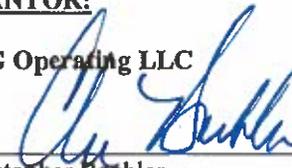
The Agreement commences on the Effective Date and remains in effect for so long thereafter as Grantee uses the Well for the purposes set forth herein without a cessation of three hundred and sixty-five (365) consecutive days. The Agreement, with all of its terms, covenants, and other provisions, is referred to and incorporated into this Memorandum of Injection Well Access and Operation Agreement (“Memorandum”) for all purposes. This Memorandum is placed of record for the purpose of giving notice of the Agreement, which by its express terms is a covenant running with the Lands and is binding upon the respective successors and assigns of Grantor and Grantee. An original of the Agreement is maintained in the offices of both Grantor and Grantee.

This Memorandum shall not be deemed to enlarge, diminish, restrict or change the rights of any of the parties to said Agreement but is for the purpose of giving record notice of the existence of the Agreement only.

This Memorandum is signed as of the date of each of the respective acknowledgments below, but is effective for all purposes as of the Effective Date of the Agreement, as stated above.

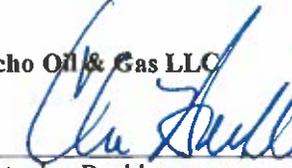
GRANTOR:

COG Operating LLC

By: 
Christopher Boehler
Attorney-in-Fact *B.R.S.*

OSE DTI ROSWELL NM
16 DEC '24 AM 8:51

Concho Oil & Gas LLC

By: 
Christopher Boehler
Attorney-in-Fact *B.R.S.*

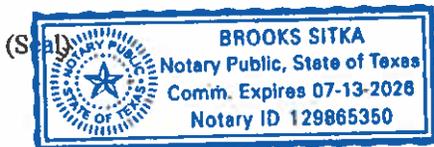
(Cont'd)

Exhibit D to Injection Well Access and Operation Agreement

NOTARY ACKNOWLEDGEMENT

STATE OF Texas)
)
COUNTY OF Midland)

This instrument was executed and acknowledged before me on 11-14-2024 (date)
by Christopher Boehler on behalf of COG Operating LLC and Concho Oil & Gas LLC.



Brooks Sitka
Signature of Notary
My commission expires on: 7-13-2026

GRANTEE:

HF SINCLAIR NAVAJO REFINING LLC

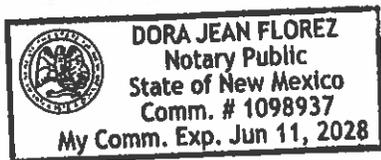
By: Travis G
Name: Travis Gibo
Title: VP of Ops & Refinery Manager

NOTARY ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
)
COUNTY OF Eddy)

This instrument was executed and acknowledged before me on 10-31-2024 (date)
by TRAVIS GIBB on behalf of HF Sinclair Navajo Refining LLC.

(Seal)



Dora Jean Florez
Signature of Notary
My commission expires on: June 11, 2028

OSE DII ROSWELL NM
16 DEC '24 AM 8:52

Project Name: WDW #1 (UICI-8-1) Disposal Well

EXHIBIT A-1
Wellpad Description

Injection Well Information

Current Well Name: HF Sinclair Navajo Refinery LLC WDW #1 (UICI-8-1)

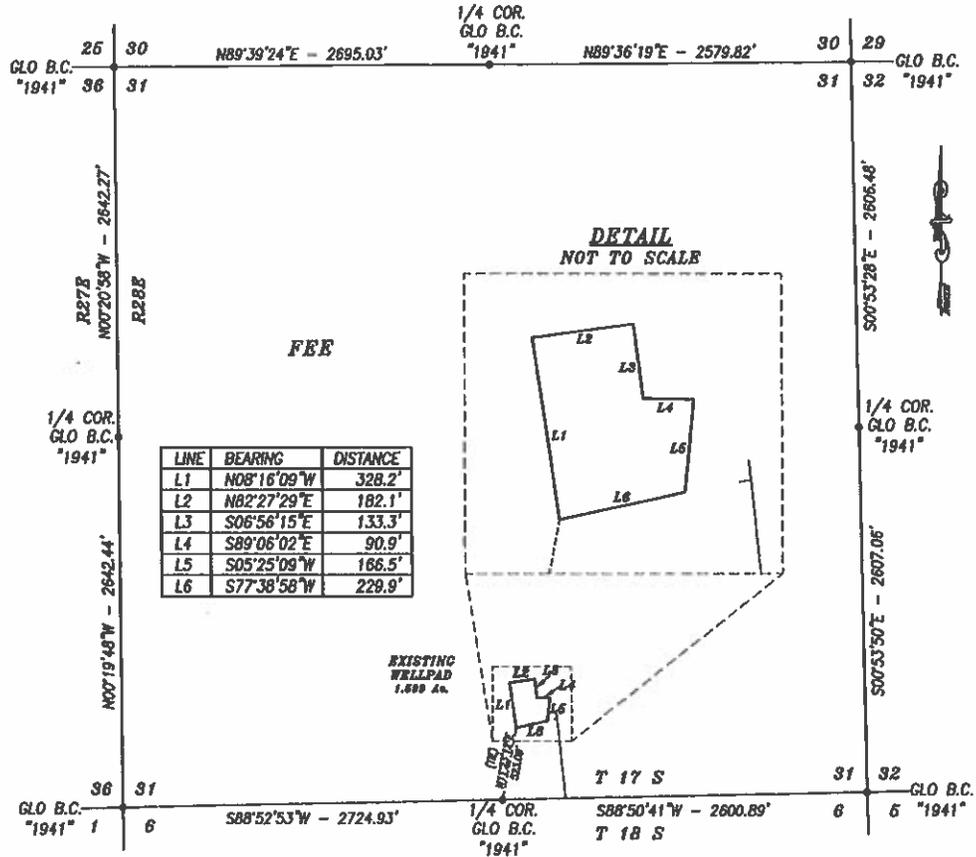
Former Well Name: Mewbourne Oil Company Chalk Bluff 31 State #1

API#: 30-015-27592

OSE DII ROSWELL NM
16 DEC '24 AM 8:52

Exhibit A-1 to Injection Well Access and Operation Agreement

BUSINESS LEASE PLAT
HF SINCLAIR
 AN EXISTING WELLPAD IN
SECTION 31, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



DESCRIPTION

AN EXISTING PAD LOCATED WITHIN FEE LAND IN SECTION 31, TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM, EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

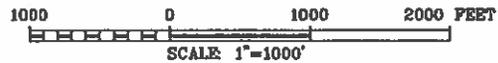
BEGINNING AT THE SOUTHWEST CORNER OF THE EXISTING PAD, WHICH LIES N11°23'12"E 523.09 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION; THEN N08°16'09"W 328.2 FEET; THEN N82°27'29"E 182.1 FEET; THEN S06°56'15"E 133.3 FEET; THEN S89°06'02"E 90.9 FEET; THEN S05°25'09"W 166.5 FEET; THEN S77°38'58"W 229.9 FEET TO THE POINT OF BEGINNING.

SAID PAD CONTAINS 1.599 ACRES.

BASIS OF BEARING:
 BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
 I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

HARCROW SURVEYING, LLC
 2316 W. MAIN ST. ARTESIA, N.M. 88210
 PH: (575) 746-2158
 c.harcrow@harcrowsurveying.com



Chad Harcrow
 CHAD HARCROW N.M.P.S. NO. 17777
 DATE 8/13/24

HF SINCLAIR	
SURVEY OF AN EXISTING WELLPAD LOCATED IN SECTION 31, TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM, EDDY COUNTY, NEW MEXICO	
SURVEY DATE: AUGUST 2, 2024	WELLPAD
DRAFTING DATE: AUGUST 6, 2024	PAGE 1 OF 1
APPROVED BY: CH	DRAWN BY: JH
	FILE: 24-612

OSE DII ROSWELL NM
 16 DEC '24 AMB:92



December 12, 2024

New Mexico Office of the State Engineer
District II
1900 West Second St.
Roswell, NM 88201

Re: Permit Application to Drill Monitor Wells for HF Sinclair Navajo Refining LLC,
Artesia, NM

Please find enclosed WR-07 Application for Permit to Drill Monitoring Wells for HF Sinclair Navajo Refining LLC, Artesia, NM. The enclosed packet includes the application to drill three monitoring wells. Daniel B. Stephens & Associates, Inc. (DBS&A) has been contracted by HF Sinclair Navajo Refining LLC to oversee the installation of these monitor wells. A location figure is provided with the application to drill. Locations for monitor wells has been approved by land owner (COG Operation LLC and Concho Oil & Gas LLC), see enclosed land access letter.

Enclosed: Land access approval letter from COG Operation LLC and Concho Oil & Gas LLC and the monitor well proposed location area map. This application is for 1 monitoring well - WDW-1-MW-1.

DBS&A is hoping to receive a timely response. Please call me at (505) 822-9400 or Case Hinkins if you have questions or if need additional information. Your time and effort are greatly appreciated.

Sincerely,

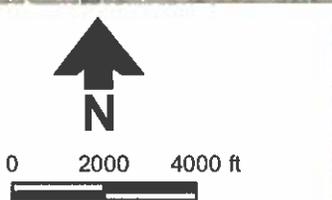
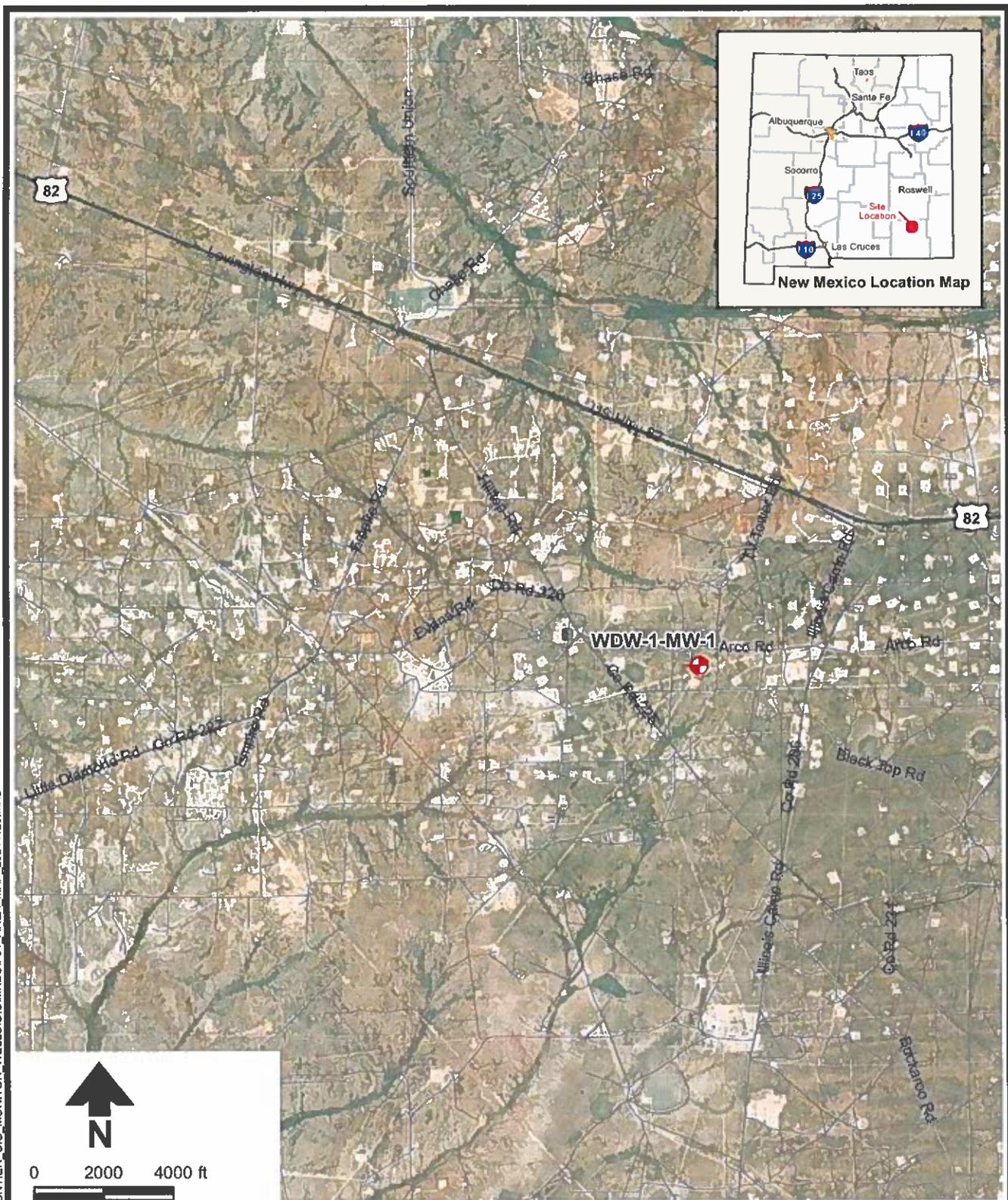
DANIEL B. STEPHENS & ASSOCIATES, INC.

OSE DII ROSWELL NM
16 DEC '24 AM 8:52

Elizabeth Bastien
Hydrologist/Project Manager

Enclosure
cc: Case Hikins (HF Sinclair Navajo Refining)

S:\PROJECTS\B22.1134_HOLLYFRONTIER_UIC_MONITOR_WELLS\GIS\MXDS\F01_AREA_MAP_20241120.MXD



Explanation

- Underground Injection Control Well (UIC)

Base image source: ESRI et al.

DSE DIX ROSWELL NM
15 DEC '24 AM 8:51

11/21/2024 DB22.1134

**HF SINCLAIR NAVAJO REFINERY
Area Map**

Figure 1

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ROSWELL OFFICE

OFFICIAL RECEIPT NUMBER: 2 - 47560 DATE: 12-16-2024 FILE NO.: TBD
 TOTAL: 5.00 RECEIVED: Five DOLLARS CHECK NO.: 106698 CASH: _____
 PAYOR: Daniel Stephens & Assoc. ADDRESS: 10020 Beahmory Rd. So. CITY: Alto STATE: N.M.
 ZIP: 87109 RECEIVED BY: DNAT

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

- 1. Change of Ownership of Water Right \$ 2.00
- 2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$ 125.00
- 3. Application to Repair or Deepen 72-12-1 Well \$ 75.00
- 4. Application for Replacement 72-12-1 Well \$ 75.00
- 5. Application to Change Purpose of Use 72-12-1 Well \$ 75.00
- 6. Application for Stock Well/Temp. Use \$ 5.00

- 7. Application to Appropriate Irrigation, Municipal, or Commercial Use \$ 25.00
- 8. Declaration of Water Right \$ 1.00
- 9. Application for Additional Point of Diversion Non 72-12-1 Per Well \$ 25.00
- 10. Application to Change Place or Purpose of Use Non 72-12-1 Well \$ 25.00
- 11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water \$ 50.00
- 12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water \$ 50.00
- 13. Application to Change Point of Diversion of Non 72-12-1 Well \$ 25.00
- 14. Application to Repair or Deepen Non 72-12-1 Well \$ 5.00

- 15. Application for Test, Expl. Observ. Well \$ 5.00
- 16. Application for Extension of Time \$ 25.00
- 17. Proof of Application to Beneficial Use \$ 25.00
- 18. Notice of Intent to Appropriate \$ 25.00

B. Surface Water Filing Fees

- 1. Change of Ownership of a Water Right \$ 5.00
- 2. Declaration of Water Right \$ 10.00
- 3. Amended Declaration \$ 25.00
- 4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water \$ 200.00
- 5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water \$ 200.00
- 6. Application to Change Point of Diversion \$ 100.00
- 7. Application to Change Place and/or Purpose of Use \$ 100.00
- 8. Application to Appropriate \$ 25.00
- 9. Notice of Intent to Appropriate \$ 25.00
- 10. Application for Extension of Time \$ 50.00
- 11. Supplemental Well to a Surface Right \$ 100.00
- 12. Return Flow Credit \$ 100.00
- 13. Proof of Completion of Works \$ 25.00
- 14. Proof of Application of Water to Beneficial Use \$ 25.00
- 15. Water Development Plan \$ 100.00
- 16. Declaration of Livestock Water Impoundment \$ 10.00
- 17. Application for Livestock Water Impoundment \$ 10.00

C. Well Driller Fees

- 1. Application for Well Driller's License \$ 50.00
- 2. Application for Renewal of Well Driller's License \$ 50.00
- 3. Application to Amend Well Driller's License \$ 50.00

D. Reproduction of Documents

- @ 0.25¢ \$ _____
- Map(s) @ \$3.00 \$ _____

E. Certification

\$ _____

F. Other

\$ _____

G. Comments:

Mail

All fees are non-refundable.



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
DISTRICT II
TELEPHONE: (575) 622-6521 FAX: (575) 623-8559

ELIZABETH K. ANDERSON, P.E.
STATE ENGINEER

1900 West Second Street
Roswell, New Mexico 88201

February 27, 2025

HF Sinclair Navajo Refining LLC
c/o Daniel B. Stephens & Associates Inc
6020 Academy Road NE, Suite 100
Albuquerque, NM 87109

RE: *Artesian Well Plan of Operations* for well No. RA-13536-POD1

Greetings:

Attached is your copy of the Artesian Plan of Operations for the above described project.

The proposed method of operations for the subject well is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer subject to the following Conditions of Approval:

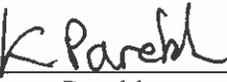
- Schedule 80 PVC casing is approved by the Office of the State Engineer.
- The Schedule 80 PVC casing shall be centralized at a minimum of every 60 feet.
- Cement-Bentonite slurry is approved to seal the annular space.
- The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons of water per 94-lb sack of Type I/II Portland cement PLUS 0.65 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

1900 WEST SECOND STREET, ROSWELL, NM 88201
(575) 622/6521 FAX (575) 623-8559

- Page 188 of 515
- Annular grout shall be placed in the annular space to the ground surface in a manner that prevents inter-aquifer exchange of water and to prevent loss of hydraulic head between geologic zones.
 - Any deviation from this plan must obtain an approved variance from the District II office prior to implementation.

If you have any further questions, please contact the Office of the State Engineer on 575-622-6521.

Sincerely,



Kashyap Parekh
Water Resources Manager I



ARTESIAN WELL PLAN OF OPERATIONS and CONTAMINATION PRESENT

(for new well construction and repairs)



An Artesian Well Plan of Operations shall be filed and approved by the Office of the State Engineer prior to commencing the drilling of an artesian well or when low-quality or contaminated water is present in accordance with Chapter 72, Article 13 NMSA 1978 and 19.27.4.30.A(4) NMAC.

Artesian Well Plan of Operations

Contamination Present

1. Applicant(s)

OSE POD Number:	Well Tag ID No.:
Name: HF Sinclair Navajo Refining LLC	Name:
Contact Or Agent <input type="checkbox"/> Check if Agent Case Hinkins	Contact Or Agent <input type="checkbox"/> Check if Agent
Mailing Address: 501 East Main Street	Mailing Address:
City: Artesia State: NM	City: State:
Zip: 88210	Zip:
Phone: <input type="checkbox"/> Cell <input type="checkbox"/> Home	Phone: <input type="checkbox"/> Cell <input type="checkbox"/> Home
Phone Work: (575) 746-5487	Phone Work:
E-Mail: CaseHinkinsHFSinclair.com	E-Mail:

2. Background Information

Do artesian wells exist near the proposed well?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, provide the OSE POD Number(s):	
If yes, what is the completed depth to water in nearby wells?	Feet
If yes, what the top depth of the artesian Aquifer?	Feet
Are there flowing artesian wells in the area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If flowing artesian wells exist, provide the OSE POD Number(s) in the space below:	
Does low quality (contaminated) water exist in the area*?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, what is the estimated bottom depth of the Low Quality water?	Feet
If yes, attach groundwater quality analyses?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What type of drilling method are you employing? Sonic Drilling	
Specialty equipment you may be using:	

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3. Well Information

Detailed Wellbore diagram attached including but not limited to estimated formation tops.
 Diagram needs to match all information presented in the Artesian Well Plan of Operations.

GPS Well Location (NAD 83)			
Latitude:	32	Deg.	47 Min. 6.27 Sec
Longitude:	-104	Deg.	12 Min. 50.44 Sec
County:	Eddy County		

4. Well Construction Information

Will the flowlines be connected below ground surface? Yes No
 Pitless adapter is required when flow line breaches the casing.
 Will there be pitless installed? Yes No

Item	Surface Casing	Artesian/ Contamination Casing	Production/ Open hole
Borehole Diameter (inches)			8.5
Proposed Bottom Depth (Feet)			500
Casing Type and Grade			PVC Sch 80
Casing Weight (lbs/ft)			2.75
Casing ID (inches)			3.79
Casing Wall Thickness (inches)			0.34
Casing OD (Inches)			4.5 4-47
Casing Coupler Type			Flush treaded
Coupler OD (Inches)			NA
Centralizer type (Bow, rigid, Steel Spring, etc.)			Spring bow latch-on
Centralizer Make & Model			TBD
Centralizer Spacing (Feet)			60
Centralizer OD (Inches)			NA
Number of Bands (Steel Spring)			NA
Maximum Offset from Casing (Steel Spring) (Inches)			NA
Shoe Make			NA
Shoe Model			NA
Permanent Filter Pack Feed OD (inches)			NA
Permanent Filter Pack Feed Coupler OD (Inches)			NA

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Annular Sealant			
	Surface Casing	Artesian/ Contamination Casing	Production/ Open hole
Top of Annular Sealant (Feet)			20
Base of Annular Sealant (Feet)			480
Proposed Volume of Annular Sealant (units) ¹			4.8 cubic yards
Proposed Sealant Overage			None
Cement Type			Cement-bentonite slurry w/ Type 1 cement
Method of Sealant Placement			Terrmie pipe
Cement Additives:	Surface Casing	Artesian/ Contamination Casing	Production/ Open hole
% Bentonite			5%
Parts Sand /94 lb sk			NA
%CaCl			NA
Other additives			NA
Water Demand (gal/94 lb-sk cement)			6.5

5. Additional Information including variance requests (in accordance with 19.27.4.37 NMAC).

1) Cement-Bentonite Slurry from 480 to 20 feet below ground surface (bgs): per 94-pound sack of Type I cement add 5% pre-hydrated bentonite and 8.45 gallons water (5.2 gallons water + 0.65 gallons per each 1% of bentonite)
 2) Neat cement from 20 feet bgs to 2 feet bgs (6 gallons water per 94 pound sack of Type I cement)
 3) Native backfill: 2 feet bgs to ground surface

$(0.005454 \cdot (8.5^{(2)} - 4.5^{(2)}) \cdot 460) / 27 = 4.8$ cubic feet of annular space for cement-bentonite slurry
 0.3 cubic feet for neat cement

At the request of New Mexico Oil Conservation Division (OCD), HF Sinclair Navajo Refining llc is investigating the potential presence of groundwater near their underground injection control (UIC) wells. The field investigation includes watching for perched and regional groundwater and if present constructing a monitoring well for collection of water level and chemical data.

Artesian conditions and groundwater contamination is not expected.
 Casing and screen will be the production casing.

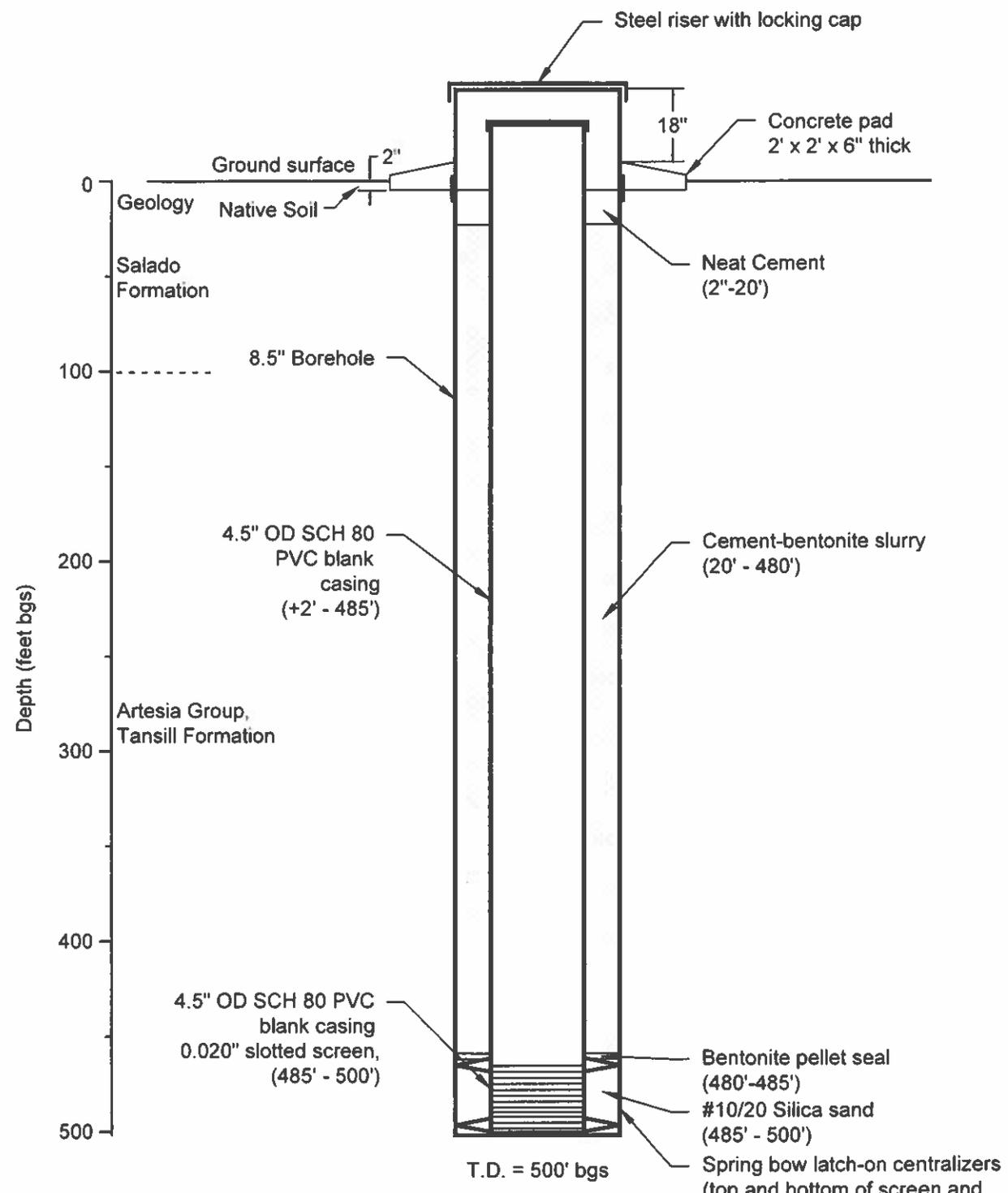
No proposed sealant overage is expected.
 Cement and annular seal will be topped off to ground surface.

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¹ Calculate the proposed volume of sealant as accurately as possible. The following link to GeoPro Water Well Grout Volume Calculator may be used - https://geoproinc.com/resources/water_well.html

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S:\PROJECTS\822.1334_HOLLYFRONTIER_UIC_MONITOR_WELLS\CAD\PRODUCTION\MONITOR_WELL_COMPLETION.DWG



- Notes:
1. Values are preliminary estimates
 2. Construction will be based on field observations
 3. Drawing is not to scale
 4. Dimensions are outside diameter
 5. bgs = Below ground surface
 6. O.D. = Outside diameter
 7. T.D. = Total depth
 8. PVC = Polyvinyl chloride
 9. SDR = Standard Dimension Ratio
 10. SCH = Schedule
 11. ' = Feet
 12. " = Inches

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HF Sinclair Navajo Refining UIC



WDW-1-MW-1 Monitor Well Design

Figure 1

Appendix E

Borehole and Well Logs

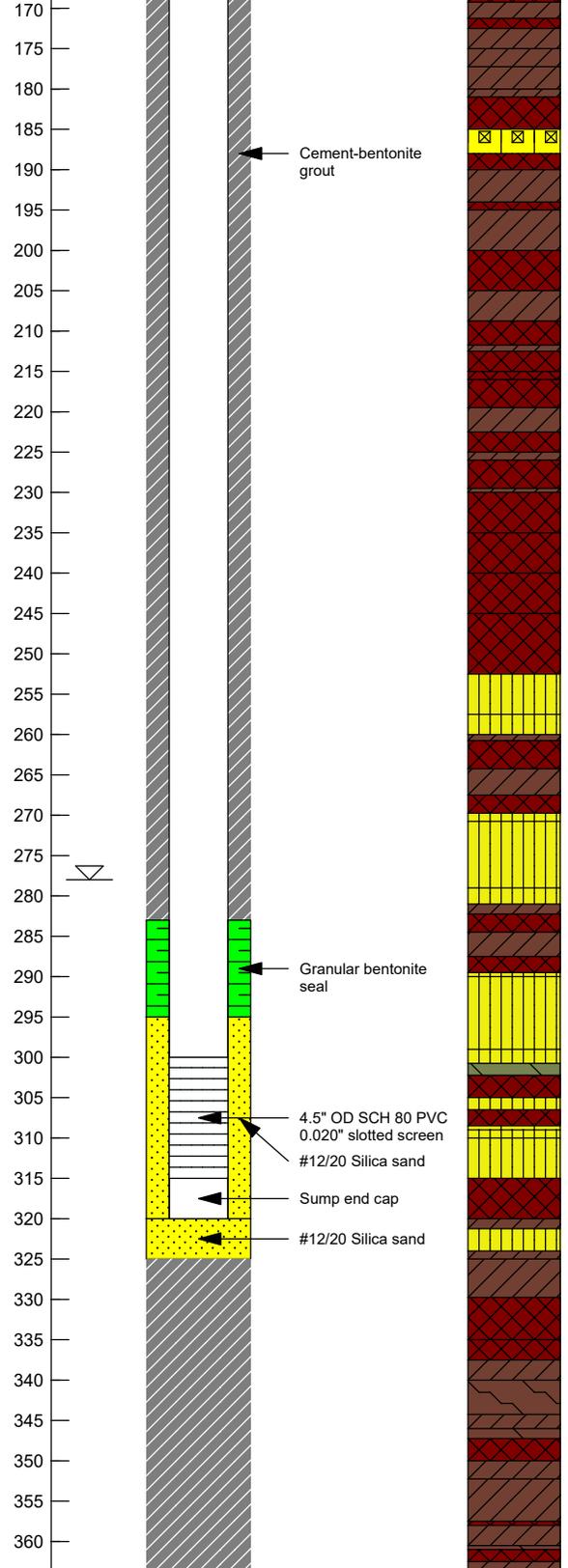
S:\Projects\DB22.1334_HollyFrontier_UIC_Monitor_Wells

Graphic Log		USCS	Lithology Interval	Comments and Lithology
-5		SP	2-6.4	Hydrovac fill, pink (7.5 yr 7/3), sand with limestone (1.5 cm), sand is rounded to well rounded, fine to medium grained, dry, well sorted, loose
0		GP	6.4-7	Caliche, pinkish white (7.5 yr 8/2), very fine to fine grained (pulverized), subrounded, well sorted, very hard, dry
5		SW	7-15	Sandy silt with caliche, pinkish white (7.5 yr 8/2), sand with pulverized fines, rounded to well rounded; Caliche (1.5 in), poorly sorted; Silty sand is non-cohesive, loose, dry; Caliche is cohesive, hard, dry, very high dry strength
10		SP	15-16.75	Silty sand, light brown (7.5 yr 6/4), with little caliche (1 in), trace limestone (2 cm); Silty sand is loose, moderately sorted, very fine to fine grained (pulverized), well rounded, dry
15		SP	16.75-17.5	Sandy silt, white (7.5 yr 6/4), with caliche (2 in), rounded, very fine to fine grained (pulverized), well sorted, hard, dry
20		SP	17.5-20	Silty sand, pinkish white (7.5 yr 8/2), with little caliche, very fine to fine grained (pulverized), rounded to well rounded, loose, dry; Caliche (1 in), very fine grained (pulverized), cohesive, hard, dry
25		GC	20-25	Silty, clayey sand, white (7.5 yr 8/1) and very dark gray (7.5 yr 3/1), with trace limestone (up to 2 in), some clay, sand is subrounded to rounded, very fine to fine grained (pulverized), loose, low-med plasticity, weak ribbon, dry, slightly sticky when wet; Limestone is rounded, smooth, hard
30		GP	26.5-27.5	Caliche gravel (2 in), very pale brown (10 yr 8/3), with little sand, fine grained, rounded, well sorted, loose, dry; Caliche, fine, rounded, consolidated grains, well sorted, strong HCL reaction, hard, dry
35		SP	27.5-30.5	Silty sand, very pale brown (10 yr 8/4), with little caliche; Sand is very fine to fine grained (pulverized), well sorted, rounded to well rounded, loose
40		GP	30.5-32	Caliche gravel, reddish yellow (7.5 yr 6/6), with some clayey sand, fine grained, sub rounded to rounded, well sorted, non to low plasticity, slightly sticky when wet with weak ribbon; Caliche, (3 in), dry
45		GC	32-34.75	Clayey, silty sand, very pale brown (10 yr 8/4), less clay than above and few caliche (1 in), fine grained (pulverized), rounded, well sorted, non to very low plasticity, weak ribbon, loose, dry
50		CL	34.75-36.9	Claystone grading into sandy clay, pink (7.5 yr 7/3), loose, dry, when wet - non to low plasticity, slightly sticky, weak ribbon, very fine to fine grained (pulverized), rounded, well sorted; Claystone is strong brown (7.5 yr 4/6), cohesive, firm, medium dry strength
55		CL	36.9-37.5	Claystone, red (2.5 yr 4/6), with some sandy clay, low to med plasticity, weak ribbon; Sandy clay is fine grained, rounded, well sorted, little evaporates in claystone, consolidated, soft to firm, low dry strength, dry to slightly damp
60		CL	37.5-40.1	Claystone, red (2.5 yr 4/6), with few sand, consolidated soft, ribbons without water, low to med plasticity, weak ribbon, slightly sticky when wet, low dry strength, dry to slightly damp, few evaporates; Sand is fine grained, well sorted, and rounded
65		CL	40.1-41.5	Sandy claystone, red (2.5 yr 4/6), with large streaks of evaporate; possibly anhydrite, white (wp N/9.5), very soft, no reaction to HCL, very fine grained (pulverized), rounded, well sorted and platy; Sand is pink (7.5 yr 7/4), loose, well sorted with some anhydrite
70		CL	41.5-42.5	Sandy claystone, red (2.5 yr 4/6), with large streaks of anhydrite (<above), white (wp N/9.5), very soft, no reaction to HCL, very fine grained (pulverized), rounded, well sorted, and platy
75		CL	42.5-44.5	Claystone, reddish brown (2.5 yr 4/4), with little sand, little interbedded evaporates ranging in color from white to gray; Claystone is cohesive, soft, with low dry strength, dry to slightly damp, low plasticity, weak ribbon; Sand is well sorted, rounded and fine grained (pulverized)
80		CL	44.5-48.5	Sandy silty clay, white (7.5 yr 9/1), loose, dry, very fine to fine grained (pulverized), well rounded, well sorted, when wet - med plasticity, weak ribbon, contains few anhydrite, (2 in), dry
85		ANH	48.5-50	Anhydrite (pulverized into sandy silt), white (wp 9.5/N), very fine to 2 in, well rounded, well sorted, very loose, dry, no HCL reaction
90		CL	50-51.75	Claystone, red (2.5 yr 4/6), with some evaporates, dry, cohesive, soft, low dry strength, when wet forms ribbon, low to med plasticity, weak ribbon; Evaporate is white, no visible to very fine grain (pulverized), no HCL reaction
95		CL	51.75-55	Claystone, dark red (2.5 yr 3/6), cohesive, firm to stiff, med dry strength, dry to slightly damp, little evaporates, low plasticity, weak ribbon
100		CL	55-57.5	Silty claystone, red (2.5 yr 4/6), interbedded with evaporates and little anhydrite, cohesive, soft, low dry strength, dry, low plasticity, weak ribbon; Evaporate is white, low dry strength, cohesive, very soft, very fine grained (pulverized), well sorted and rounded
105		ANH	57.5-59	Anhydrite (pulverized into sandy silt), white (wp 9.5/1) to pinkish white (wp 8/2), very fine grained up to 2 in, well rounded, well sorted, dry, loose
110		CL	59-60	Claystone interbedded with evaporate (up to 2 cm), cohesive, firm, low dry strength, dry to slightly damp; Evaporate is white to gray, very fine grained (pulverized), rounded, well sorted; Sandy silt, loose, when wet - slightly sticky
115		ANH	60-62.5	Anhydrite (pulverized into sandy silt), white (wp 9/1), loose, dry, very fine grained up to 1.5 in, well rounded, well sorted
120		CL	62.5-69.5	Claystone interbedded with evaporate (2 cm), cohesive, firm, low dry strength, dry to slightly damp; Evaporate is white to gray, very fine grained (pulverized), rounded, well sorted, soft, loose, sandy silt
125		ANH	69.5-70	Anhydrite with interbedded claystone and little clayey silt
130		CL	70-71.75	Claystone, red (2.5 yr 4/6), medium dry strength, cohesive, soft to firm, dry, with some evaporates; Evaporate is white (wp 9.5/N), firm to stiff, non-visible to very fine grained (pulverized), rounded, well sorted
135		CL	71.75-75	Claystone, red (2.5 yr 4/6), few evaporates, cohesive, soft, low plasticity, weak to flexible ribbon, dry to slightly damp
140		CL	75-76.75	Claystone, red (2.5 yr 4/6), with some evaporates, low to med plasticity, flexible ribbon, cohesive, soft, dry; Evaporate is white (wp 9.5/N), firm to stiff, non-visible to very fine grained, rounded, well sorted
145		CL	76.75-79	Claystone, red (2.5 yr 4/6), with few specks of pale green (gley1 6/1) ~1 cm, dry, cohesive, soft to firm, low-med plasticity, weak ribbon
150		ANH	79-80	Anhydrite, light red (10 yr 6/6), in clayey silt, pink (2.5 yr 8/3), dry, loose, very fine grained, well sorted, rounded, anhydrite has no visible grains
155		CL	80-84	Claystone, Reddish brown (2.5 yr 4/4), with trace specks of pale green (gley1 6/1), low dry strength, low-med plasticity, med ribbon strength
160		ANH	84-86	Anhydrite, light red (10 yr 7/6), cohesive, firm, low dry strength, very fine grained, rounded, moderate to well sorted, in sandy silt (pulverized)
165		ANH	86-90	Anhydrite, in mostly pulverized sandy silt, pinkish white (10 yr 8/2) to light red (10 yr 7/6), no visible grains but slightly platy, cohesive, hard, very high dry strength, dry; Sandy silt is very fine to fine grained (pulverized), well sorted, rounded to well rounded, when wet - slightly sticky
170		ANH	90-92	Anhydrite, mostly light reddish gray with light red streaks (2.5 yr 7/1 & 6/6), in pulverized sandy silt; Anhydrite is cohesive, very hard, high dry strength; Silt is white (wp 9/1), loose, dry, very fine grained (pulverized), subrounded, well sorted
175		CL	92-93.5	Claystone, red (2.5 yr 4/6), cohesive, firm, med dry strength, few evaporates, translucent, very fine grains, subrounded, and platy anhydrite
180		CL	93.5-95	Claystone, red (2.5 yr 4/6), cohesive, soft, low dry strength, low to med plasticity, weak to med strength ribbon, trace platy anhydrite in clay, few evaporates, little greenish gray (gley2 6/10) spots (1 cm), little clayey silt, pink (2.5 yr 8/4), fine grained, rounded, well sorted
185		CL	95-95.5	Claystone, red (2.5 yr 4/6), less evaporates than above, claystone is cohesive, firm, med dry strength
190		ANH	95.5-96.75	Anhydrite, white (5 yr 8/1), in pulverized sandy silt with few clay; Anhydrite is cohesive, hard, has few light red streaks (10 yr 6/6); Silt is loose, white (7.5 yr 9.5/1), well sorted, rounded, very fine, slightly sticky when wet
195		CL	96.75-99	Claystone, red (10 yr 9/6), with greenish gray spots (1 cm); Clay is soft, cohesive, med dry strength, low to med plasticity, weak to flexible ribbon
200		CL	99-101.5	Claystone, red (10 yr 9/6), with greenish gray spots (<above), interbedded platy anhydrite (1 in), white (5 yr 8/1), cohesive, hard
205		CL	101.5-102	Claystone with grayish olive (10 yr 5/2) clay, white (wp 9.5/N) evaporates, cohesive, soft to firm, low dry strength, low plasticity, weak ribbon
210		CH	102-104	Claystone, red (2.5 yr 4/8), trace evaporates, med to high plasticity, flexible to strong ribbon, slightly damp to damp
215		CL	104-106	Claystone, reddish brown (2.5 yr 4/4), with interbedded anhydrite, platy, trace grayish olive spots, cohesive, soft, low plasticity, weak ribbon
220		CL	106-107.5	Claystone with evaporates (2 cm), white (wp 9.5/N), no visible grains to very fine grained, few platy anhydrite (3 in) interbedded in claystone
225		CL	107.5-110	Claystone with evaporates (<above), white (wp 9.5/N), no visible grains to very fine grained, few platy anhydrite (2 in) interbedded in claystone; Clay is firm with med dry strength, cohesive, low plasticity, weak ribbon, dry
230		CL	110-116	Claystone, red (2.5 yr 4/6), few greenish gray (gley1 6/1) spots (2mm), progressively more evaporates as we reach the base of layer; Clay is cohesive, soft, low plasticity, weak ribbon, slightly damp at top; Evaporates, fine grained (pulverized), rounded, well sorted, white (wp 9.5/N)
235		CL	116-119	Claystone, red (2.5 yr 4/6), little interbedded anhydrite (1cm), little spots of greenish gray (gley1 6/1) (1mm); clay is cohesive, soft, med dry strength, low-med plasticity, weak ribbon, dry to slightly damp
240		CL	119-121.5	Claystone, dark red (2.5 yr 3/6), cohesive, soft to firm, med dry strength, low plasticity, weak ribbon, dry, little greenish gray spots
245		ANH	121.5-125	Anhydrite, red (7.5 yr 4/6) with white streaks (wp 9.5/N), in pulverized sandy silt, no visible grains but platy; silt is light pink (7.5 yr 8/2) and pale red (7.5 yr 7/4) at 124.75', loose, very fine, rounded, well sorted
250		CL	125-128.5	Claystone, dark red (2.5 yr 3/4), with interbedded anhydrite and evaporates; Claystone, slightly damp to damp, med plasticity, weak to med strength ribbons, cohesive, soft; Anhydrite is cohesive, hard, slightly translucent to light red (2.5 yr 6/6), up to 1 in, platy
255		CL	128.5-130	Claystone, reddish brown (2.5 yr 4/3), dry to slightly damp, cohesive, soft, low to med plasticity, low to med strength ribbon, slightly flexible
260		CL	130-134.25	Claystone, reddish brown (2.5 yr 4/3), with interbedded evaporates (2 cm), dry to slightly damp, cohesive, soft, low plasticity, low strength ribbon
265		CL	134.25-139	Claystone, reddish brown (2.5 yr 4/3), with interbedded evaporates (2 cm), dry to slightly damp, cohesive, soft, low plasticity, low strength ribbon
270		CL	139-141.75	Claystone, dark red (2.5 yr 3/6), with anhydrite; Claystone is dry to very slightly damp, low to med plasticity, weak ribbon, soft; Anhydrite (1 in),

Cement-bentonite grout

Granular bentonite seal

4.5" OD SCH 80 PVC blank casing



170	ANH	141.75-143.5	white (wp 9.5/N) to light red (2.5 yr 7/6), platy, hard, no HCL reaction; Selenite crystals, translucent, flaky, platy
175	CL	143.5-145	Anhydrite, red (10 yr 4/8), in pulverized sandy silt, pink (10 r 8.4); Anhydrite (up to 7 in), platy
180	ANH	145-147	Claystone, dark red (2.5 yr 3/6), with anhydrite layer; Claystone, dry, low to med plasticity, weak ribbon, soft, some translucent plates of
180	CL	147-147.5	anhydrite; Anhydrite (6 in), light red (2.5 yr 7/6) and white (wp 9.5/N), middle anhydrite layer is platy, translucent to light gray (10 r 7/1), hard
185	CL	147.5-151	Claystone, dark red (10 yr 3/4), low plasticity, cohesive, soft, med dry strength, weak ribbon, dry to slightly damp, interbedded with evaporates;
185	CL	151-155	Evaporates are white (wp 9.5/N), very fine grained (pulverized), rounded, well sorted, low dry strength
190	CL	155-162.5	Claystone, red (2.5 yr 5/6), low plasticity, weak to med ribbon, dry to slightly damp, little yellowish brown spots (10 yr 5/8), trace anhydrite (1 cm)
190	CL	162.5-165	Claystone, red (2.5 yr 4/6), dry to slightly damp, soft to firm, cohesive, med dry strength, low plasticity, weak ribbon, few pale green (Gley 1 6/2)
195	CL	165-167.5	spots (1 cm) and little interbedded anhydrite (2 in); anhydrite is white (wp 9.5/N) to pale red (10 r 6/4), platy
195	CL	165-167.5	Claystone, dark red (2.5 yr 3/4), with interbedded anhydrite and some pinkish white pulverized silt, rounded, well sorted, very fine grained, dry,
200	ANH	167.5-169.25	low plasticity, weak ribbon, cohesive, soft, low to med dry strength; Anhydrite is mostly light reddish gray (2.5 yr 7/1), platy, hard
200	CL	169.25-171.25	Anhydrite, pinkish gray (7.5 yr 7/1), in pulverized silt, white (wp 9.5/N), cohesive, (7 in), hard, platy
205	ANH	171.25-172.5	Claystone, dusky red (10 yr 3/4), interbedded platy translucent anhydrite; Claystone, low plasticity, weak ribbons, cohesive, soft, med dry
205	CL	172.5-175	strength, dry to slightly damp; Anhydrite (up to 7 in), is translucent to pinkish gray (7.5 yr 7/1), cohesive, hard, platy, selenite crystals
210	CL	175-177.25	Anhydrite, white (wp 9.5/N) to light gray (10 yr 7/1), in pulverized silt, white (wp 9.5/N); Anhydrite is cohesive, hard, platy
210	CL	175-177.25	Claystone, weak red (10 r 5/4), with some anhydrite, (1 in), platy, translucent to light gray (10 r 7/1); Claystone, low plasticity, weak ribbon, soft
215	CL	177.25-180	Claystone, red (2.5 yr 4/6), cohesive, soft, low dry strength, non to low plasticity, weak ribbon, dry to slightly damp, few evaporates; Evaporates,
215	CL	180-181	white (wp 8.5/N), very fine grained (pulverized), well sorted, slightly platy, subrounded, trace selenite crystals (1 mm), translucent, subangular
220	ANH	181-185	Claystone, red (2.5 yr 4/6), interbedded in white (wp 9.5/N) to pinkish white (5 yr 8/2) anhydrite, clay layer (4 in); Claystone is cohesive, soft, low
220	ANH	181-185	dry strength, non to low plasticity, weak ribbon, dry to slightly damp; Anhydrite, cohesive, soft to firm, low to med dry strength
225	GM	185-188	Claystone, reddish brown (5 yr 4/4), dry to slightly damp, cohesive, firm to stiff, med dry strength, little evaporates
225	ANH	188-190	Anhydrite, translucent to white (wp 9.5/N) to light reddish brown (5yr 6/3), interbedded with evaporates and claystone layer (.75 in thick), reddish
230	CL	190-194	brown (5 yr 5/4), platy with a silty luster, cohesive, very hard
230	ANH	194-195	Sandy gravely claystone, yellowish brown (10 yr 5/4), slightly damp to damp, cohesive, low dry strength, fine to coarse grained, mod to well sorted
235	ANH	195-200	Anhydrite, translucent to white (wp 9.5/N) to light reddish brown (5 yr 6/3), clay, yellowish red (5 yr 5/5) spots; Claystone, dry to slightly damp,
240	CL	200-205	cohesive, firm to stiff, med dry strength; Anhydrite (3 in), platy with a silty luster, cohesive, very hard
240	CL	200-205	Claystone, dark reddish brown (5 yr 3/4), dry to slightly damp, cohesive, stiff, med dry strength, few interbedded evaporates, white (wp 9.5/N),
245	ANH	205-208.75	between 203.5-204.5', very fine grained (pulverized), well sorted, rounded
245	CL	208.75-211.75	Claystone, dark reddish brown (5 yr 3/4), dry to slightly damp, cohesive, stiff, med dry strength
250	ANH	211.75-212.5	Anhydrite (6 in), translucent to reddish gray (5 yr 5/2), platy, silty luster with little white (wp 9.5/N) evaporates, hard, no HCL reaction
250	ANH	212.5-215	Claystone, reddish brown (5 yr 5/4), slightly damp, low to med plasticity, slightly flexible ribbon, soft, low dry strength, trace evaporates
255	ANH	212.5-215	Anhydrite, reddish gray (2.5 yr 5/1), thicker plates (.5 cm) with trace selenite layers (3 mm), cohesive, hard; Last 6 inches has yellowish red
255	ANH	215-216	(5 yr 5/6) interbedded clayey sandstone, very fine grained, subrounded, well sorted, hard, med dry strength, slightly sticky when wet, dry
260	CL	216-219.5	Anhydrite, dark gray (7.5 yr 4/1), hard, platy, few selenite crystals, pulverized pinkish gray (7.5 yr 7/2) sandy silt
260	CL	216-219.5	Anhydrite, white (wp 9.5/N), hard, no HCL reaction, in white (wp 9.5/N) sandy silt (pulverized), very fine to coarse grained, moderately sorted,
265	ANH	222.5-225	subrounded to rounded; Sandy silt, pale yellowish pink (7.5 yr 9/2); Anhydrite, red (10 r 4/6) with light gray (10 r 7/1) interbedded layers
265	CL	225-226	Claystone, dark reddish brown (5 yr 3/4), little evaporates and little selenite crystals, dry, cohesive, firm, med dry strength, non to low plasticity,
270	CL	226-229.5	weak ribbon; Anhydrite (2 in), reddish gray (2.5 yr 5/1), massive, and evaporates, white (wp 9.5/N)
270	ANH	229.5-230	Anhydrite, white (10 r 8/1) to reddish gray (10 r 6/1), with selenite crystals, cohesive, hard, very fine grained crystals, well sorted, sub rounded
275	ANH	230-235	Claystone, dark reddish brown (5 yr 3/2), with interbedded (2 mm) translucent anhydrite; Claystone is cohesive, very stiff, med to high strength
275	ANH	235-240	Anhydrite, yellowish red (5 yr 5/6) and dark gray (5 yr 4/1), in white (wp 9.5/N) pulverized silt, platy, cohesive, very hard, shiny, silty luster
280	ANH	240-245	Claystone, reddish brown (5 yr 5/4), dry, interbedded with little sandy, gravel-sized anhydrite, low to med dry strength
280	ANH	245-252.5	Anhydrite, grey (gley1 6/N), platy, low to med dry strength, slightly rough, crumbly
285	ML	252.5-257.5	Anhydrite, white to light gray (gley1 8/N & 7/N) (possibly gypsiferous siltstone), cohesive, very hard, slightly platy, very fine grains,
290	ML	257.5-260	slightly rough, subangular, well sorted
295	CL	260-260.75	Anhydrite (possibly gypsiferous siltstone), white to light gray (gley1 8/N & 7/N), cohesive, crumbly, low dry strength, mod to well sorting,
295	ANH	260.75-264.25	subangular, fine grained, interbedded layers of light gray (gley1 8/N)
300	ANH	264.25-267.5	Anhydrite, light gray (5 yr 7/1), interbedded siltstone, very fine, subrounded, well sorted; Anhydrite, massive, gray (5 yr 6/1), cohesive, very hard;
305	ANH	267.5-269.75	mostly pulverized into white (wp 9.5/N) sandy silt at 249.5 - 250.25'; Crumbly white (wp 8.5/1) evaporates, very small HCL reaction
310	ML	269.75-270.75	Siltstone, brownish yellow (10 yr 6/6), with interbedded anhydrite; Anhydrite, massive, gray (5 yr 6/1), cohesive, very hard; Siltstone is very fine,
315	ML	270.75-279	very fine, subrounded, well sorted; Dolomite (pulverized) light gray (2.5 yr 7/2), HCL reaction, silty with sand, rough
320	CL	279-281	Siltstone, light gray (10 r 7/1), cohesive, low to med dry strength, interbedded dolomite; Dolomite, reaction to HCL, very fine grained, slightly
325	CL	281-282.25	platy; Layers of other light gray (10 yr 7/2) siltstone, interbedded evaporates, white (wp 9.5/N), very fine (pulverized); Siltstone is slightly porous
330	ANH	282.25-287.5	Claystone, reddish brown (2.5 yr 4/3), in pulverized anhydrite, dry, low dry strength, interbedded with dark gray (5 yr 4/1), crumbly siltstone
335	ANH	287.5-284.5	Anhydrite, translucent to reddish gray (5yr 5/2), cohesive, very hard, platy, no visible grains, no HCL reaction
340	ANH	284.5-289.5	Claystone, brown (7.5 yr 4/4), dry to very slightly damp, cohesive, firm, low to med dry strength, crumbly, few evaporates; Evaporates are white
345	ML	289.5-290	(wp 9.5/N); Anhydrite, white (wp 9.5/N), low dry strength, mostly massive but some plateyness, no HCL reaction
350	ML	290-299	Anhydrite, gray (5 yr 5/1), massive plates, very hard, few fine grains, rounded, well sorted; Plates are pinkish white (5 yr 5/2) to mostly
355	ML	299-300.75	pinkish gray (5 yr 5/2), cohesive, soft, low dry strength, crumbly, neither has HCL reaction
360	DOL	300.75-302.25	Siltstone, light gray (5 yr 7/1), cohesive, hard, slightly rough, few sand - very fine (pulverized), moderately sorted, sub rounded, selenite crystals
			Siltstone, light gray (5 yr 7/1), cohesive, hard, slightly rough, few sand, interbedded with translucent to very pale brown (10 yr 7/4) anhydrite
			Siltstone, white (wp 9.5/N) to light gray, cohesive, very hard, dolomite veins, grades into white (10 yr 8/1) dolomite; Dolomite is crumbly, HCL
			reaction, very fine grained, slightly porous, well sorted, rough, subrounded, low dry strength
			Claystone, dark greenish gray (gley1 4/1), dry to very slightly damp, few light olive (10y 5/4) spots, cohesive, soft, low dry strength, low plasticity,
			weak ribbon; Interbedded with pulverized evaporates, white (wp 9.5/N), platy and fine grained, moderately sorted, subrounded, crumbly
			Anhydrite, gray (7.5 yr 6/1), interbedded evaporates; Anhydrite, slightly platy, cohesive, very hard; Evaporates, white (wp 9.5/N), very fine
			grained (pulverized), well sorted, subrounded with selenite crystals - coarse grained size, translucent
			Claystone, strong brown (7.5 yr 5/6), mostly interbedded evaporates (crumbly) and some anhydrite; Clay is low to med plasticity, med flex ribbon,
			cohesive, very soft, dry to slightly damp; Anhydrite is slightly platy, cohesive, very hard
			Anhydrite, light gray (10 yr 7/1), interbedded white (wp 9.5/N) evaporates, platy, cohesive, crumbly, fine grained (pulverized), well sorted
			Gypsiferous siltstone, cohesive, very hard but will break at weak points, interbedded with thinly plated selenite crystals (1 in)
			Siltstone, gray (2.5 y 6/1), interbedded anhydrite, cohesive, very hard, massive, trace dolomite veins; Grades into siltstone with interbedded
			anhydrite, translucent to pink (7.5 yr 7/3), platy, shiny to silty luster
			Siltstone, light reddish gray to reddish gray (2.5 yr 7/1 & 6/1), massive, hard, very fine to fine grains, well sorted, subrounded, selenite crystals
			Dolomite, light gray (5 yr 7/1), cohesive, firm, low dry strength grades to siltstone; Dolomite is porous, rough, well sorted, subangular, fine grained,
			dry strength; Siltstone is light reddish gray to reddish gray (2.5 yr 7/1 & 6/1), rough, massive, hard, fine grained, well sorted, subrounded
			Anhydrite, translucent to pale brown to gray (2.5 yr 7/3 & 5/1), mostly pulverized, massive, cohesive, very hard
			Clayey siltstone, light gray to light yellowish brown (2.5 y 7/1 & 6/4), interbedded dolomite veins, HCL reaction, cohesive, firm, crumbly
			Anhydrite, translucent to light gray (gley1 7/1), massive but pulverized, cohesive, very hard, scratches with fingernail, some plateyness
			Gravel, sand and pulverized silt, brownish yellow (10 yr 6/6) with few clay, wet, gravel (1.5 in) siltstone with interbedded dolomite; Dolomite, HCL
			reaction, cohesive, firm, low dry strength, crumbly; Sand, fine to coarse, subrounded to rounded, moderately sorted, loose to medium consistency
			Siltstone, light gray (2.5 y 7/2), with mostly interbedded dolomite, HCL reaction, porous, cohesive, firm but crumbly, low dry strength, few selenite
			crystals, cubic/platy, very fine with little medium grains, subrounded, well to moderately sorted, dry to slightly damp
			Clayey siltstone, blueish gray (gley2 5/5 PB), interbedded anhydrite and evaporates; Siltstone is rough, massive and platy, slightly porous, very
			fine grained, well sorted; Anhydrite is translucent to white (wp 9.5/N), platy
			Anhydrite, white (wp 8/N), massive but pulverized, cohesive, very hard, some plateyness
			Claystone, dark reddish brown (5 yr 3/4), interbedded anhydrite, cohesive, firm, dry, medium dry strength, crumbly, non to very low plasticity,
			very weak ribbon; Anhydrite is platy, translucent, silty luster, ranges from med grained size to 1.5 in

365		ML	321.25-324	Sandy siltstone, reddish brown (5yr 5/3 to 4/4), interbedded with little evaporates and anhydrite, well sorted, very fine to fine (pulverized), rounded to subrounded; Grades into gray (5yr 5/1) anhydrite in last .25 ft, massive
370		CL	324-325	Claystone, dark reddish brown (5 yr 3/4), dry to very slightly damp, cohesive, firm, medium dry strength, crumbles when broken, non to very low plasticity, very weak ribbon; Little anhydrite, (2 mm), angular crystals, platy
375		CL	325-329.75	Claystone, strong brown (7.5 yr 4/6), slightly damp, mostly cohesive, soft, low dry strength, non to very low plasticity, weak ribbon, crumbly
375		ANH	329.75-335	Anhydrite, translucent to pinkish gray (7.5 yr 6/2) interbedded evaporates, mostly massive, some platyness
375		ANH	335-337.5	Anhydrite, translucent to dark grayish brown (10 yr 4/2), platy, massive, very hard, trace interbedded dolomite, dry
380		CL	337.5-340	Claystone, brown (7.5 yr 5/4), interbedded anhydrite, wet, low to medium plasticity, weak to med strength ribbon, mostly cohesive, very soft; Anhydrite, translucent to dark grayish brown (10 yr 4/2), platy, with fingernail, massive, very hard, no reaction to HCL, dry
385		CH	340-344.25	Sandy clay, reddish brown (5 yr 4/4), little selenite crystals (1 cm), med to high plasticity, med flex, cohesive, very soft, wet, drying out to damp
385		CL	344.25-346	Claystone, strong brown (7.5 yr 4/6), interbedded anhydrite, little selenite crystals, cohesive, firm, med dry strength; Anhydrite, translucent
385		CH	346-347.25	Sandy clay, strong brown (7.5 yr, 4/6), fine to coarse sand, interbedded selenite, moist, high plasticity, inside was damp
390		ANH	347.25-350	Anhydrite, white (wp 9.5/N) to dark red (2.5 yr 3/6), interbedded with claystone and quartz siltstone, light green grayish (gley1 7/5)
390		CL	350-352.25	Silty claystone, dark red (2.5 yr 3/6) silty claystone, loose, very fine, slightly damp to dry, some anhydrite nodules, no reaction to HCL
390		CL	35-357.50	Claystone, red (2.5 yr 4/8), interbedded anhydrite, some nodules, dry, well cemented, no reaction to HCL, some selenite interbedding, fibrous
395		ANH	357.50-358	Anhydrite, light gray (2.5 yr 4/8), chalky, interbedded claystone, dry, some platyness, very fine selenite crystals
395		CL	358-360.5	Clay, yellowish red (5 yr 7/1), mostly dry to some moisture, interbedded anhydrite and gypsum, stiff, very fine, gypsum is platy, anhydrite is white
400		CH	360.5-361	Clay, dark red (2.5 yr 3/6), sand and some gravels, some moisture, mod plasticity, gravels are fine to coarse ground, subangular to subrounded
400		ANH	361-362.5	Anhydrite, white (10 yr 5/1), chalky, dry, very fine, angular coarse grains, loose, some very hard and coarse grains
405		CL	362.5-365	Claystone, yellowish red (5 yr 5/6), mostly dry with slight dampness, interbedded selenite and anhydrite, stiff
405		CL	365-367.5	Claystone, dark red (2.5 yr 5/6), center is stiff, interbedded anhydrite, outer is saturated creating a gooey mess, some gravel
405		CL	369-372.5	Claystone, red (2.5 yr 4/6) claystone, mottled with anhydrite (frosted), selenite and gypsum, very fine sand to silt, brittle, trace moisture
410		CL	372.5-375	Claystone, dark red (2.5 yr 3/6), increase moisture, mottled with anhydrite, gypsum (platy), very fine to coarse, crystals, trace plasticity, crumbly
410		CL	377-382.5	Clayey silt, red (2.5 yr 4/6), very fine (pulverized), some trace sand very fine, damp, loose to trace plasticity, no evaporates present, crumbly
415		CL	382.5-385	Claystone, red (2.5 yr 5/6), dry, brittle, mottled with evaporate minerals, anhydrite, gypsum, interbedded layers
415		CH	385-387.5	Clayey silt, red (2.5 yr 4/6), damp to moist, very fine grained, some plasticity, mostly crumbly, trace very fine silt (pulverized)
415		CL	387.5-390	Claystone, red (2.5 yr 5/6), dry brittle to hard, interbedded anhydrite; anhydrite is white, frosted, platy
420		CL	390-392.5	Claystone, dark red (2.5 yr 3/6), damp to dry, interbedded anhydrite and gypsum, hard, little to no plasticity, very fine grained
420		ANH	392.5-395	Anhydrite, white (2.5 y 8/1), pulverized, hard, mostly cobble sized fragments
425		CL	395-397.5	Mostly thick clay mixed with formation water
425		CL	397.5-400	Claystone, red (10 yr 4/6), interbedded with white anhydrite, dry hard, brittle, well cemented
430		CH	402.5-410	Clay, red (2.5 yr 4/6), interbedded with anhydrite, clay is moist, very plastic, due to mixture with upper 308 water
430		CL	410-412.5	Clay, red (2.5 yr 4/6), interbedded with anhydrite, clay is less moist than above
435		ANH	412.5-413.5	Anhydrite, white, interbedded with quartz siltstone, very hard quartz siltstone, anhydrite is soft to brittle
435		CL	414-415	Claystone, red (2.5 yr 4/6), interbedded anhydrite, dry with some dampness, mostly hard, very fine sand (pulverized)
435		CL	415-418	Claystone, dark red (10 yr 3/6), interbedded with anhydrite, clay is somewhat dry, trace plasticity
440		CH	418-420	Clay, red (10 yr 4/6), moist, contact with upper 308' water, very plastic
440		CH	420-422.5	Clay, red (10 r 5/6), with some gray shale, interbedded; shale is light bluish gray (gley2 8/10B); Clay is damp, moderate plasticity
445		CL	422.5-427.5	Clay, dark red (2.5 yr 3/6), interbedded with anhydrite, some moisture, damp, mostly hard, low plasticity
445		CH	427.5-430	Clay with anhydrite (2.5 yr 8/1), moist mix with 308' water, dense to stiff, moist clay, high plasticity
450		ANH	430-432.5	Anhydrite, white (2.5 yr 8/1), interbedded clay, moist due to mixing with 308' water, clay is high plasticity, anhydrite can be dense hard to crumbly
450		ANH	432.5-435	Anhydrite, gray (gley 6/N), solid, laminated, interbedded clay, red (2.5 yr 5/6), moist, high plasticity, anhydrite is dense and very hard
450		ANH	435-437.5	Anhydrite, reddish brown (2.5 yr 4/4) and white (10 r 8/1), with claystone, slightly damp, clay has low plasticity, interbedded with anhydrite
455		ANH	437.5-440	Anhydrite, gray (gley 6/N), is massive, dense, very hard, laminated
455		CL	440-442.5	Claystone, dark red (10 r 3/6), interbedded anhydrite, white (10 r 8/1), dry brittle; Anhydrite, hard, pulverized, granular nodules, platy fragments
455		CL	442.5-450	Claystone, dark reddish brown (2.5 yr 3/4), massive, dense, hard, dry; Anhydrite, white (10 r 8/1), massive, dense, large cobble size fragments
460		ANH	450-452.5	Anhydrite, reddish brown (2.5 yr 4/4) and white (10 r 8/1), with claystone, slightly damp, clay has low plasticity, interbedded anhydrite
460		CL	452.5-455	Claystone, dark red (2.5 yr 3/6), interbedded white anhydrite, moisture due to mixing with 308' water
465		CL	455-457.5	Claystone, dark red (2.5 yr 3/6), dry to slight humid, moderately hard to brittle, crumbly, anhydrite nodules, some very fine (pulverized) sand
465		CL	457.5-460	Claystone grading into light bluish gray (gley 2 7/1) anhydrite, both claystone and anhydrite are massive, dense, very hard, cobble fragments
470		CL	460-462	Claystone, red (2.5 yr 4/6), trace interbedded evaporates, dry to slightly damp, med dry strength
470		ML	462-462.5	Siltstone, massive with few white (wp 8/N) quartz crystals (3 mm), hard
470		CL	462.5-465	Claystone, red (2.5 yr 4/6), trace interbedded evaporates, dry, med dry strength
475		CL	465-467.5	Clay, reddish brown (2.5 yr 4/4), soft, dry to damp, low to med plastic, weak ribbon, trace evaporates
475		CL	467.5-470	Claystone, red (2.5 yr 4/6), trace interbedded evaporates, dry, med dry strength; Few anhydrite layers, grades into massive, hard claystone
480		CL	470-480	Interbedded layers of dry to damp clays, dry clays, hard claystone red (2.5 yr 4/6) claystone, trace evaporates, dry, med dry strength
480		CH	480-480.5	Clay, reddish brown (5 yr 5/4), very soft to soft, med to high plasticity, flexible ribbon, medium strength, dry to damp, trace anhydrite (2 in)
485		CL	480.5-484.5	Claystone, yellowish red (5 yr 5/6), mostly interbedded anhydrite, dry, medium dry strength; Anhydrite, white (wp 9/N) to gray (gley1 6/N)
485		CH	484.5-485	Clay, reddish brown (5 yr 5/4), very soft to soft, med to high plasticity, flexible ribbon, medium strength, dry to damp, trace anhydrite (2 in)
485		CL	485-490	Claystone, reddish brown (2.5 yr 4/4), dry with few anhydrite interbedded, medium to hard dry strength
490		CL	490-492.5	Claystone, red (2.5 yr 5/6), interbedded veins of anhydrite, dry, very hard, few scattered quartz minerals
490		CL	492.5-496.5	Claystone, red (2.5 yr 4/4), interbedded evaporates, soft, dry to slightly damp, no to low plasticity, weak ribbon
495		ANH	496.5-497	Anhydrite, light gray (gley1 7/N), massive
495		CL	497-499.5	Claystone, red (2.5 yr 4/4), interbedded evaporates, soft, dry to slightly damp, slightly more plastic than above, weak ribbon
500		CL	499.5-500	Claystone, red (2.5 yr 4/4), interbedded evaporates, soft, dry to slightly damp, no to low plasticity, weak ribbon

← Cement-bentonite grout

Geologist: S.R./I.T. USCS Key: SP - Sands, poorly graded DTW= 278 feet bgs (4/11/2025)

Driller: Cascade Drilling ANH - Anhydrite SW - Sands, well graded No Recovery at 0'-2', 25'-26.5, 367.5'-369', & 400'-402.5

Date completed: 4/28/2025 DOL - Dolomite GC - Gravels, sands, clays Northing: 3627727.29

Drilling method: Sonic CL - Clays of low plasticity GM - Gravels, sands, silts Easting: 573608.04

Bit diameter: 8" O.D. CH - Clays of high plasticity GP - Gravels & sands, poorly graded

Sampling method: Core Barrel ML - Silts of low plasticity

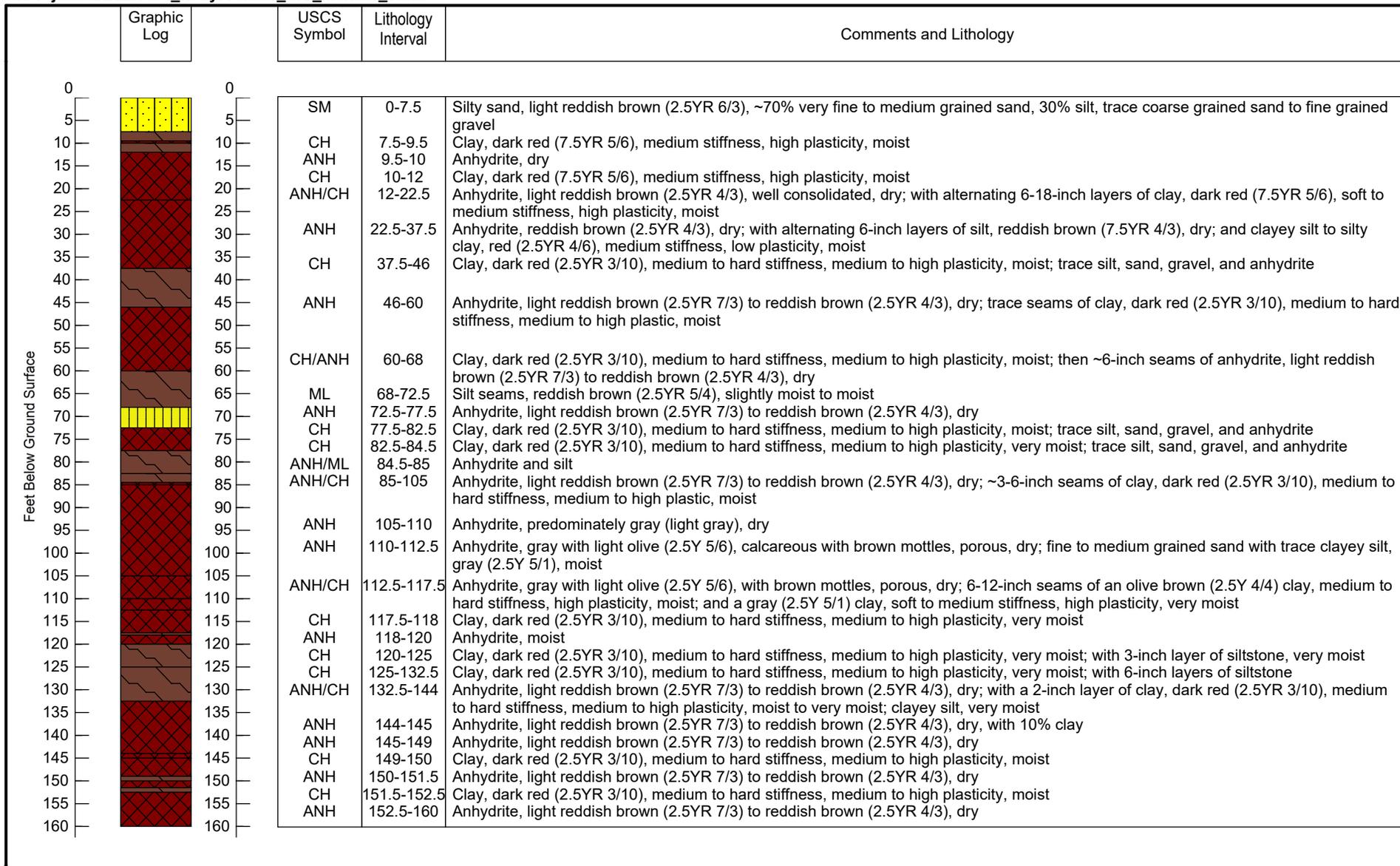
HF SINCLAIR NAVAJO REFINERY
Well Log: WDW-1-MW-1



9/4/2025

DB22.1334

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Geologist: M.D/D.M

Driller: Cascade Drilling

Date completed: 10-10-23

Drilling method: Sonic

Bit diameter: 8" O.D.

Sampling method: Core Barrel

USCS key:

ANH - Anhydrite

SM - Sands with fines

ML - Silts of low plasticity

CL - Clays of low plasticity

CH - Clays of high plasticity

Coordinates:

Northing: 3625336.67

Easting: 571316.67

HF SINCLAIR NAVAJO REFINERY
Soil Boring Log: WDW-2-BH-1



3/22/2024

DB22.1334

Figure 5a

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Graphic Log	USCS Symbol	Lithology Interval	Comments and Lithology
	-	0-10	No Recovery
	ML	10-12.5	Sandy silt, reddish brown (2.5YR 5/3), 40% very fine to coarse grained sand, slightly moist
	ML	12.5-15	Silt, red (2.5YR 5/3), trace very fine to coarse grained sand and fine grained gravel, slightly moist
	ML	15-17.5	Sandy silt, red (2.5YR 5/6), ~20-30% very fine to coarse grained sand with trace fine gravel, trace nodules of clayey silt, slightly moist
	ML	17.5-25	Sandy silt, red (2.5YR 5/6), ~20-30% very fine to coarse grained sand with trace fine gravel, slightly moist
	ML	25-30	Silt, red (2.5YR 4/6), trace fine to medium grained gravel, moist
	CL	30-40	Silty clay, dark red (2.5YR 3/6), medium stiffness, low plasticity, moist
	ML	40-46	Silt, red (2.5YR 4/6), moist to very moist
	ML	46-47.5	Silt, red (2.5YR 4/6), trace clay, moist to very moist
	ANH	47.5-50	Anhydrite, gray (2.5YR 6/1), dry
	ANH	50-52.5	Anhydrite, reddish brown (2.5YR 4/3), dry
	ANH	52.5-60	Anhydrite, gray (2.5YR 6/1), dry
	CH	60-62.5	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist
	ANH	62.5-64	Anhydrite, gray (2.5YR 6/1), dry
	CH	64-83	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist; at 80 feet 1-inch seam of saturated ML, dry below 80.1 feet
	ANH	83-87.5	Anhydrite, gray (2.5YR 6/1), dry
	ANH/CH	87.5-95	Anhydrite, gray (2.5YR 6/1), dry; alternating 6-12-inch layers of claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist
	ANH	95-100	Anhydrite, gray (2.5YR 6/1), dry
	CH	100-111.5	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist, with >1-inch layers of anhydrite, gray
	CH	112.5-115	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist
	ANH/CH	115-120	Anhydrite, gray (2.5YR 6/1), dry; alternating 6-12-inch layers of claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, dry; at 115 feet claystone is moist
	ANH	120-126	Anhydrite, gray (2.5YR 6/1), dry
	CH	126-129	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist
	CH	129-134	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, very moist
	CH	134-135	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist to very moist
	CH	135-138	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist
	ANH	138-139	Anhydrite, dry
	CH	139-145	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist
	ANH	145-145.5	Anhydrite, dry
	CH	145.5-150	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist
	DOL	150-152.5	Dolomite, olive brown (2.5Y 4/3), dry, reaction with HCL
	CH	152.5-159	Claystone, olive (5Y 4/4), medium stiffness, high plasticity, moist
	CH	159-160	Claystone, dark red (2.5YR 3/6), medium stiffness, high plasticity, moist to very moist

Geologist: M.D/D.M	USCS key:	Coordinates:
Driller: Cascade Drilling	ANH - Anhydrite	Northing: 3626175.71
Date completed: 10-7-23	DOL - Dolomite	Easting: 571793.66
Drilling method: Sonic	ML - Silts of low plasticity	
Bit diameter: 8" O.D.	CL - Clays of low plasticity	
Sampling method: Core Barrel	CH - Clays of high plasticity	

HF SINCLAIR NAVAJO REFINERY
Soil Boring Log: WDW-3-BH-1



S:\Projects\DB22.1334_HollyFrontier_UIC_Monitor_Wells

Graphic Log	USCS Symbol	Lithologic Interval	Comments and Lithology
	SM	0-6	Sandy to gravelly silt, reddish brown (2.5YR 5/4), slightly moist; ~60% silt, 30% very fine to very coarse grained sand, 10% gravel (up to 1.5-inch in diameter)
	ANH/CH	6-12	Anhydrite, mostly light gray (2.5Y 7/1) occasionally dark gray (2.5Y 4/1), dry to slightly moist; dark gray zones contain large gypsum crystals (up to 0.75-inch in diameter), surrounded by microcrystalline martix; and clay, dark red (2.5YR 3/6)
	CH	12-12.5	Clay, dark red (2.5YR 3/6), medium to hard stiffness, high plasticity, moist to very moist
	ANH	12.5-13	Anhydrite, mostly light gray (2.5Y 7/1) occasionally dark gray (2.5Y 4/1), dry to slightly moist; dark gray zones contain large gypsum crystals (up to 0.75-inch in diameter), surrounded by microcrystalline martix
	CH	13-15	Clay, dark red (2.5YR 3/6), medium to hard stiffness, high plasticity, moist to very moist
	ANH	15-16.5	Anhydrite, mostly light gray (2.5Y 7/1) occasionally dark gray (2.5Y 4/1), dry to slightly moist; dark gray zones contain large gypsum crystals (up to 0.75-inch in diameter), surrounded by microcrystalline martix
	CH	16.5-17.5	Clay, dark red (2.5YR 3/6), medium to hard stiffness, high plasticity, moist to very moist
	ANH	17.5-27.5	Anhydrite, mostly light gray (2.5Y 7/1) occasionally dark gray (2.5Y 4/1), dry to slightly moist; dark gray zones contain large gypsum crystals (up to 0.75-inch in diameter), surrounded by microcrystalline martix
	CH	27.5-33	Clay, dark red (2.5YR 3/6), medium to hard stiffness, high plasticity, moist to very moist
	ANH	33-34	Anhydrite, mostly light gray (2.5Y 7/1) occasionally dark gray (2.5Y 4/1), dry to slightly moist; dark gray zones contain large gypsum crystals (up to 0.75-inch in diameter), surrounded by microcrystalline martix; and clay, dark red (2.5YR 3/6)
	CH	34-35	Clay, dark red (2.5YR 3/6), medium to hard stiffness, high plasticity, moist to very moist
	ANH	35-37.5	Anhydrite, mostly light gray (2.5Y 7/1) occasionally dark gray (2.5Y 4/1), dry to slightly moist; dark gray zones contain large gypsum crystals (up to 0.75-inch in diameter), surrounded by microcrystalline martix; and clay, dark red (2.5YR 3/6)
	CL	37.5-44	Clay, dark red (2.5YR 3/6), very moist
	SM	44-44.5	Sandy Silt
	CL	44.5-45	Clay, dark red (2.5YR 3/6), very moist
	ANH/CH	45-50	Anhydrite, mostly light gray (2.5Y 7/1) occasionally dark gray (2.5Y 4/1), dry to slightly moist; with alternating 6-12-inch layers of clay, dark red (2.5YR 3/6), medium to hard stiffness, high plasticity, moist to very moist; sandy silts, moist to dry
	ANH	50-65	Anhydrite, mostly light gray (2.5Y 7/1) occasionally dark gray (2.5Y 4/1), dry; dark gray zones contain large gypsum crystals (up to 0.75-inch in diameter), surrounded by microcrystalline martix; with trace 1-inch layers of clay at 55'-57.5' and 60'-61.5'; dark red (2.5YR 3/6), moist
	ANH	65-66	Anhydrite, gray (2.5Y 5/1), with gypsum crystals, dense, no clay
	ANH/CL	66-67.5	Anhydrite with interbedded clays, clay is dark red (2.5 YR 3/6), slightly plastic, non-silty
	ANH	67.5-70	Anhydrite, hard stiffness, microcrystalline, dense, no clay
ANH	70-72.5	Anhydrite, dark gray (2.5Y 4/1), no clay	
ANH	72.5-74	Anhydrite, light gray (10YR 7/2), hard stiffness, microcrystalline, dense, no clay	
ANH/CL	74-80	Anhydrite and clay, dark gray (2.5Y 4/1), slightly plastic, slightly moist, non-silty	
ANH	80-95	Anhydrite, light gray (10YR 7/2); with silty streaks, olive gray, chalky, non-plastic, slightly moist	
CL	95-97.5	Clay, strong brown (2.5YR 5/6), non-plastic, gypsum streaks, slightly silty	
ANH	97.5-102.5	Anhydrite, light gray (10YR 7/2); with silty streaks, olive gray, chalky, non-plastic, slightly moist	
ML	102-103.5	Silt, olive gray, chalky, non-plastic, slightly moist	
ANH	103.5-110	Anhydrite, light gray (10YR 7/2); with silty streaks, olive gray, chalky, non-plastic, slightly moist	
CL	110-111	Clay, light gray (10YR 7/1), slightly plastic, slightly silty	
ANH	111-115	Anhydrite, light gray (10YR 7/2); with silty streaks, olive gray, chalky, non-plastic, slightly moist	
CL	115-115.5	Clay, white (10YR 8/2), medium plasticity, slightly silty	
ANH	115.5-137.5	Anhydrite, light brownish gray (2.5Y 6/2), hard stiffness, dense, very fine-microcrystalline; with trace clay, light gray (10YR 7/1), slightly plastic, non-silty	
ANH	137.5-140	Anhydrite, slightly darker light gray (10YR 7/1), very hard stiffness, dense, microcrystalline	
ANH	140-141.5	Anhydrite with clay streaks, pinkish gray (7.5YR 6/2), non-plastic, very silty	
ANH	141.5-145	Anhydrite, pinkish gray (7.5YR 6/2), non-plastic, very silty, no clay	
DOL	145-147.5	Dolomite, light brownish gray (10YR 6/2), hard stiffness, very dense, microcrystalline, weak HCL reaction	
ANH	147.5-150	Anhydrite, pinkish gray (7.5YR 6/2), non-plastic, very silty, no clay	

Geologist: M.D/D.M
 Driller: Cascade Drilling
 Date completed: 10-20-23
 Drilling method: Sonic
 Bit diameter: 8" O.D.
 Sampling method: Core Barrel

USCS key:
 ANH - Anhydrite
 DOL - Dolomite
 SM - Sands with fines
 ML - Silts of low plasticity
 CL - Clays of low plasticity
 CH - Clays of high plasticity

Coordinates:
 Northing: 3630789.85
 Easting: 570200.23

HF SINCLAIR NAVAJO REFINERY
 Soil Boring Log: WDW-4-BH-1





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Boring Log

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Site		WOW-1-MW-1 HFSNR		Location Map				
Logged by		S. Ramirez and Israel Torres		Client/Project #				
Boring Number				Drilling Co. Cascade				
Drilling Method		Sonic		Drill Rig Gus Tech 400				
Date Started		4/1/25		Date Completed				
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
							0-2	No recovery
						SP	2-6.4	Hydrovac fill - pink (7.5YR 7/3) sand w/ limestone up to 1.5 cm in diameter, sand is rounded to well rounded; fine to med. grained, non plastic, dry, well sorted, loose
						GP	6.4-7	Caliche pinkish white (7.5YR 8/2), very fine to fine grained, subrounded, well sorted, very hard, not sticky, dry
						SP/GP	7-15	Sandy silt w/ 35-40 percent caliche; pinkish white (7.5YR 8/2), fines w/ sand very fine sand, rounded to well rounded, caliche anhydrite ranges from 1cm to 1.5 inches, poorly sorted, silty sand is non-cohesive, loose, non sticky, dry, anhydrite is cohesive, hard, dry, very high dry strength
						SM/GP	15-16.75	Silty sand, light brown (7.5YR 6/4), w/ little (0-25%) caliche ranging from 1cm - 1 inch, and trace (<5%) limestone, up to 2cm. Silty sand is non-cohesive, loose, moderately sorted, very fine to fine grain; well rounded; non plastic, dry
						SP/GP	16.75-17.5	Sandy silt, w/ anhydrite from .5cm - 2 inches, silt is white (7.5YR 8.5/1), rounded, very fine to fine grain; well sorted w/ little (0-25%) caliche and anhydrite, caliche grains not visible in anhydrite, hard, dry, silt is non-cohesive & loose, non plastic, dry
						SM/GP	17.5-20	Silty sand, w/ little (0-25%) caliche, pinkish white (7.5YR 8/2), very fine to fine grain, rounded to well rounded, non-cohesive, loose, dry, non-plastic, caliche is .5cm - 1 inch, very fine grained, cohesive, hard; dry
						SM/ML	20-25	clayey silty sand w/ trace (5%) limestone up to 2 inches, and some (25-45%) clay, subrounded to rounded, very fine to fine grained, non cohesive, loose, low-med plasticity, weak ribbon, dry, slightly sticky when wet; limestone is rounded, smooth, hard, white (7.5YR 8/1), and very dark gray (7.5YR, 3/1)

DSS&A Form No. 080 8/02

using Munsell Soil Color chart 2009

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Boring Log

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Site WDW-1-MW-1							Location Map	
Logged by S. Ramirez and I. Torres				Clon/Project #				
Boring Number				Drilling Co.				
Drilling Method Sonic				Drill Rig				
Date Started				Date Completed				
PID FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content								
							25-	No Return
							26.5	Caliche
					6P		26.5-27.5	Autalite gravel, up to 2 inches w/ little sand (10-25%), sand is very pale brown (10YR 8/3), fine grain, round, d. r. well sorted, loose, dry. Autalite is made up of fine, rounded, consolidated grains, well sorted, strong, heavy, hard, dry
					SP		27.45-30.5	little (10-25%) caliche silty sand w/ Autalite up to 2.5 inches, sand is very fine to fine, well sorted, rounded to well rounded, loose, dry, very pale brown (10YR 8/4)
					GW/SC		30.5-32	Caliche Autalite gravel w/ some (25-45%) clayey sand, reddish yellow (7.5YR 6/6), fine grained, sub rounded to rounded, well sorted, non to low plasticity, slightly sticky when wet, w/ weak ribbon. Autalite is same description as above, up to 3 inches in diameter, dry
					SM/LO		32-34.75	Clayey silty sand, w/ less clay than above, and few (5-10%) Autalite up to 1 inch. Sand is very pale brown (10YR 8/1), fine rounded, well sorted, non to very low plasticity, weak ribbon, loose, dry
					ML		34.75-36.9	Claystone grading into sandy clay, loose, dry, when wet = no to low plasticity, slightly sticky, weak ribbon, very fine to fine grained, rounded sorted, pink (7.5YR 7/3). Claystone is strong brown (7.5YR 4/6), cohesive, firm, medium dry strength
					ML		36.9-37.5	Claystone w/ some (25-45%) sandy clay. Red (2.5YR 4/6), low to med plasticity, not sticky, weak ribbon, sandy clay, is fine grained, rounded, well sorted, little (10-25%) efflorescence in claystone, consolidated, soft to firm, low dry strength, dry to damp
					ML		37.5-40.1	Claystone w/ few (5-10%) sand, consolidated soft, ribbons w/ water, low plasticity to med plasticity, weak ribbon, slightly sticky when wet, low dry strength. Red (2.5YR 4/6), dry to damp, few (5-10%) efflorescences, sand is fine, well sorted, and rounded

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Boring Log

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Site		WDW-1-MW-1						Location Map	
Logged by			Client/Project #						
Boring Number			Drilling Co.						
Drilling Method			Drill Rig						
Date Started			Date Completed						
PID FID Reaming	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks	
Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content									
						ML	40.1-41.5	Sandy claystone, claystone is red (z. 5YR 4/6) w/ large streaks of efflorescence, possibly anhydrite, its very soft, no reaction to HCL, very fine, rounded, well sorted grains, white (white page 4/9.5) and platy. Sand is pink (z. 5YR 7/14), loose, well sorted w/ some (25-45%) gypsum. Claystone is cohesive, soft, low dry strength, dry to damp, low plasticity, weak ribbon slightly	
						ML	41.5-42.5	As above, less efflorescence, slightly med sand, sand is loose but forms ribbons w/ out water, low plasticity, weak ribbon grades into below	
						ML	42.5-44.5	Claystone w/ little (0-25%) sand, reddish brown (z. 5YR 4/4), w/ little (0-25%) interbedded efflorescence ranging in color from white to gray, claystone is cohesive, soft w/ low dry strength, dry to damp, low plasticity, weak ribbon. Sand is well sorted, rounded and fine grained	
						ML	44.5-48.5	Sandy silty clay, white (white page z. 5YR 7/1), loose, dry, very fine to fine, well rounded, well sorted, when wet med plasticity, weak ribbon, contains few (5-10%) gypsum, anhydrite lumps to 2 inch diameter, no HCL rxn, scratches w/ finger nail, dry, clay not sticky	
						SM	48.5-50	Sandy silt, white (white page 9.5/11), very fine to fine grain, well rounded, well sorted, very loose, dry, little (0-25%) gypsum up to 2 inches diameter, no HCL rxn	
						ML	50-51.75	Claystone w/ efflorescence (some 25-45%), claystone is red, (z. 5YR 4/6), dry, cohesive, soft, low dry strength, when wet forms ribbon, low to med plasticity, weak ribbon, efflorescence is white, no visible to very fine grain, no HCL rxn	
						ML	51.75-55	Claystone, dark red (z. 5YR 4/6), cohesive, firm to stiff, med dry strength, dry to damp, little (0-25%) efflorescence, when wet, not sticky, low plasticity, weak ribbon. Some efflorescence is platy	
							55-57.5	Silty claystone interbedded w/ anhydrite efflorescence and little gypsum, claystone is red (z. 5YR 4/6), cohesive, soft,	

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Boring Log

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Site		WDW-1-MW-1					Location Map	
Logged by			Client/Project #					
Boring Number			Drilling Co.					
Drilling Method			Drill Rig					
Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
								low dry strength, dry, low plasticity, weak ribbon. efflorescence is white, low dry strength, cohesive, very soft, very fine grained, well sorted & rounded
						ML SM	57.5 59	Sandy silt w/ gypsum up to 2 inches, silt is white (white page 9.5/10), very fine, well rounded, well sorted, dry, very loose. gypsum is pinkish white (wp 82) no HCL rxn, scratches w/ finger nail
						ML	59 60	Claystone interbedded w/ efflorescence (up to 2cm thick), cohesive, firm, low dry strength, low plasticity, weak ribbon, dry to damp, efflorescence is white to gray, very fine grained, rounded, well sorted. Loose sandy silt, when wet slightly sticky, non-plastic
						SM	60 62.5	Sandy silt w/ gypsum up to 1.5 inches, white (wp 9/1), loose, dry, very fine grained, well rounded, well sorted
						ML	62.5 69.5	same as claystone above w/ interbedded efflorescence, but soft, loose sandy silt is few (5-10%)
						SM	69.5 70	Anhydrite w/ interbedded claystone and little clayey silt, claystone is red (2.5YR 4/6); cohesive, soft to firm, low plastic, non-sticky, dry, w some (25-45%) efflorescence - firm to stiff, non-visible to very fine grained white (wp 9.5/10); rounded, well sorted, anhydrite ranges from white (wp 9.5/10) to pink 5YR 8/4 to light red (10R 6/8), non-visible to very fine grained, mod to well sorted, rounded up to 3 inches in diameter. clayey silt is pale yellowish pink (wp 9/2), very fine to fine grained, well sorted rounded
						ML	70 71.75	claystone as above w/ med dry strength, non-hate plasticity when wet, not sticky w/ efflorescence as above (5-10%)
						CL	71.75 75	claystone, red (2.5YR 4/6), few efflorescence cohesive, soft, low plasticity, weak to flexible ribbon, dry to slightly damp, not sticky, trace (5%)
						CL	75 76.75	claystone w/ mostly (25-45%) efflorescence, red (2.5YR 4/6), low plasticity, non-sticky, weak ribbon, cohesive, soft, dry, efflorescence as described above
							76.75 79	clay stone w/ few (5-10%) specks of pale green (6G4/6/1) about 1cm, clay is red (2.5YR 4/6), dry to slightly damp

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wp = white page



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Boring Log

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Site		WDW-1-MW-1					Location Map	
Logged by			Client/Project #					
Boring Number			Drilling Co.					
Drilling Method			Drill Rig					
Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
								Cohesive, soft to firm, low-med plasticity, weak ribbon, non sticky
							79-80	Anhydrite, light red, in clayey silt pink (10R 6/6) f. s.r. 813, dry loose, when wet non sticky, not plastic, very fine grained, well sorted, rounded, anhydrite has no visible grains.
						CL	80-84	Claystone, w/ trace specks (5%) reddish brown (2.5YR 4/4), interbedded anhydrite @ 82', claystone is cohesive soft, low dry strength, ribbons w/out water low-med plasticity, med ribbon strength, dry
							84-86	Anhydrite, light red (10R 7/6), cohesive, firm low dry strength, no visible to very fine grains, rounded, mod. to well sorted, in sandy silt, dry, very fine to fine grained, well sorted, rounded to well rounded, when wet slightly sticky, pink (10R 8/5)
							86-87.5	Anhydrite, pinkish white to light red 10R 8/2 & 7/6, no visible grains, but slightly platy, cohesive, hard, very high dry strength, in mostly (>45%) sandy silt, as above, pink pinkish white (10R 8/2)
							87.5-90	As above, sandy silt is pale yellowish pink (wp 9/2), Anhydrite has visible grains, very fine, subangular to rounded, some platiness, scratches w/ ring nail, very high dry strength, color ranges from pink to light red (10R 8/3 & 6/8)
							90-92	Anhydrite in sandy silt, anhydrite is cohesive, very hard, high dry strength mostly light reddish gray w/ light red streaks silt is white (wp 9/1), loose, dry, very fine grained, subrounded, well sorted, (2.5YR 7/1 & 6/6)
						CL	92-93.5	Claystone, red (2.5YR 4/6), cohesive, firm, med dry strength, dry, efflorescence (few 5-10%), platy, translucent, w/ some (25-45%) very fine grains, sub rounded platy efflorescence could be anhydrite
						CL	93.5-95	Claystone, red (2.5YR 4/6), cohesive, soft, low dry strength, low to med plasticity, weak to med strength ribbon, trace (5%) platy anhydrite in clay, few (5-10%) efflorescence, little (10-25%) greenish gray (Gley 2.6/10) spots up to 1cm diameter, little clayey silt, pink (2.5YR 8/4), fine grained, rounded, well sorted

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Boring Log

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Site		WDW-1-MW-1						Location Map	
Logged by								Clim/Project #	
Boring Number								Drilling Co.	
Drilling Method								Drill Rig	
Date Started								Date Completed	
FD	RD	Row	Sampling	Sample	Sample	Sample	USCS	Depth	Soil Description/Remarks
Revol	Revol	Counts	Device	Recovery	Interval	Number	Symbol	(feet)	Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
								95-	Claystone, red (2.5YR 4/6), less efforescence than above, claystone is cohesive, firm, med. dry strength
								95.5	med. dry strength
								95.5-	Anhydrite, white (5Y 8/1), in sandy silt, w/ few 6/16 clay, anhydrite is cohesive, no. very hard, but does scratch w/ fingernail, has few light red streaks (or 6/6), silt is loose, white (7.5YR 9.5/1), well sorted, rounded, very fine, attc slightly sticky
								96.75-	when wet
							CL	96.75-	Clay stone, w/ greenish gray spots (like as above) up to 1 inch in diameter, clay is soft, cohesive, med dry strength, low to med plasticity, weak to flexible ribbon, red (10R 9/16)
							CL	99-	Claystone, as above, smaller greenish gray spots (up to 1cm), interbedded platy anhydrite as described above, up to 1 inch in diameter
							CL	101.5-	Claystone, w/ interbedded, greenish gray grayish olive (10Y 5/2) clay & white (up 9.5/1) efforescence, cohesive, soft to firm, low dry strength, low to med plasticity, weak ribbon
							CH	102-	Claystone, trace (5%) efforescence, med to high plasticity, flexible to strong ribbon, not sticky, slightly damp to damp, red (2.5YR 4/8)
							CL	104-	Claystone w/ interbedded anhydrite, platy, reddish brown (2.5YR 4/4), trace (5%) gray grayish olive spots (as above), cohesive, soft, low plasticity, weak ribbon
							CL	106-	Claystone w/ efforescence up to 2cm white (up 9.5/1), no visible grains to very fine grained, few (5-10%) platy anhydrite & interbedded (large up to 3 inches anhydrite in claystone Anhydrite is translucent to white (up 9.5/1) to red (2.5YR 5/6), visible platy platiness & fine grains, med sorted, & sub rounded, scratches w/ finger nail no HCL rxn, claystone is cohesive, soft to firm, low plasticity, weak ribbon, dry, low to med dry strength
								107.5-	Claystone as above, less efforescence, anhydrite is up to 2 inches in diameter, clay is firm, w/ med dry strength
								110	



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Boring Log

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Site		WDW-1-MW-1						Location Map	
Logged by			Client/Project #						
Boring Number			Drilling Co.						
Drilling Method			Drill Rig						
Date Started			Date Completed						
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks	
						CL	110-116	Claystone, red (2.5YR 4/6), few (5-10%) greenish gray (6.5Y 6/1) spots, 2mm diameter, progressively more effloresces as we reach the base of layer, clay is cohesive, soft, low plasticity, weak ribbon, med dry strength, slightly damp at top. Efflorescence are mostly (>45%) fine grained, rounded, well sorted, white (up 9.5/1), others are platy anhydrite, translucent	
						CL	115-119	Claystone w/ interbedded anhydrite up to 1/2 inch in diameter, descriptions as above	
						CL	119-120	Claystone, red (2.5YR 4/6), little (10-25%) interbedded anhydrite up to 1cm in diameter, little (10-25%) spots of greenish gray (6.5Y 6/1) up to 1mm in diameter. Clay is cohesive, soft, med dry strength, low-med plasticity, weak ribbon, dry to slightly damp	
						CL	120-121.5	Claystone as above w/ interbedded anhydrite up to 2cm in diameter	
						CL	121.5-125	Claystone, dark red (2.5YR 3/6), cohesive, soft to firm, med dry strength, low plasticity, weak ribbon, not sticky, dry, little (10-25%) greenish gray spots, some interbedded platy anhydrite, translucent, up to 1cm in diameter	
							125-128.5	Anhydrite in sandy silt, anhydrite is mostly (>45%) is red (2.5R 4/6) w/ white (up 9.5/1) streaks, no visible grains but platy, silt is loose, very fine rounded, well sorted, light pink (7.5R 8/2), @ 124.75 silt becomes, pale red (7.5R 7/4)	
						CL	128.5-130	Claystone w/ interbedded anhydrite & efflorescence. Claystone is dark red (2.5YR 3/4), slightly damp to damp, med plasticity, med strength to weak ribbons, cohesive soft, efflorescences are white (up 9.5/1), up to 1.5 cm thick, very fine to fine grained, well sorted, well rounded, low dry strength, anhydrite is cohesive, hard, slightly translucent to light red (2.5YR 6/6), up to 1/2 inch diameter, platy	



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Boring Log

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Site WDW-1-MW-1							Location Map	
Logged by			Client/Project #					
Boring Number			Drilling Co.					
Drilling Method			Drill Rig					
Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
						CL	130-134.25	Claystone, reddish brown (2.5 YR 4/3) st dry to slightly damp, cohesive, soft, low to med plasticity, med strength ribbon, (flexible slightly) low to
						LL	134.25-139	As above w/ interbedded effervescent up to 2cm in diameter, white (2.5 YR 8/2), very fine grained pinkish well sorted, rounded
						CL	139-141.75	Claystone, dark red (2.5 YR 3/6), w/ interbedded anhydrite. claystone is dry to very slightly damp, low to med plasticity, weak ribbon, soft, has some translucent plates of anhydrite. Anhydrite is up to 1 inch in diameter, white (wp 9.5N) to light red (2.5 YR 7/6), platy, hard, can be scratched w/ finger nail, no HCL rxn
							141.75-143.5	Anhydrite in sandy silt, anhydrite up to 7 inches in diameter, red (10R 4/8) platy, silt is slightly sticky when wet, pink (10R 8/4), loose, rounded, very fine to fine grain, well sort.
						CL	143.5-145	Claystone, as described in last claystone layer, w/ thin anhydrite layer b/w @ 149, top half has light red (10R 7/6) anhydrite, bottom has white (wp 9.5N), middle anhydrite layer is platy, translucent to light gray (10R 7/1), hard, up to 6 inches in diameter
							145-147	Anhydrite in silt, silt is white (wp 9.5N) very fine, well sorted sub rounded, some cohesive pieces up to 1 inch in diameter, w/ interbedded plates of anhydrite. Anhydrite is firm, w/ low dry strength. Anhydrite is white (wp 9.5N) to translucent & light gray (10R 7/1), hard, very high dry strength, platy. Trace claystone up to 1.5 inch diameter, as described above
							147-147.5	Anhydrite in silt as abte above, silt is pinkish white (10R 8/2), anhydrite has thinner plates you can peel, translucent to light red (10R 6/6) grading into claystone w/ interbedded

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Note: Translucent, flaky, platy crystals starting @ 135 may be selenite



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Boring Number		Drilling Co.						
Drilling Method		Drill Rig						
Date Started		Date Completed						
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
								layers of efforescence (45%)
						CL	147.5-151	Claystone, dark red (10R 3/4), low plasticity, cohesive, soft, med dry strength, weak ribbon, dry to slightly damp. Interbedded w/ efforescence, white (wp 9.5%), very fine grained, rounded, well sorted, low dry strength, & anhydrite up to 2 inches in diameter, white (wp 9.5%) to reddish gray (10R 6/1), platy, hard, very high dry strength
						CL	151-155	Claystone, red (2.5YR 5/6), low plasticity, weak to med flex ribbon, dry to slightly damp, little (10-25%) yellowish brown spots (10YR 5/8), trace (<5%) anhydrite, 1cm in diameter
						CL	155-162.5	Claystone red (2.5YR 4/6), dry to slightly damp, soft to firm, cohesive, med dry strength, low plasticity, weak ribbon, w/ few (5-10%) pale green (6.5Y 6/2) spots up to 1cm and little interbedded anhydrite, up to 2in (10-25%) in diameter, white (wp 9.5%) to pale red (10R 6/4), platy, few (5-10%) white (wp 9.5%) efforescence, very fine grained, rounded, well sorted
						CL	162.5-165	As above, w/ some efforescence and no large anhydrite, little (10-25%) pot sheets (2cm) of anhydrite throughout & no green spots
						CL	165-167.5	Claystone w/ interbedded anhydrite & some (25-45%) pinkish white silt, rounded, well sorted very fine grain, claystone is dry, dark red (2.5YR 3/4), low plasticity, not sticky, weak to med dry strength, cohesive, soft, low dry strength, anhydrite is platy, mostly light reddish gray (2.5YR 7/1) hard, little (10-25%) efforescence, white (wp 9.5%)
							167.5-169.25	Anhydrite, in silt, cohesive up to 7 inches in diameter, hard platy pinkish gray (2.5YR 7/1), scattered w/ finenail, silt is white (wp 9.5%) fine grain, sub rounded to rounded, well sorted



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Site							WDW-1-MW-1		Locallon Map		
Logged by				Client/Project #							
Boring Number				Drilling Co.							
Drilling Method				Drill Rig							
Date Started				Date Completed							
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks			
						CL	167.25 - 172.25	Claystone, w/ interbedded platy translucent anhydrite, claystone is low plasticity, weak ribbon, cohesive, soft, med. dry strength, dry to slightly damp dusky red (10R 3/4), w/ 3 inch anhydrite bed in center of layer; described as above, translucent to pinkish gray			
							172.25 - 172.5	Anhydrite, with silt like last anhydrite layer, anhydrite is also the same but white (up 2.5M), to light gray (core 71)			
							172.5 - 175	Claystone w/ some (ca 45%) chert (up to 1 inch) of platy pink, translucent to light gray (core 71) anhydrite. Clay stone is weak red (10R 5/4), low plasticity, weak ribbon, soft, dry claystone, red (2.5YR 4/6), cohesive, soft, low dry strength, non-low plasticity, weak ribbon, dry to slightly damp, few (5-10%) efforescence, white (up 8.5M) very fine grained, well sorted, slightly platy, subrounded, trace (5%) selenite crystals, translucent, subangular, up to 1mm in diameter			
						ML	175 - 172.25	Claystone, interbedded in anhydrite w/ thin pure clay layer in the middle. Claystone described as above. Anhydrite is white (up 9.5M) to pinkish white (5YR 8/2), cohesive, soft to firm, low-med dry strength, could be mostly (ca 45%) efforescence, little (10-25%) selenite, translucent to white (up 9.5M), platy sheets no more than 15mm thick			
						ML	172.25 - 180	Claystone, reddish brown (5YR 4/4), dry to slightly damp, non-plastic, cohesive, firm to stiff, med. dry strength, little (10-25%) efforescence layers up to 1cm thick, pink (5YR 8/3), very fine grained, well sorted subrounded, few (5-10%) selenite crystals			
							180 - 181	Anhydrite interbedded w/ efforescence w/ claystone layer up to 3/4 inch thick, claystone is described as above but reddish brown (5YR 5/4), efforescence are as above but white (9.5M up)			
							181 - 185	Anhydrite is platy, w/ a silty luster, slightly translucent, to white (up 9.5M) to light reddish brown (5YR 4/3), cohesive, very hard, up to 3 inches in diameter, no HCL reaction, scratches w/ fingernail, efforescence has small HCL rxn			

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None of coming from injection well maintenance

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Date Started		Date Completed

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
0.0							187-188	Sandy, gravelly claystone, yellowish brown, (10YR 5/4), slightly damp to damp, cohesive, soft, low dry strength, non-plastic, not sticky, fine to coarse grained, moderate to well sorted, slight odor(?)
							188-190	Anhydrite in efforescence as described above, w/ thin thick layer of clay as described above, yellowish brown (5YR 10/2), slightly damp, w/ yellowish red (5YR 5/5) spots
						CL	190-194	Claystone, dark reddish brown (5YR 3/4), dry to slightly damp, cohesive, soft, low plasticity, weak ribbon, not sticky, trace (5%) efforescence w/ trace (5%) selenite flakes
							194-195	Anhydrite w/ interbedded claystone (1cm) in efforescence, claystone as above
							195-199.5	Anhydrite has low dry strength & some (20-45%) selenite crystals, translucent to white (wp 9.5/W)
						CL	199.5-200	Claystone, dark red, (2.5YR 3/4), cohesive, firm, med dry strength, nonplastic to very low plasticity, trace efforescence grading into some (20-45%) interbedding up to 1cm thk w/ trace selenite, white (wp 9.5/W) to light reddish brown, very fine grained, well sorted subrounded, no HCL rxn, scratches w/ nail. Claystone dry to slightly damp
							200-205	Anhydrite, platy, translucent to light reddish brown (5YR 6/3), cohesive, very hard, but breaks easily, low to med dry strength, 4 inches in diameter, maybe its selenite
						CL	200-205	Claystone, dark reddish brown (5YR 3/4), dry to slightly damp, cohesive, stiff, med dry strength, not plastic, not sticky, few interbedded efforescence b/w 203.5-204.5, white (9.5/W wp), very fine grained, well sorted, rounded
						CL	205-208.75	Claystone, as described above w/ some (20-45%) interbedded efforescence b/w 206.5-207.25 as described above
							208.75-211.75	Anhydrite, up to 6 inches in diameter, translucent to reddish gray (5YR 5/2), platy, silky luster, w/ little 20(10-25%) white (wp 9.5/W) efforescence, hard, but scratches w/ fine nail, no HCL rxn, no HCL - efforescence
						CL	211.75-212.5	Claystone, slightly damp, reddish brown (5YR 5/4), low-med plasticity, weak to slightly flexible ribbon, soft, low dry strength, trace 5% efforescence



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Date Started		Date Completed							
PID	FID	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content									
								212.5-215	Anhydrite thicker plates up to 1/2 cm, w/ trace (25%) selenite layers up to 3mm thick. Anhydrite is reddish gray (2.5YR 5/1), cohesive, hard, scratches w/ fingernail. Last 6 inches has interbedded clayey sandstone, yellowish red (5YR 5/6), very fine grained, subrounded, well sorted, hard w/ med dry strength, not plastic, very slightly streaky when wet, dry.
								215-216	Anhydrite, broken up, dark gray (7.5YR 4/1), platy, hard, scratches w/ fingernail, no. flc. rxn. few (5-10%) selenite crystals, broken up sandy silt, pinkish gray (7.5YR 7/2), very fine to coarse grained, moderately sorted, subrounded to rounded.
								216-219.5	Anhydrite as above, not platy, lighter in color white (up 9.5/10) to white (10YR 8/1) in sandy silt as above but white (up 9.5/10) grades into pale yellowish pink (7.5YR 9/2), anhydrite grades into red (10R 4/6) w/ light gray (10R 7/1) interbedded layers.
							CL	219.5-222.5	(10-25%) Claystone w/ little eff. zescorp - white (up 9.5/10) & little selenite crystals - dark reddish brown (5YR 3/4), dry, cohesive, firm, med dry strength, no to low plasticity, weak ribbon, 2 inch layer of anhydrite, reddish gray (2.5YR 5/1), massive rather than platy.
								222.5-225	Anhydrite w/ selenite crystals, white (10R 5/1) to reddish gray (10R 4/1) w/ some red (10R 4.5/8) streaks, cohesive, hard, very fine grained crystals, well sorted, sub rounded.
							CL	225-226	Claystone, dark reddish brown (5YR 3/2), interbedded (2mm thick) anhydrite - translucent, claystone is cohesive, very stiff, med to high strength, non-plastic.
								226-229.5	Anhydrite, platy (1mm plates), cohesive, very hard, scratches w/ fingernail, shiny, silty luster, yellowish red (5YR 5/6) & dark gray (5YR 4/1) in broken up silt - white (9.5/10).
							ML CL	229.5-230	Claystone, dry, reddish brown (5YR 5/4), little (10-25%) sandy, gravel sized, anhydrite interbedded, non-plastic, low to med dry strength.



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No		WDW-1-MW-1		Location Map	
Issued by		Client Project #			
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Drilling Method		Drill Rig			
Date Started		Date Completed			
Depth (feet)	Soil Description/Remarks	USCS Symbol	Sample Interval	Sample Number	Notes
230-235	Anhydrite, made up of platy crystals, but not sheets, gray (6/10 6/10), low to med dry strength, slightly rough, no HCL rxn, crumbles when scratched w/ finger nail, @234-234.25 layer of fine to very fine grained anhydrite(?) gray (6/10 6/10) slightly porous, feels smoother, almost like limestone, but no HCL rxn, scratches w/ finenail, but not as easily				
235-240	Gypsiferous siltstone / Anhydrite(?), cohesive, very hard, need tools to break open, still scratches w/ finenail, white to light gray (6/10 6/10 & 7/10), slightly platy, very fine grained, slightly rough, subangular, well sorted, 1/2 inch layer of clay @ 238-239, damp, med to high plasticity, sticky, med to strong flexibility, brown (7.5YR 5/4)	(Yates?) ML CH			slightly
240-245	Gypsiferous siltstone, white to light gray (6/10 6/10 & 7/10) moderate to well sorting, subangular, fine grained, interbedded layers of anhydrite, 1/2 inch thick, sheeted, shiny to silty luster, platy, easily scratches w/ nail, light gray (6/10 6/10), neither reacts to HCL				
245-252.5	Anhydrite w/ interbedded siltstone - very fine, sub rounded, well sorted, light gray (6/10 7/10) barely scratches w/ finenail, anhydrite is massive rather than platy, gray (6/10 6/10), cohesive, very hard, does scratch easily w/ finenail, neither reacts to HCL, mostly (2/3) pulverised into sandy silt - white (wp 9.5/10) @ 249.5 - 250.25, crumbly efforescence, white (wp 8.5/10), no to very small HCL rxn, maybe dolomite?				
252.5-257.5	Siltstone w/ interbedded anhydrite anhydrite is described as above, siltstone - as contains (1mm) sandstone layers of dolomite, small HCL rxn, brownish yellow (10YR 6/6) very fine grained, overall some layers of dolomite powdered, rxn to HCL, light gray (2.5YR 7/2), silty w/ sandy, rough				above
257.5-260	Siltstone, light gray (10R 7/1), cohesive low to med dry strength, tiny interbedded dolomite layers - dolomite rxn to HCL, not the siltstone, very fine grained, slightly platy. Layers of other light gray (10R 7/2) siltstone w/ interbedded efforescence white (wp 9.5/10), very fine (both eff. & silt) siltstone is slightly porous, neither rxn HCL Also, 1/2 inch layer of dolomite, crumbly cohesive, low dry strength, HCL rxn, very fine grained, rough, well sorted, light gray (6/10 7/10)				



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Site		Location Map						
WDW-1-MW-1								
Logged by		Client/Project #						
Boring Number		Drilling Co.						
Drilling Method		Drill Rig						
Date Started		Date Completed						
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
								Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
							260-260.75	Claystone in broken up anhydrite, reddish brown (2.5YR 4/3), dry, non plastic, low dry strength, interbedded w/ dark gray (5YR 4/1), crumbly dolomite siltstone, no HCL rxn
							260.75-264.25	Anhydrite, cohesive, very hard, scratches w/ finger nail, translucent to reddish gray (5YR 5/2), platy, no visible grains, no HCL rxn
							264.25-267.5	Claystone, clay to very slightly damp, silty brown (7.5YR 4/4), cohesive, firm, low to med dry strength, crumbly, few (5-10%) of forams - white (up 9.5IN), non plastic, not sticky, 2 interbedded, 25 ft. layers of low dry strength anhydrite, (45%) mostly massive, but some platiness, white (up 7.5IN), no HCL rxn
							267.5-269.75	Anhydrite in layers of massive & platy, massive - gray (5YR 5/1), very hard, slightly scratches w/ fingernail, few silty fine grains, rounded, well sorted, platy pinkish white (5YR 5/2) to mostly (4.5IN) pinkish gray (5YR 6/2), cohesive, soft, low dry strength, crumbly, neither has HCL rxn
							269.75-270.75	Siltstone, light gray (5YR 6/1), cohesive, hard, breaks w/ tools, slightly sandy, few (5-10%) sandy - very fine, med sorted, sub rounded, grades into same w/ few selenite crystals
							270.75-275	Siltstone w/ interbedded anhydrite, (mostly poaluminous), siltstone described as above, anhydrite is translucent to very pale brown (10YR 7/4), no HCL rxn, hard, barely scratches w/ finger nail
							275-279	
							279-281	Siltstone, white (up 9.5IN) to light gray, cohesive, very hard, does not scratch w/ fingernail, tiny dolomite veins, grades into dolomite, white (10YR 8/1), crumbly, HCL rxn to HCL, very fine grained, slightly porous, well sorted, rough sub rounded, low dry strength
							281-282.25	Silty claystone, dry to very slightly damp, dark greenish gray (9YR 4/1) & few (5-10%) light olive (10Y 5/4) spots, cohesive, soft, low dry strength, low plasticity, weak ribbon, little (up 2.5IN) interbedded fluorescence - white (up 4.5IN), platy fine grained, moderately sorted, sub rounded, crumbly

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Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
							282.25 - 287.5	Anhydrite w/ interbedded efforescence, anhydrite is slightly platy, gray (7.5 YR 6/1) cohesive; very hard; scratches w/ finger nail, efforescence is white (up 9.5W), w/ very fine grained, well sorted, sub-rounded w/ selenite crystals, coarse grained sand size, translucent
							287.5 - 284.5	Claystone w/ mostly (>45%) interbedded crumbly efforescence and some (20-45%) anhydrite, clay is strong brown (7.5 YR 2/6) low to med plasticity, med flex ribbon, cohesive, very soft, dry to slightly damp, efforescence & anhydrite described as above, 2 inch layer of clay - light brown (7.5 YR 6/4), as above but slight damp to damp w/ little (10-25%) anhydrite - upto 3cm in diameter, not sticky
							284.5 - 289.5	Anhydrite w/ interbedded efforescence, light gray (10 YR 7/1), platy, cohesive, firm, but crumbly due to efforescence - white (9.5W up), very fine grained, well sorted rounded
							289.5 - 290	Gypsiferous siltstone, cohesive very hard, but will break @ weak points, interbedded w/ thinly plated selenite crystals up to 1 inch in diameter
							290 - 299	Siltstone w/ interbedded anhydrite, siltstone is gray (2.5 Y 6/1), cohesive, very hard, massive, trace (<5%) dolomite veins grades into siltstone w/ interbedded anhydrite, platy, shiny to silky luster, translucent to pink (7.5 YR 7/3), scratches w/ finger nail
							299 - 300.75	Siltstone, rough, massive, hard, will scratch w/ fingernail, very fine to fine grains, well sorted, subrounded, few (5-10%) selenite crystals, light reddish gray to reddish gray (2.5 YR 7/1 & 6/1)
							300.75 - 302.25	Dolomite light gray (5 YR 7/1), cohesive, firm, low dry strength grades to siltstone, Dolomite is porous, rough, well sorted, subangular, fine grained, dry strength increases as it grades siltstone is described as above. Dolomite stone rxn to HCl
							302.25 - 305	Anhydrite (>45%) mostly pulverized, translucent to pale brown to gray (2.5 YR 7/3 & 5/1), cohesive, very hard, scratches w/ finger nail



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Site	WDW-1-MW-1	Location Map
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Date Started	Date Completed	

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
								Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
							306.5-308.5	Anhydrite, massive, but pulverized, cohesive, very hard, scratches w/ knif, fing. difficult, translucent to light gray (Gley 7/1), some (20-45%) platiness
							305-306.5	Clayey siltstone w/ interbedded dolomite veins, slight HCL rxn, cohesive, firm, low to med. dry strength, light gray to light yellowish brown (2.5V 7/1 & 6/4) - crumbly
						GM	305.5-309	silty, gravelly, sand w/ few (5-10%) clay wet, gravel - up to 1.5 inch siltstone w/ interbedded dolomite - as above. Sand is fine to coarse grained, brownish yellow (5YR 6/6), subrounded to rounded, moderately sorted, loose to med. consistency. base of layer is thin (2-3") anhydrite (845%)
							309-310	Siltstone w/ mostly interbedded dolomite, HCL rxn, porous, cohesive, firm, but crumbly, low dry strength, few (5-10%) selenite crystals, cubic platy, translucent - siltstone is light gray (2.5Y 7/2), very fine w/ little (0-25%) med grains, subrounded, well-sorted, dry to slightly damp
							310-315	Clayey siltstones w/ interbedded anhydrite & efforescence. Siltstone is bluish gray (Gley 2.5/6.0), rough, no HCL rxn, massive and platy in some areas, slightly porous, very fine grained, well sorted, Anhydrite is translucent to white (wp 9.5/15), platy, scratches w/ fing or nail, efforescence are cohesive, soft-firm, fine grained, rounded, well sorted. When wet - siltstone slightly, to not sticky, no to low plasticity, weak ribbon
							315-320	Anhydrite, as described on 306.5, massive, white (8/1N wp)
							320-321.25	Claystone w/ interbedded anhydrite, claystone is dark reddish brown (5YR 3/1), cohesive, firm, dry, med. dry strength, crumbles when broken, no to very low plasticity, very weak ribbon, Anhydrite is platy, translucent, silty luster, ranges from med grained size to 1.5 inches in diameter
							321.25-324	Sandy siltstone, interbedded w/ little (0-25%) efforescence and anhydrite grading into (last 2.5 ft) anhydrite, reddish brown (5YR 5/3 to 4/4), well sorted, very fine to fine, rounded to subrounded, Anhydrite is massive, gray (5YR 5/1), scratches w/ finger nail



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Site	WDW-1 - MW-1	Location Map
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Drilling Method	Drill Rig Gaus Perch 400	
Date Started	Date Completed	

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
							324-325	Claystone, as described above, dry to very slightly damp, little (10-25%) efflorescence & anhydrite - up to (2 mm) diameter, angular crystals, platy
							325-229.75	Claystone, sh slightly damp to damp, strong brown (7.5 YR 4/6), mostly cohesive (45%), soft - very soft, none to low dry strength, none to very low plasticity, weak ribbon, mostly just crumbles
							229.75-335	Anhydrite w/ interbedded little efflorescence mostly (>45%) massive, some platyness, translucent to pinkish gray (7.5 YR 6/2), efflorescence is white (9.5/10 up), slightly porous, very fine grained, subangular, well sorted, both scratch w/ fingernail, neither rxn to HCl
							335-337.5	Anhydrite, platy, scratches w/ finger nail, massive, very hard, no HCl rxn, trace (5%) interbedded dolomite, translucent to dark grayish brown (10 YR 4/2), dry
							337.5-340	Claystone w/ interbedded anhydrite - up to 2 inches in diameter, as described above clay is wet, low to med plasticity, weak to mid strength ribbon, mostly (45%) cohesive, very soft, brown (7.5 YR 6/4)
							340-344.25	Claystone w/ interbedded anhydrite - slightly platy, translucent to white (9.5/10 up) claystone, s.s. strong brown (7.5 YR 4/6), little (10-25%) selenite crystals, cohesive, firm, med dry strength
							344.25-346	Clay w/ sandy clay w/ selenite crystals up to 1cm in diameter, med to high plasticity, flexible (mid), reddish brown (5 YR 4/4), cohesive, very soft, wet, drying out to damp towards base
							346-349.25	Sandy clay, 7.5 YR (4/6) strong brown fine to coarse sand, interbedded selenite moist, high plasticity, outside, inside was damp
							349.25-350	Interbedded anhydrite w/ quartz siltstone anhydrite (N/9.5) white, quartz siltstone (G/6) 7.5(Y) light green grayish. Claystone in bedded w/ anhydrite & 5 YR (3/6) dark red.

Interbedded



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Drilling Method		Drill Rig	
Date Started		Date Completed	

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
							350	Clay stone 2.5yr (3/4) dark red
							352.25	loose to slight cementity, very fine, slightly damp to dry, some anhydrite nodules, no reaction to HCL
					35		352.25	Clay stone 2.5yr (4/8) red, interbedded anhydrite, some Anhydrite nodules
							357.50	Dry, well cemented, no reaction to HCL - some selenite interbedding, fibrous
							357.50	Anhydrite - 2.5yr (2/4) light gray chalky, interbedded clay stone, Dry some platyness, very fine selenite x tails
							358-360.5	Clay - 5yr (4/8) yellowish red, mostly Dry to some moisture, interbedded Anhydrite and gypsum, stiff, very fine, gypsum is platy to Anhydrite is white.
							360.5-361.0	Clay w/ sand & some gravels, 2.5yr (3/4) dark red, some moisture, moderate plasticity, gravels are fine to coarse grained, sub angular to sub round, some gravels, 5 inches, interbedded Anhydrite.
							361.0-362.5	Anhydrite 10yr (5/1) white, chalky Dry, very fine, angular coarse grains, loose. Some very hard, coarse grains.
							362.5-365.0	Clay stone 5yr (3/4) yellowish red, mostly Dry with slight dampness, interbedded selenite, and anhydrite, stiff, no plasticity
							365.0-367.5	Claystone 2.5yr (3/4) dark red, center is stiff, interbedded single Anhydrite outer is saturated creating a gooey mud, some gravel

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DB24.1290 phase 1

367.5 - lost to mud / water mix
369 -



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Boring Log

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Site WDW-1-MW-1	Location Map
Logged by	Client/Project #
Boring Number	Drilling Co.
Drilling Method	Drill Rig
Date Started	Date Completed

PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
369 - 370							370.0	Claystone 2.5yR(4/6) red, mostly dry mottled w/ Anhydrite (Frosted) and selenite & gypsum, some very fine sand to silt. Brittle, trace of moisture not saturated. Does not react to HCL
							372.5	Claystone (2.5yR(3/6) red increase in moisture, mottled w/ Anhydrite, gypsum (platy) very fine to coarse x tails - trace plasticity. Crumbly,
							375.0	
							377	Clayey silt 2.5yR(4/6) red, very fine
							382.5	Some trace sand very fine. Damp, loose to trace plasticity, no evaporites present. Crumbly,
							382.5	Claystone 2.5yR(5/6) red, Dry, Brittle
							385	mottled with evaporite minerals, anhydrite gypsum, interbedded layers,
							385	Clayey silt 2.5yR(4/6) Damp to moist,
							387.5	Very fine grained, no visible evaporite minerals. Some plasticity mostly crumbly, trace very fine silt.
							387.5	Claystone 2.5yR(5/6) red, Dry Brittle to hard, inter bedded Anhydrite, (white) Frosted, Platy
							390	
							390	Claystone 2.5yR(3/4) dark Red. Damp to dry, inter bedded Anhydrite, & gypsum, hard, little to no plasticity, very fine grained.
							392.5	
							395	Anhydrite- 2.5y(8/1) white, cobble sized, hard, crushed to a powder, mostly cobble sized fragments.
							395	mostly thick clay has mixed with
							397.5	Formation water,

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397.5 interbedded Claystone w/ anhydrite.
 400 10yR(4/6) red with white anhydrite
 Dry Hard, Brittle, well cemented.



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Site WDW-1-MW-1							Location Map	
Logged by			Client/Project #					
Boring Number			Drilling Co.					
Drilling Method			Drill Rig					
Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
							400	
							402.5	Sample lost due to washout
							402.5	interbedded clay & Anhydrite, clay
							405	is 2.5yr (4/6) red, moist, very plastic
							410	due to mixture with upper 388' water
							410	same as above
							412.5	less moisture, almost dry.
							412.5	interbedded Anhydrite w/ quartz siltstone, white very hard quartz
							400-10	siltstone, Anhydrite soft to brittle.
							413.5	
							414.0	
							415.0	Claystone w/ anhydrite interbedded, 94p smu
							415.0	2.5 yr (4/6) red, Dry some dampness
							418.0	mostly hard, very fine sand
							418.0	interbedded claystone w/ anhydrite
							418	10R (3/6) dark red, clay is somewhat
							418	dry, trace plasticity.
							418	Clay, 10R (4/6) red, moist, contact with
							420	upper 388' water, very plastic,
							420	Clay w/ some gray shale, interbedded
							422.5	10R (5/6) red
							422.5	Shale Gley 2 (8/10B) light bluish gray
							422.5	Clay is damp, moderate plasticity
							422.5	interbedded clay w/ anhydrite
							425	2.5 yr (3/6) dark red, some moisture damp
							425	mostly hard low plasticity.
							407.5	

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Site WDW-1-MW-1							Location Map	
Logged by				Client/Project #				
Boring Number				Drilling Co.				
Drilling Method				Drill Rig				
Date Started				Date Completed				
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
							400	Sample lost to upper 308' water
							402.5	
							402.5	
							405.0	
							410.	interbedded clay with anhydrite anhydrite is white fine to very fine grained. Clay is damp, water from 308' may have affected clay - 2.5g (4/4) red, mixed w/ coarse gravels, High plasticity



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Boring Log

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Site WDW-1-MW-1							Location Map	
Logged by			Client/Project #					
Boring Number			Drilling Co.					
Drilling Method			Drill Rig					
Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
							427.5	Clay w/ anhydrite, 2.5yr (8/1) moist
							430	Mix with 308' water, Dense, to sat. moist clay has high plasticity.
							430	Anhydrite interbedded clay, moist due to mixing with 308' water.
							432.5	Clay is high plasticity, Anhydrite is 2.5yr (8/1) white, can be clean hard to crumble.
							432.3	Solid Anhydrite, laminated, Gley (6/N) gray.
							435	Interbedded Clay, 2.5yr (5/4) red moist, high plasticity, Anhydrite is dense very hard.
							435	Anhydrite w/ clay stone, 2.5yr (4/4) reddish brown.
							437.5	Brown, 10R (8/1) white, slight dampness to cuttings, clay has low plasticity interbedded with anhydrite, outer core wet from 308' water, Anhydrite is massive, dense, very hard
							440	Laminated, Gley (6/N) gray
							440	interbedded claystone w/ Anhydrite, 10R (3/4) dark red, Anhydrite is 2 (8/1) white
							442.5	Claystone is Dry Brittle, no plasticity. Anhydrite is hard powdery, some granular nodules to hard platy fragments.
							442.5	Clay Stone 2.5yr (3/4) dark reddish brown
							450	massive, dense, hard, Dry Anhydrite 10R (8/1) white, some massive Dense large Cobble size fragments



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Boring Log

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Site		WDW-1-MW-1		Location Map				
Logged by		Client/Project #						
Boring Number		Drilling Co.						
Drilling Method		Drill Rig						
Date Started		Date Completed						
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content								
					450		450	Claystone 2.5 yr (5/16) red,
					452.5		452.5	Claystone - 2.5 yr (3/16) dark red. Soft stone is moderate hard to brittle. W/ dry fine sand, clay stone is hard, breaks in sheets has Anhydrite nodules
					452.5		452.5	Claystone 2.5 yr (3/16) dark red, interbedded anhydrite, white, moisture due to mixing with 300' water
					455		455	Claystone 2.5 yr (3/16) dark red
					457.5		457.5	Dry to slight humid, Moderated hard to brittle, crumbly, Anhydrite nodules some very fine sand
					457.5		457.5	Claystone into Anhydrite, no
					460		460	Anhydrite - Gley 2 (7/16) light blueish gray. Both claystone and anhydrite are massive dense, very hard, Cobble fragments.
					460-462		460-462	Claystone, red (2.5 yr 4/16), trace (2.5%) interbedded evaporates, dry to slightly damp, med dry strength
					462.5		462.5	Mass. Siltstone, massive w/ few (5-10%) quartz crystals (up to 3mm), white (w/ 8/16), hard
					462.5-465		462.5-465	Claystone as described above, dry
					465-467.5		465-467.5	Clay, reddish brown (2.5 yr 4/16) soft, dry to damp, low to med plastic, weak ribbon, trace (2.5%) evaporates
					467.5-468.5		467.5-468.5	Claystone, as described above, dry, firm, few (5-10%) anhydrite layers
					470		470	inter bedded, grades into massive hard claystone
					470-480		470-480	Inter bedded layers of dry to damp clays, dry clays & hard claystone as above

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Site WDW-1-MW-1							Location Map	
Logged by			Client/Project #					
Boring Number			Drilling Co.					
Drilling Method			Drill Rig					
Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks <small>Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content</small>
						CL	480- 480.5	Clay, reddish brown (5YR 5/4), very soft to soft, med to high plasticity, flex ribbon, med strength, dry to damp, trace (5%) anhydrite plus crystals up to ^{1mm} in diameter to 2 inches
							480.5 -481.5	Claystone w/ mostly (>45%) interbedded anhydrite & evaporates, yellowish red (5YR 5/6), dry, med dry strength, evaporates & anhydrite are white (up to 1/4) to translucent to gray (6/4) (6/1)
							481.5 -484.5	as above 480-480.5, dry, reddish brown (2.5YR 4/4)
							485- 490	Claystone, dry w/ few (5-10%) anhydrite interbedded, med dry strength (~60%) & hard (40%), reddish brown (2.5YR 4/4)
							490- 492.5	Claystone, interbedded veins of anhydrite, red (2.5YR 5/6), dry, very hard, few (5-10%) scattered quartz minerals
							492.5 -496.5	Claystone, interbedded evaporates, red (2.5YR 4/4), soft, dry to slightly damp, no. to low plasticity, weak ribbon
							496.5 -497	Anhydrite, light gray (6/4) (4/1), massive, scratches w/ fingernail.
							497- -497.5	As Claystone as described above @ 497.5-496.5, slightly more plastic
							497.5 -500	Claystone as described in 492.5-496.5



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Boring Log

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Site		Location Map						
Logged by		Client/Project #						
Boring Number		Drilling Co.						
Drilling Method		Drill Rig						
Date Started		Date Completed						
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
WDW-4-BH-1 WDW-4 NW-1								
M. DUNBAR/D. MANUCIAN		HF SINGLAR						
		CASCADE						
SONIC		11-04928						
10-16-23		10-20-23						
								0-6 SANDY + GRAVELLY SILT (ML) REDDISH BROWN (2.5-4.5) SLIGHTLY MOIST; ~60% SECT, 30% V6-V6 SAND, 10% GRAVEL (1.5")
							10	6-27.5 ALABASTER; MOSTLY LIGHT GRAY (2.5-7.1) OCCASIONALLY DARK GRAY (2.5-4.1); DRY TO SLIGHTLY MOIST; DARK GRAY ZONES CONTAIN LARGE (~0.75") GYPSUM CRYSTALS SURROUNDED BY MICROCRYSTALLINE MATRIX; DARK RED CH (DESCRIBED BELOW) FROM 12-12.5, 13-15, 16.5-17.5, ALL MOIST
							20	27.5-37.5 CLAY (CH) DARK RED (2.5-4.2 3/6) MOIST - U. MOIST MED, STIFF-HARD; HIGH PLAST. FROM 33-34- ALABASTER AS 6-27.5 35-37.5 ALABASTER AS 6-27.5
							30	37.5-45 CLAY (CH) DARK RED (2.5-4.2 3/6) - U MOIST; 6" LAYER OF SANDY SILT (ML) FROM 44-46.5
							40	45-50 ALTERNATING 6"-12" LAYERS OF CH (27.5-37.5), ALABASTER (6'-27.5) AND SANDY SILT, MOIST-DRY
							50	50 ALABASTER AS 6-27.5; DRY, TRACE 1" LAYERS OF CH AS 27.5-37.5 FROM 55-57.5 AND 60-61.5 ALL MOIST
							60	65-66 ALABASTER, GRAY (2.5-4.2 S10) DENSE, W/ GYPS CRYSTALS, FINE, NO CLAYS
							70	66-67.5 INTERBEDDED CLAY IN ALABASTER, CLAY K DARK RED (2.5-4.2 3/6) SLIGHTLY PASTIC, NON SILTY
							80	67.5-70 ALABASTER; HARD, DENSE, MICROCRYSTALLINE, NO CLAY 70-72.5 ALABASTER, DARK GRAY (2.5-4.0) NO CLAY 72.5-74 ALABASTER, LIGHT GRAY (10YR 7/2) AS ABOVE 72.5-80 ALABASTER, CLAY, DARK GRAY (2.5-4.0) SLIGHTLY PASTIC, NON SILTY, SLIGHTLY MOIST
							90	80-90 ALABASTER, LIGHT GRAY (10YR 7/2) WITH SILTY STRIATIONS, OLIVE GRAY, CHALKY, NON PASTIC, SLIGHTLY MOIST
							100	90-95 ALABASTER, AS ABOVE 95-97.5 CLAY, STRONG BROWN (2.5-4.2 5/6) SLIGHTLY SILTY, NON PASTIC, GYPS STREAMS 97.5-100 ALABASTER, AS ABOVE



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Boring Log

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Site								Location Map
Logged by M. DUNBAR				Client/Project # HF SINCLAIR				
Boring Number WDW-4-BH1 WDW-4 MW-1				Drilling Co. CASCADE				
Drilling Method SONIC				Drill Rig 11-04928				
Date Started 10-11-23				Date Completed 10-20-23				
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
								100-102.5 ALABASTER, AS ABOVE
								102-103.5 SILT (ML) SAME AS 92.5-95
								103.5-110 ALABASTER, AS ABOVE
							110	110-111 CLAY (CL) LIGHT GRAY (10YR 7/1) SLIGHTLY SILTY, SLIGHTLY PLASTIC
								116-118 ALABASTER, AS ABOVE
							120	115-115.5 CLAY (CL) WHITE (10YR 8/2) MODERATELY PLASTIC SLIGHTLY SILTY
								121.5-118 ALABASTER, LIGHT BROWNISH GRAY (2.5Y 6/2) NO CHANGE, VERY FINE-MICROCRYSTALLINE, DENSE, HARD, TRACE CLAY (CL) LIGHT GRAY (10YR 6/1) NON SILTY, SLIGHTLY PLASTIC
							130	118-137.5 ALABASTER, AS ABOVE
								137.5-140 ALABASTER, SLIGHTLY DARKER, LIGHT GRAY (10YR 7/1) MICROCRYSTALLINE, DENSE VERY HARD
							140	140-141.5 ALABASTER WITH CLAY STRIATIONS, PINKISH GRAY (7.5YR 6/2) VERY SILTY, NONPLASTIC
								141.5-145 ALABASTER, AS ABOVE, NO CLAY
							150	145-147.5 DOLOMITE, LIGHT BROWNISH GRAY (10YR 6/2) MICROCRYSTALLINE, WEAK HCL REACTION, VERY DENSE, HARD
								147.5-150 ALABASTER, AS ABOVE



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Boring Log

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Site							Location Map	
Logged by			Client/Project #					
Boring Number			Drilling Co.					
Drilling Method			Drill Rig					
Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
			N/A	N/A	N/A			0-7.5 SELTY SAND (SM); LIGHT REDDISH BROWN (2.5 YR 6/3); & 70% VF-M SAND, 30% SCLT; TRACE E SAND - F GRAVEL
			CONTINUOUS				10	7.5-12 CLAY (CH); DARK RED (2.5 YR 3/6); MOIST; MED. STIFF; HIGH PLAST. 6" LAYER OF ALABASTER AS 9.5-12 DRY
			↓					12-22.5 ALTERNATING 6-18" LAYERS OF CH AS 7.5-12 AND DRY ALABASTER, LIGHT REDDISH BROWN (2.5 YR 7/3); WELL CONSOLIDATED CH IS SOFT-MED. STIFF
			↓				20	22.5-35 ALTERNATING LAYERS OF 6" ALABASTER; REDDISH BRN (2.5 YR 4/1); SCLT (ML); REDDISH BROWN (2.5 YR 4/3); DRY CLAYNY SCLT TO SILTY CLAY (ML/CL); RED (2.5 YR 4/6); MOIST; MED. STIFF; LOW PLAST.
							30	37.5-46 CLAY (CH); DARK RED (2.5 YR 3/6); MOIST; HARD TO MED STIFF; MOD TO HIGH PLAST; TRACE SCLT SAND, CLAY IN ALABASTER
							40	46-60 ALABASTER; LIGHT REDDISH BRN TO REDDISH BRN (2.5 YR 7/3) DRY; TRACE SEAMS OF CH AS 37.5-46; THEN (2.5 YR 4/4) LAYERS OF SCLT (ML); REDDISH BROWN (2.5 YR 5/4); MOIST TO SLIGHTLY MOIST
							50	
							60	60-72.5 CLAY (CH) AS 37.5-46; THEN SEAMS (2.6") OF ALABASTER AS 46-60 THROUGHOUT; THEN SEAMS (3.6") OF SCLT (ML); REDDISH BRN (2.5 YR 5/4); MOIST TO SLIGHT MOIST; APPEAR AT 68'
							70	72.5-77.5 ALABASTER AS 46-60 DRY
							85-105	77.5-85 CH AS 37.5-46; V. MOIST FROM 82.5-85 FIRST IS MOIST; THEN SEAMS (2.6") SCLT - ALABASTER
							80	85- ALABASTER AS 45-60 - DRY, N/ THEN SEAMS OF (2.3-6") CH AS 37.5-46; @ 97' ALABASTER OCCASIONALLY APPEARS AS LIGHT GRAY COLOR (NO MUNSSELL MATCH) CH ALL MOIST
							90	
							100	

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Site							Location Map	
Logged by WDW-2-BH-1			Client/Project #					
Boring Number WDW-2-BH-1			Drilling Co.					
Drilling Method			Drill Rig					
Date Started			Date Completed					
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks Soil type, color, texture, grain size, sorting, roundness, plasticity, consistency, moisture content
							85-105	SEE PG 1
							105-110	ALABASTER AS 45-60 DRY; COLOR IS PREDOMINANTLY GRAY (LIGHT GRAY)
							110-112.5	CALCAREOUS ALABASTER; GRAY WITH LIGHT OLIVE (2.54 5/16) C-BROWN MOTTLES; DRY; POROUS; SANDY W/ F.M SAND TITACE CLAYEY SCLT (ML); GRAY (7.54 5/1); MOIST
							112.5-117.5	ALABASTER AS 110-112.5 - DRY - NOT CALCAREOUS. 6"-12" SEAMS OF CH; OLIVE BROWN (2.54 4/4); MOIST; HARD - MED. STIFF; HIGH PLAST AND CH; GRAY (2.54 5/1); VERY MOIST; DRY - MED STIFF HIGH PLAST
							117.5-132.5	CH AS 37.5-46; V. MOIST; 2' LAYER OF ALABASTER 118-120; 3" LAYER OF SILTSTONE AS (ML); V. MOIST AT 121.5'; 6" LAYERS OF SILTSTONE FROM 125-132.5
							132.5-160	ALABASTER AS 45-60, DRY; 2' LAYER OF CH AS 37.5-46 CH IS MOIST - V. MOIST - CLAYEY SCLT (ML); 6CM VERY MOIST; 6" CLAY 144-145 1' LAYER OF CH AS 37.5-46 149-150. MOIST. 1' LAYER OF CH AS 37.5-46 FROM 151.5-152.5
							150	TD 150' @ 1655°
								TD 160' @ 0945 10/10

WDW-3-BH-1

TD @ 1240 (150')

TD @



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Boring Log

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Site		WDW-3-BH-1		Location Map				
Logged by		D. MANDURKAN		Client/Project #				
Boring Number				Drilling Co.				
Drilling Method		SONEL		Drill Rig				
Date Started		10/4/23		Date Completed				
PID/FID Reading	Blow Counts	Sampling Device	Sample Recovery	Sample Interval	Sample Number	USCS Symbol	Depth (feet)	Soil Description/Remarks
			Q	0-10	N/A		10	10-12.5 SANDY SILT (ML); REDISH BRN (2.5YR 3/2); SLIGHT MOIST; 40% V.F.C SANDS
							20	12.5-15 SILT (ML); RED (2.5YR 3/1) SLIGHT MOIST; TRACE V.F.C SAND + F GRAVEL
							30	15-17.5 SANDY SILT (ML); RED (2.5YR 3/1); SLIGHT MOIST; 20-30% V.F.C SAND TRACE F GRAVEL; FROM 15-17.5: TRACE NODULES OF CLAYEY SILT
							40	25-30 SILT (ML); RED (2.5YR 4/6); MOIST; TRACE F-F GRAVEL
							50	30-40 SILTY CLAY (CL) DARK RED (2.5YR 3/1) MOIST; V. LOW PLAST; MED STIFF 40-47.5 SILT (ML) RED (2.5YR 4/6); MOIST - V. MOIST; TRACE CLAY 47-47.5
							60	47.5-60: REDBROCK; SANDSTONE AS (ML), GRAY (2.5YR 8/1); FRAGMENTS OF 2"-4" QUARTZITE ALABASTER; REDDISH BRN (2.5YR 3/2) 50-52.5
							70	60-67.5 CLAYSTONE AS (CH); DARK RED (2.5YR 3/1); MOIST; MED STIFF; HIGH PLAST 67.5-69 SAME P.A. 47.5-60
							80	69-83 SAME P.A. 60-67.5; 2" SEAM OF SANDPACKED ML @ 80'; DRY BELOW 83-87.5 ALABASTER SANDSTONE AS 47.5-60
							90	87.5-95 ALABASTER MEDIUM THIN LAYERS OF SILT SAND + SAND CLAYSTONE AS 47.5-60 AND 60-67.5; ± 6" ± 12" LAYERS
							100	95-100 SANDSTONE AS 47.5-60
							110	100-107.5 CLAYSTONE AS 60-67.5
							120	107.5-115 SANDSTONE AS ML; RED (2.5YR 5/1); DRY; HARD NODULES; THIN 1/4" LAYERS OF GRAY SANDSTONE PRESENT
							130	115-120 SAME AS 87.5-95. CLAYSTONE. MOIST @ 115. DRY @ 120 120-126 ALABASTER AS 47.5-60 DRY 126-130 CLAYSTONE AS 60-67.5; V. MOIST 129-134; MOIST - V. MOIST 134-135 130-134 MOIST 135-136; 1 FOOT LAYER OF ALABASTER 138-140 (DRY)
							140	136-140 6" ALABASTER 145-145.5 (DRY); MOIST 145.5-150
							150	150-152.5 DOLOMITE; BLEND BROWN (2.5Y 4/3); FIN W. F. CL; DRY 152.5-159 CLAYSTONE AS CH; OLIVE (5Y 4/4); MOIST; MED STIFF; HIGH PLAST 159-160 CLAYSTONE AS 60-67.5; MOIST - V. MOIST

Appendix F

Field Investigation Photographs

WDW-1-MW-1



1. 3/31/2025: Hydrovac, 5.5 feet



2. 4/8/2025: Cascade tripping in drill string

P:_DB22-1334\Well Report_O-25\Appx_F_Photos\WDW-1-MM-1\pg01.doc



3. 4/6/2025: Clay at 202 feet bgs

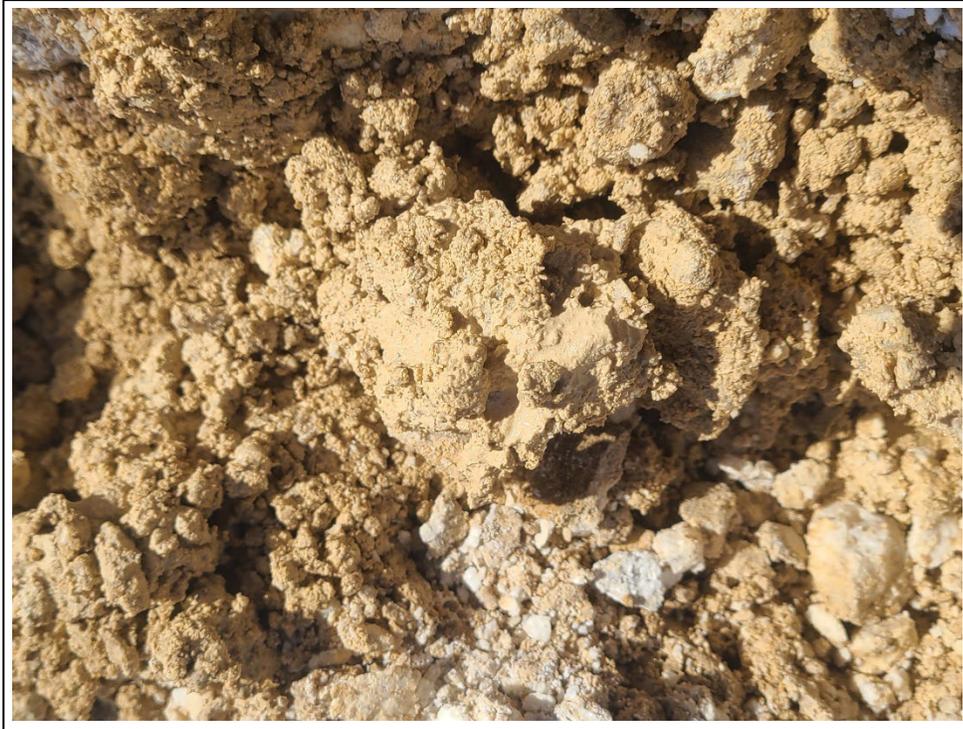


4. 4/7/2025: Anhydrite at 242 feet bgs

P:_DB22-1334\Well Report_O-25\Appx_F_Photos\WDW-1-MW-1\pg02.doc



5. 4/9/2025: Saturated zone at 308 feet bgs



6. 4/9/2025: Saturated zone at 308 feet bgs (close-up)

P:_DB22-1334\Well Report_O-25\Appx_F_Photos\WDW-1-MW-1\pg03.doc



7. 4/10/2025: Bailing groundwater



8. 4/26/2025: Cementing from total depth of 500 feet bgs to 325 feet bgs

P:_DB22-1334\Well Report_O-25\Appx_F_Photos\WDW-1-MM-1\pg04.doc



9. 4/7/2025: Pipe tally



10. 4/24/2025: Cascade setting centralizers on well casing

P:_DB22-1334\Well Report_O-25\Appx_F_Photos\WDW-1-MW-1\pg05.doc



11. 4/28/2025: Well casing and bollards cemented



12. 4/29/2025: Development

P:_DB22-1334\Well Report_O-25\Appx_F_Photos\WDM-1-MM-1\pg06.doc



13. 6/10/2025: QED pump installment



14. 6/10/2025: QED pump installment

P:_DB22-1334\Well Report_O-25\Appx_F_Photos\WDM-1-MW-1\pg07.doc

WDW-2-BH-1

P:_DB22-1334\Well Report.3-24\Appx E_Photos\WDW-2-BH-1\p01.doc



1. Hydrovac, facing north



2. Hydrovac, facing north



3. Drilling rig



4. Water level in dry borehole measured after borehole open for one hour

P:_DB22-1334\Well Report-3-24\Apx E_Photos\WDW-2-BH-1\p02.doc



5. Core samples from 10 to 20 feet bgs



6. Core samples from 82.5 to 105 feet bgs

P:_DB22-1334\Well Report-3-24\Apx E_Photos\WDW-2-BH-1\p03.doc



7. Core samples from 115 to 132.5 feet bgs



8. Core samples from 132.5 to 145 feet bgs

P:_DB22-1334\Well Report-3-24\appx E_Photos\WDW-2-BH-1\p04.doc



9. Core samples from 145 to 150 feet bgs



10. Core samples from 150 to 160 feet bgs

P:_DB22-1334\Well Report-3-24\appx E_Photos\WDW-2-BH-1\p05.doc



11. Abandonment

P:_DB22-1334\Well Report-3-24\Appx E_Photos\WDW-2-BH-1\p06.doc

WDW-3-BH-1

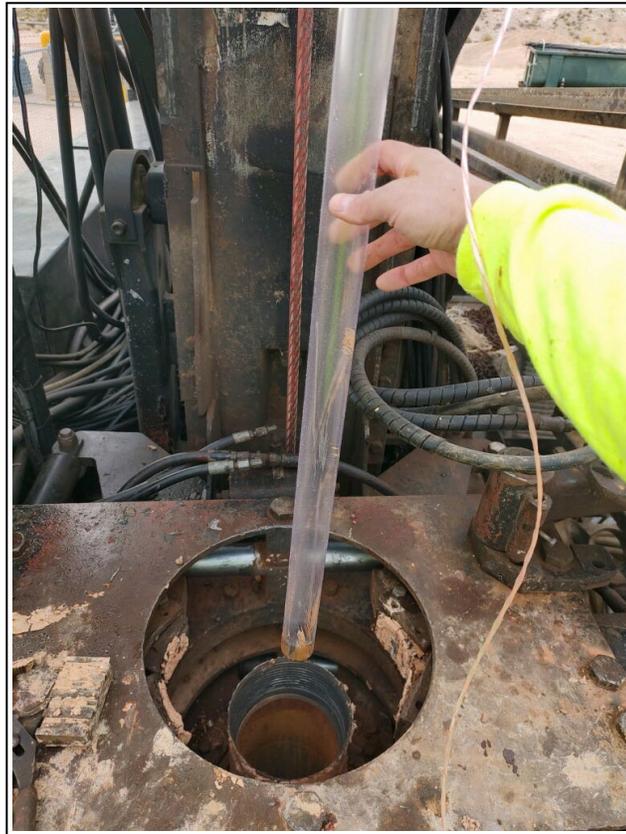


1. Hydrovac excavation at WDW-3-BH-1



2. Sonic drilling at WDW-3-BH-1, October 5, 2023

P:_DB22-1334\Well Report-3-24\appx E_Photos\WDW-3-BH-1\p01.doc



3. Bailer test for significant water after borehole open for 15 hours (overnight)



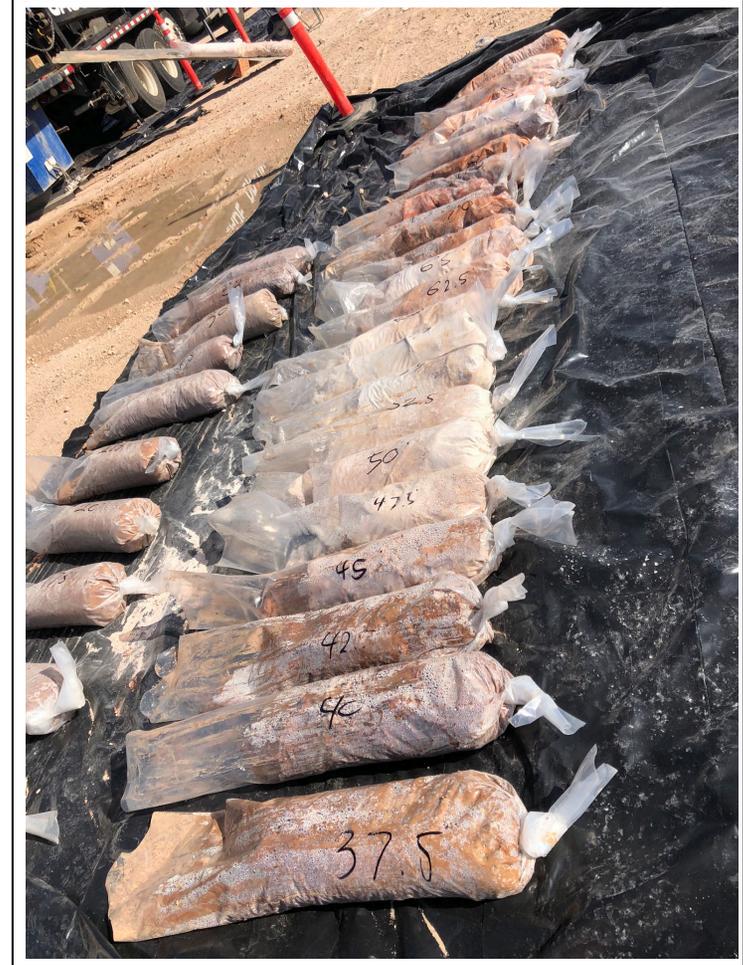
4. Rig decontamination

P:_DB22-1334\Well Report-3-24\appx E_Photos\WDW-3-BH-1\p02.doc

P:_DB22-1334\Well Report.3-24\Appx E_Photos\WDW-3-BH-1\p03.doc



5. Core samples from 2.5 to 12.5 feet bgs



6. Core samples from 37.5 to 115 feet bgs



7. Core sample at 80 feet bgs



8. Closeup of core sample at 80 feet bgs

P:_DB22-1334\Well Report-3-24\Apx E_Photos\WDW-3-BH-1\p04.doc

P:_DB22-1334\Well Report.3-24\Appx E_Photos\WDW-3-BH-1\p05.doc



9. Core sample from 82.5 to 85 feet bgs



10. Closeup of core sample at 82.5 feet bgs



11. Core samples from 105 to 115 feet bgs



12. Anhydrite closeup at 115 feet bgs

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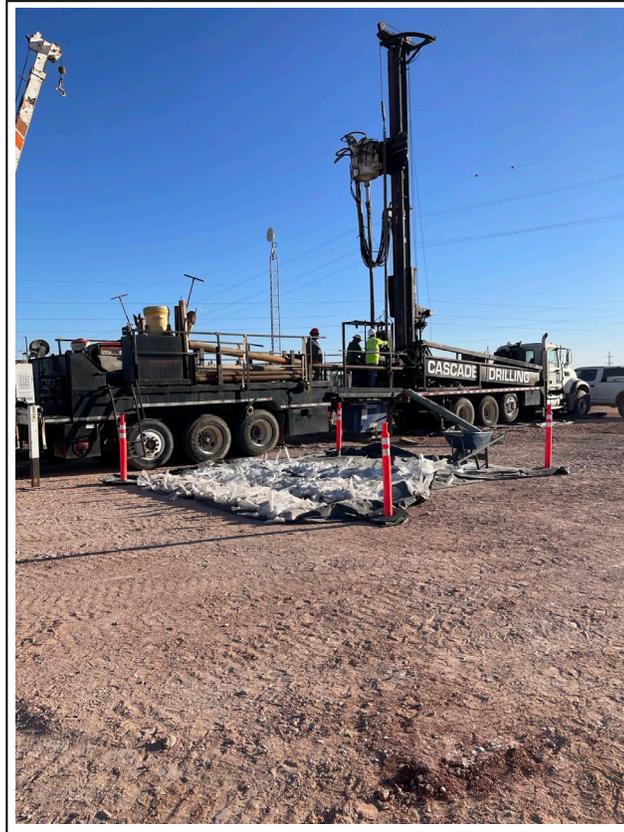
13. Core samples from 127.5 to 145 feet bgs



14. Clay at 130 feet bgs

P:_DB22-1334\Well Report-3-24\Appx E_Photos\WDW-3-BH-1\p07.doc

WDW-4-BH-1



1. Sonic drilling, WDW-4 BH-1, October 12, 2023



2. Core samples from 5 to 22.5 feet bgs

P:_DB22-1334\Well Report-3-24\Apx E_Photos\WDW-4-BH-1\p01.doc



3. Core samples from 17.5 to 32.5 feet bgs



4. Core samples from 28.5 to 48 feet bgs

P:_DB22-1334\Well Report-3-24\appx E_Photos\WDW-4-BH-1\p02.doc



5. Core samples from 52.5 to 65 feet bgs



6. Core samples from 62.5 to 95 feet bgs

P:_DB22-1334\Well Report-3-24\appx E_Photos\WDW-4-BH-1\p03.doc



7. Core samples from 97.5 to 112.5 feet bgs

P:_DB22-1334\Well Report-3-24\appx E_Photos\WDW-4-BH-1\p04.doc

Appendix G

Field Notes

Projects (continued)

SR

3/31/25

25

0705 SR, Cascade, & Shane (HF)
@ Guard State⁵⁰ Shack
waiting on badges.

Weather is clear, 43°F

H: 83 L: 59

Cascade crew

Brett

Miguel - Driller

Steve

Dakota

Hydrovac update from
Shane, they will be
back filling this
morning w/ clean
soil.

For water, we will see
what the guys doing
the hydrovac are
using.

Shane also mentioned
that he will be
handing us over to
Matt from Giles,
he takes care of all
things soil.

3/31/25				SR
0807	Arrived onsite.			
	Miguel, Brett, me do not have passes yet. HF has not received our drug screening.			
0816	Water will be delivered, 1,000 gal. Hydrovac - 5.5 ft.			
0827	Everyone offsite. Cascade will be delivering the rig. in about 1-1.5 hrs. I will be back for photos			
0940	S.R. & Cascade onsite. Rig & equipment onsite. Waiting on water to be delivered. Hydrovac filled			
1015	Water delivered			
1020	Center of hydrovac coordinates 32° 47.1008395' N 104° 12.83699802' W			
1023	Edge Delivery ^{SR} safety delivered the water 1,000 gal 24 barrels HF paid for it			

SR	Drilling ^{SR}	3/31/25
1040	Edge Safety offsite. Waiting on fork lift to move roll-off bin from drill site.	
1250	Herc GTH-5519 onsite	
1255	Equipment secured SR & Cascade offsite	
1320	I was able to get my badge	
1400	Correspondance w/ Shane (HF), he wants us to set up today if Cascade can get their badges	
1500	Brett was able to get his badge. Miguel (driller) is still waiting on his.	
1500	Correspondance w/ Shane, he said he will contact who he needs for the badge. Correspondance w/ Matt, he will be showing me where to get the work permits in the morning. Also,	

3/31/25 SR

he said S-Brothers will be removing one roll off bin from the site & replacing it w/ a new one, we should have two bins to work with.

1532 All personnel from security working on badging are off site. SR & Cascade off site.

4

SR Drilling 4/1/25

0624 SR & Cascade @ Security office. Sunrise, partly cloudy 64°F H: 83°F L: 45°F High wind warning

0715 Matt onsite to escort me to FCC control to get permits.

0737 Do not need hot work permit b/c we are working outside the fence. Permits will last 4 days.

0741 Back @ security office

0906 @ Security office still wait on the badge for the driller. Also, beginning to get windy

0933 Brett made the decision to set up the rig w/o Miguel.

0953 Cascade, minus Miguel, & SR onsite.

1003 Miguel onsite, w/ badge.

1005 Begin rigging up

1147 Begin drilling

1212 Drilled to 25', wind is

4/2/25	Drilling	SR
1302	@ 45 ft	
1336 ^{SR} 56	@ 50 ft	
1409	@ 55 ft	
1424	@ 62.5 ft	
1444	@ 70 ft	
1523	@ 72.5 ft	
1542	@ 80 ft	
1555	Shane onsite	
1615	Shane offsite	
1619	@ 85 ft	
1709	@ 90 ft	
1712	Rigging down	^{SR}
1744	@ 95 ft	
1750	Rigging down	
1755	SR & Cascade offsite	

SR	Drilling	4/3/25
0653	SR & Cascade onsite.	
	Cloudy, Raining, 56°F H: 64°F	
	L: 46°F. Rain should stop	
	around 9am.	
	Cascade warming up the	
	Rig, prepping for the day.	
0735	Resume drilling	
0820	Drilling has slowed down	
0839	@ 102.5	
0905	E. Bastien onsite	
0919	Shane & I onsite	
0925	Shane & Holt offsite	
0935	@ 105	
0958	@ 115	
1130	@ 120	
1151	@ 125	
1209	Lunch Break	
1230	Rig maintenance	
1243	Resume drilling, slowed down	
1305	Rig down	
1330	Resumed drilling	
1400	E Bastien offsite	
1405	Rig down, cascade	
	trouble shooting	
1425	Resumed drilling slowly	^{SR}

4/3/25 SR

1425 Trip out

1542 Done tripping out, update from Brett, they got stuck, needed to pour ~20 gal of water to get unstuck. They are currently welding a thicker shoe to try & prevent issue, going forward they may need to use more water, not a lot. We should be able to tell when we have natural water.

- When we need to bail, do we use the same roll-off, or do we get a second one for the water?

1610 Begin trip in.

1626 Correspondance w/ Matt, Hotwork rules outside the fence, have extinguisher & stay for 30 min after. S-Brothers will deliver totes for fluid waste in the morning. He will be my weekend contact, if needed.

SR 4/3/25

1730 Cleaning out the bore hole

1740 ~~Resume~~ drilling still clearing it out

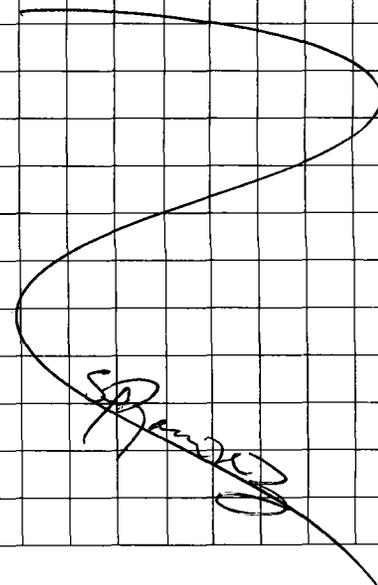
1800 Rigging down

1812 SR & Cascade offsite

Spanner

4/4/25	Drilling	SR
0653	SR & Cascade onsite Cloudy, breezy, wet, will rain on/off throughout the day 45°F H: 62°F L: 45°F	
0727	Warming up the Rig, setting up Update from Miguel, they have ~30 ft more of clean up, then they can resume drilling. We have a chance of thunderstorms today, we'll need to be vigilant.	
0738	Begin cleaning out the borehole	
0814	Shane & Nat onsite Nat is getting soil samples	
0835	Shane & Nat offsite	
0910	Giles onsite w/ tote for fluid waste	
0918	Giles offsite	
0955	Resume drilling	
1008	@ 130	
1042	@ 135	
1102	Tote delivered from Giles has old asphalt & trash in it.	
1108	@ 140	
1155	@ 145	

SR	Drilling	4/4/25
1234	Break for lunch	
1255	Resume drilling, rain has stopped for now	
1315	@ 147	
1345	@ 155	
1427	Raining again	
1448	@ Clearing out slough	
1515	@ 165	
1620	@ 167.5	
1705	@ 175	
1801	@ 180	
1808	Rigging down	
1825	SR & Cascade offsite	



4/15/25 SR

0656 SR & Cascade onsite
 Raining, dark clouds, breezy,
 43°F H: 44°F L: 30°, snow
 predicted noon.
 Warming up Rig, prepping for
 the day

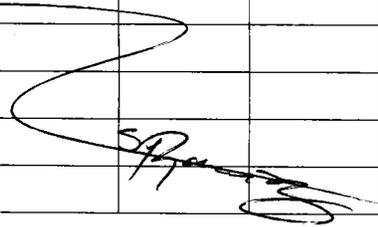
0817 Resume drilling

0825 Pause work do to wind
 causing unsafe conditions
 for connections

0902 Update from Miguel, still
 waiting to see if wind
 calms down. But windy
 conditions are expected to
 last all day.

0905 Cascade tripping out the rods
 they were able to get, &
 calling a stop work

0930 No progress made for the
 day SR & Cascade offsite



SR Drilling 4/6/25

0635 @ FEC Complex for permit
 Renewal

0722 SR & Cascade onsite, Rig is
 warming up
 Sunny, some clouds, 35°F
 H: 56°F L: 34°F, slightly hum

0747 Resume drilling

0806 Drilling is slow

0840 @ 185

0850 Area smelling of refinery
 due to work on WDW-1,
 inside the fence

0936 @ 190

1007 @ 195

1022 Correspondance w/ Chris &
 Elizabeth, ~1ft layer of
 gravelly, yellow brown clay
 has slight odor. (But it
 also just smells due to
 injection well work). Check
 PID Reading & it was
 3.2, outside air was 4.4.
 Will save and check
 it by EOD again
 Drilling still slow

4/6/25	Drilling	SR
1032	Injection well work done, Workers offsite	
1122	@ 200	
1208	@ 207.5	
1215	Break for lunch	
1239	Resume drilling	
1350	@ 215	
1446	Clearing slough	
1553	@ 225	
1728 ^{SR}	@ 230	
1735	Rigging down	
1745	Cascade & SR offsite	

SR	Drilling	4/7/25
0653	SR & Cascade onsite Clear, sunny, 37°F H: 70° L: 41°F, breezy Rig is warming up	
0741	Resume drilling	
0856	@ 235	
1009	@ 240	
1056	We must be in something hard, drilling slower than normal	
1117	@ 245	
1234	Break for lunch	
1249 ^{SR}	Resume drilling, siltstone has slowed it down	
1346	@ 252.5	
1501	Breeze is picking up, drilling still going slow	
1539	@ 260	
1653	@ 267.5	
1829	@ 270	
1836	Cascade Rigging down	
1849	SR & Cascade offsite	

4/8/25	Drilling	SR
0655	SR & Cascade onsite - warming up the rig 43°F Sunny, Clear, will get windy, H: 80°F L: 48°F	
0730	Resume drilling	
0800	As of now only the following clay layers have been slightly damp to @ most damp - 37-37.5, 37.5-40, 40-41.5, 42.5-44.5, 51.25-55, 59-61, 72-75, 77-79, 102-104, 119-120, 128-130, 130-134, 139- 141 ¹⁴² 42, 151-155, 155-162, 169-171, 175-178, 178-181, 187-188, 190-194, 200-205, 211-212, 238.5-239, 264-267.5	
0831	@ 275	
0918	Rig down / maintenance - hose busted, needs repair	
0933	Resume drilling	
1000	more rig maintenance	
1053	Resume drilling	
1109	@ 282.5	
1115	More maintenance	

SR	Drilling	4/8/25
1140	Resume drilling	
1240	Break for lunch	
1310	Resume drilling	
1331	Clearing slough	
1432	@ 290	
1500	Visit from Mike Holder + 6	
1517	Mike Holder + 6 offsite	
1530	Rig maintenance	
1540	Resume drilling	
1556	@ 295	
1731	@ 305	
1805	Rigging down for the day	
1812	SR & Cascade offsite	

4/9/25	Drilling	SR
0704	SR & Cascade onsite, warming rig, topping fluids	
	Clear sunny, 55°F H: 88°F L: 50°F	
	Breezes expected.	
0731	Resume drilling	
0805	Casey w/ HSF HFSNR onsite	
0814	Casey offsite	
0905	@ 310	
0926	~308 - bin wet gravelly clay, unconsolidated. Correspondence w/ Elizabeth, she suggested waiting @ least an hour for water	
0927	Cascade tagging bottom @ 313 btoc, 308 bgs	
0932	WL @ - inconclusive due to mud, reading 277 btoc Going to try again in 15 min	
1019	Had correspondence w/ Chris, he said to draft email of findings to Carl & suggested we run a bailer to see if there is any water. Cascade currently doing rig maintenance.	

SR	Drilling	4/9/25
	Spoke to Miguel about bailing and he said we will have some water due to the water they have been using to keep from getting stuck	
1040	Email sent to Carl & all regarding findings & photos	
1130	Running a bailer	
	Bailer seg, w/ mud on it	
1152	Resume drilling, correspondence w/ Chris & Elizabeth about it.	
1245	@ 315	
1309	Rig maintenance	
1328	Resume drilling	
1436	@ 320	
1542	@ 325	
1742	@ 332.5	
1745	Cascade rigging down for the day	
1802	SR & Cascade offsite	

[Handwritten signature]

4/10/25	Drilling	SR
0721	SR& Cascade onsite, SR renewed start work permit @ FCC complex. Rig warming up, supply delivery. Clear, breezy, Sunny, 51°F. Hi: 86°F, Li: 53°F	
0759	Resume drilling	
0930	@ 335 - dry anhydrite. Brett said they have water in the borehole.	
1004	Correspondance w/ Elizabeth, we will bail then wait for water accumulation. Outer casing is already 15 ft above area, they've already pulled ~30 gal this morning, they usually use ~5 gal/10 ft.	
1008	Cascade working on maintenance, will start bailing after	
1043	Begin bailing - asked Brett, he said the bailer holds 67 gal 5	

SR

1047	YST Calibration		
	124100566		
	pH	Actual	Temp (°C)
	4.00	4.01	19.6 19.6
	7.00	6.98	20.4
	10.00	10.01	19.6
	SpC		
	1413	1412	19.9
	ORP		
	223	222.9	21.0
1101	4/10/25 @ 1055		
	26.9 °C		
	673.0 mmHg		
	1.2 DO %		
	0.09 DO mg/L		
	5379 SPC ⁴ / _{cm}		
	5561 C ⁵ / _{cm}		
	7.64 PH		
	-608.1 ORP		
1145	100gal bailed, water is producing as fast as they can bail. Going to try to get a WL		
1200	312 bgs		
1211	310 bgs		

4/10/28 SR

1240 WL meter is being finicky,
306 bgs
The plan is to continue getting
levels up until 1300
Raise outer core to 300,
WL until OCD chimes in

1302 305 bgs

1307 Lifting to 300 now

1317 ^{prepping} to lifting now

1328 Lifting complete

1333 287 bgs

1330 Meeting w Mike & Carl

1342 284 bgs

1348 282 bgs

1352 Casey onsite

1404 279 bgs

1418 Casey offsite

1420 Roll off bin (2nd for fluids)
onsite

1442 278 bgs

1524 278 bgs

1609 278 bgs

1631 278 bgs

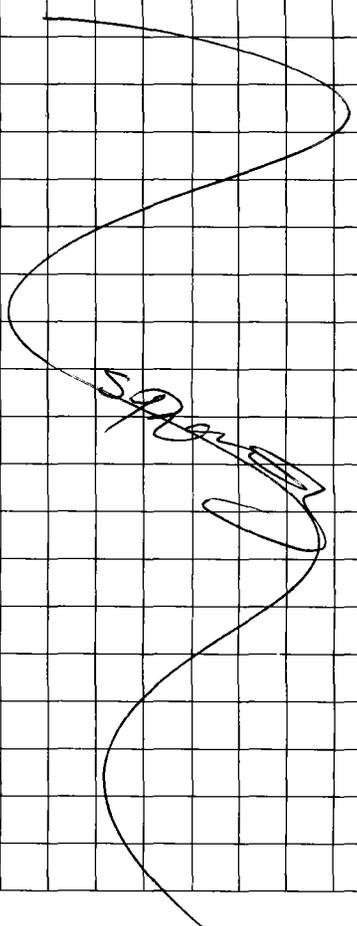
Had correspondance w/ Chris
& Elizabeth, notified DSE

SR 4/10/25

about the unexpected
artesian well we found,
waiting to hear back on
if we can proceed drilling

1758 278 bgs

1712 SR & Cascade offsite

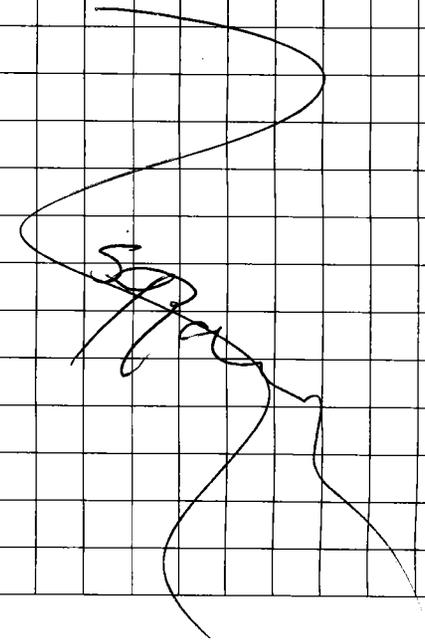


4/11/25	Drilling	\$ SR/IT
0815	SR & IT @ Cascade onsite, Israel is here to observe, badge still pending. WL - 278 kg 2 cubitainers of samples collected	
0850	Resume drilling	
0857	Casey onsite	
0914	Casey offsite	
0917	Casey onsite - 14 days need to take a fatigue day	
0930	@ 340 - wet	
0942	YSI info 20.8°C 673.9 mmHg 23.3 DO % 1.95 DO mg/L 6896 SPC ^{us/cm} 6391 C ^{us/cm} 6.63 PH 248.1 ORP	
1038	Water continues to spill out of drill rods while tripping out	
1042	@ 435 SR & 346	

SR/IT

4/11/25

1200	Drilling slowly, but steadily
1303	Break for lunch
1320	Resume Drilling
1347	@ 350
1444	@ 355
1538	Rig maintenance
1626	@ 358 Cascade beginning to pull casing to 300 for days off
1654	Cascade offsite
1700	SR & IT offsite



4/15/25 Drilling IT

0630 Met with crew outside hotel, met new crew member. He has not taken any classes and any drug testing. Drove to orientation center to ask for badge. Badge employee not on site until 7am.

0710 crew member had met credentials and got his badge. Crew is on cts way to site to warm up machinery and take a water level. I am staying behind to wait for Mat Giles so he can show me where need to go for work permit. Current work permit expires today at 1800.

0800 Got New Permit expires Thursday a 1800.

825 Called Chris Wolf and ask how long we need to wait out well. He stated an hour plus a ysl reading and water level every 15 minutes. Last reading well continue to take water levels to calculate Recovery.

839 Explained this to distiller setting up for Battery.

845 Calibrating ysl

pH	Actual	Temp °C
4.00	4.00	15.9
7.00	7.04	16.3
10.00	10.12	16.5
SPC		
7344		
1413	1413	16.2
ORP		
227	226.8	15.8
DO		
174.3 mmHg	9.25 mg/L	
112.9 %	85.4 %	13.1

4/18/25		Drilling		IT	
0854	Mutual water level				
	277.50	BGS			
904	Start Bailong				
0916	WL 278.50	BGS			
	pH	SPC	Temp ^c	orp	DO ^{mg/l}
	7.21	6804	22.0	16.3	2.20
945	7.59	6392	21.5	-22.5	14.75
1015	7.40	6432	22.0	-38.9	6.37
1056	7.33	6715	24.3	38.1	10.68
0945	⊙ 278.8	BGS			
1015	⊙ 278.6	BGS			
1033	279.00				
1035	278.00				
1036	278.50				
1038	278.05				
1039	278.00				
1042	277.95				
1045	277.80				
1049	277.50				
1058	80 gallons have been purged				
	Next step, derrick will				
	push casing up to 350'				
1112	Crew begins installing casing.				

4/18/25		Drilling		IT	
1131	Taking a total depth reading to find the amount of stuff in the whole.				
	Depth is 350				
	There is 8' of stuff in whole. Miguel needs to clean out before drilling ahead.				
1751	Crew tripping out of the hole.				
1846	Share on site conversation about drilling timing. let him know what the derrick had talked about				
1800	Crew left off at 368' sample was wet with for upper formation water IT crew off site				
IT					
4/18/25					

4/16/25 Drilling IT

0730 IT onsite, weather is 51°F clear skies crew is warming up equipment.

0742 Crew begins tripping into hole.

0839 Crew is now drilling.

0921 Crew tripped out to take sample

0929 Tripping back in

1009 Drilling ahead.

1022 tripping out.

1053 tripping back in

1200 Broke for lunch

1300 Back from lunch.

1556 crew measuring TD

1627 last sample cut 397.5
Fell out of casing. Crew is tripping back in and redrilling sample run.

1817 We reached 400' BGS. Crew is prepping to leave site

1830 IT & crew off site

4/16/25 IT

IT Drilling 4/17/25

0720 IT onsite, weather is clear skies 57°F. Crew is performing some site clean up before they start drilling.

0800 Driller ADDS casing to hole. Casing at 380'

830 Crew trips in and begins drill.

1012 crew has not been able to pull up cuttings. They keep getting washed out.

1200 Crew was able to get 405-410 sample, was very moist due to mixing with 308' formation water.

1538 Drilling has stopped due to high winds.

1615 IT & crew off site

IT

4/17/25

4/22/25 Drilling
 0748 IT on site, Crew on site, Weather 54° F Breezy Clear Skies
 0753 281.00
 817 Crew tripped on 3 casings.
 858 After some repairs crew begins tapping into hole.
 925 Crew begins drilling. Very hard material
 1017 Driller is having difficulty drilling ahead. Crew has paused drilling. Bit got too hot pausing to let bit and drill pipe to cool
 1127 Bit is stuck. Crew will add water to wash out bit. Called Matt and asked for more clean water.
 1146 Crew has stopped due to no water for drill pipe removal. Waiting for MATT to respond on water truck

IT Drilling 4/24/25
 1319 Pressure Services on site with water delivery. 900 gallons
 1327 Crew restarts drill pipe removal, installing casing 1st.
 1420 Crew was able to dislodge drill pipe and began to trip out.
 1500 Reached 415 ft casing
 1625 Crew reached 418' casing
 1818 Crew stopped at 422.5 all pipes tripped out plus 3 casings.

~~IT
 4/22/25~~

4/23/25 Drilling IT

0730 IT on site, Crew setting up and warming equipment weather is Breezy to windy 55° F.

0748 taking water level WL = 236.00
Water level increased after added water from ditch Bit Removal yesterday

0753 Crew begins to install 3 Casings.

830 Crew begins drilling

1401 crew is installing casing Drilling has been difficult currently at 437.5.

1810 Drilling stopped at 452.5

1830 IT / Crew off site

~~4/23/25~~

IT

IT Drilling 4/24/2

0730 IT on site, crew on site warming up equipment. Weather is 61° F Breezy Fog.

0748 WL - 275.50
1 crew member has been sick for the past 2 days. Will be replaced this weekend.

0810 crew begins tripping in casing. Progress is slow due to hard formation

0830 crew tripping in drill pipe.

1049 currently drilling at 457.5 ft.

1609 Samantha Ramirez on site crew has been tripping or cuttings have washed out crew had to trip back in and trip out to collect sample.

1613 spoke w/ Brett they will cement onsite, then pour using tremmie

1629 @ 465, Israel, Torres off site

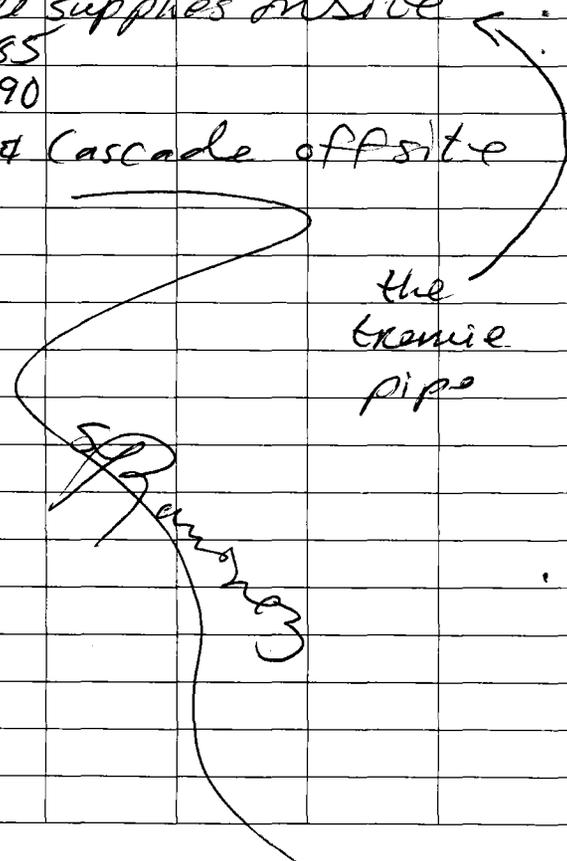
4/24/25	Drilling	SR
1825	Cascade calling it for the day.	
1830	SR & Cascade off site	

SR Drilling

SR	Drilling	4/25/25
0659	SR & Cascade onsite. Permit renewed Warming up the rig Partly cloudy, breezy 64°F H: 89°F	
0727	Starting up for Tuesday w/ some rig maintenance	
0742	Resume drilling SR	
0802	Resume drilling	
0930	@470, emptying hoppers	
0940	Resume drilling	
1104	Rig maintenance, bit is stuck	
1128	Called Matt to order more water to get unstuck	
1132	Begin pouring water down hole	
1152	Begin attempts to dislodge	
1212	Break for lunch, waiting on water	
1232	Pressure Services water onsite	
1249	Pressure Services offsite Resuming attempts to	

4/25/25 Drilling SR

dislodge
 1317 Pressure services back onsite w/ second tank of water - each 900 gal
 1327 Unstuck, tripping out row
 1339 Pressure services offsite
 1403 @480
 1536 More supplies onsite
 1403 @485
 1736 @490
 1757 SR # Cascade offsite



the tremie pipe

SR Drilling 4/26/25

0715 SR, Cascade onsite. Permit Renewed. Warming up the rig. Cloudy, slightly foggy, slightly humid, breezy, 65°F H! of 88°F
 0728 Begin trip in
 0813 Resume drilling
 0848 Begin trip out
 Spoke to Miguel, he said they use ~35 gal of water per 5-6 bags of cement + quick gel to help solidify the cement + cascade
 0911 Spoke to Brett, he said they usually use ~3.5 gal of water per cement bag.
 0926 @497.5
 0932 Begin trip in
 1000 Resume drilling
 1012 Begin trip out & breaking down drill rods
 1058 @500

4/26/25

SR

WDW-1-MW-1 Well Design

Well casing	Top Depth	Bottom	Total
Blank casing 4 in sch 80 PVC	+2	300	302
Screen 0.020 slot, 4 in sch 80 PVC	300	315	15
Sump w/ end cap	315	320	5

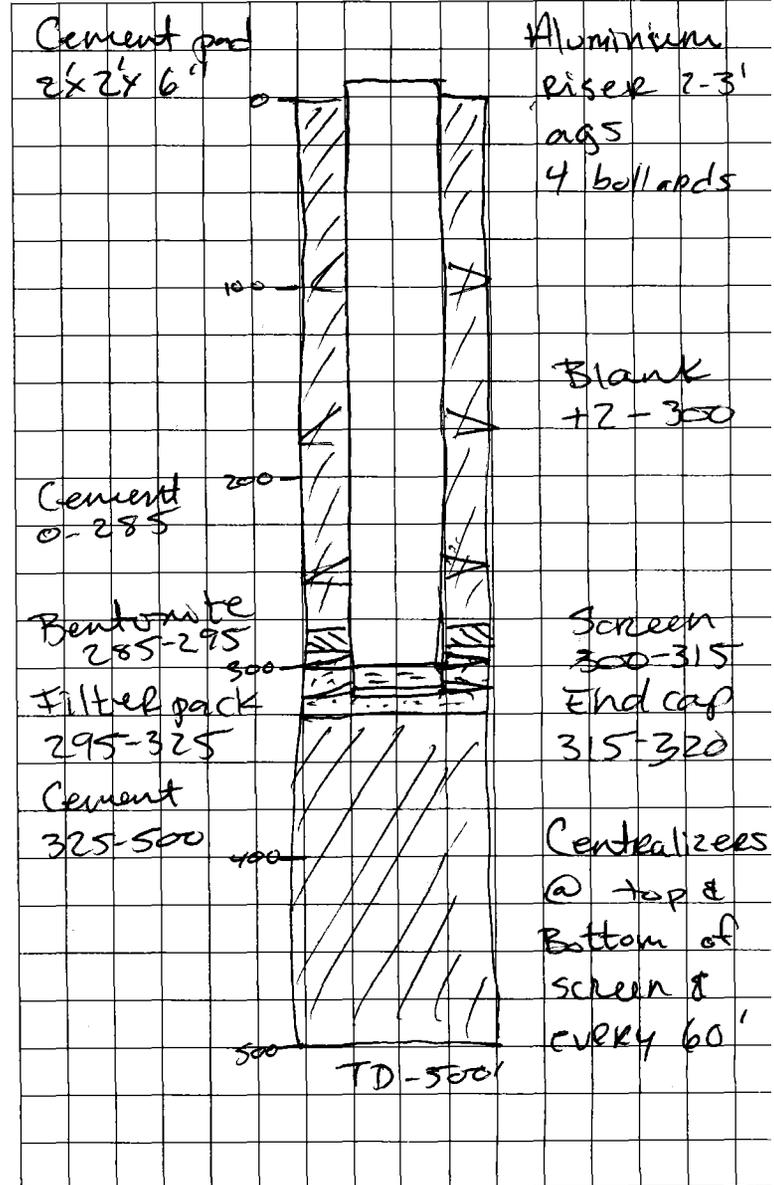
Annular Material	Top	Bottom	Total
Cement/Bentonite surface seal	0	285	285
Bentonite	285	295	10
Filter Pack #12/20 8/16 silica Sand	295	325	30
Cement/Bottom Seal	325	500	175

Cement
 $ft^3 = 0.005454 \times 8^2 \times 175$
 $ft^3 = 61.08$

SR

Well Design

4/26/25



For Cement - Base

460 gal water, 92 bags
for 11.5 batches

Each batch is 26 gal water,
8 bags, 20 lbs gel

Silica sand

$$ft^3 = 0.005454 (8^2 \cdot 4^2) 30$$

$$ft^3 = 7.85 = 58.72 \text{ gal}$$

Silica weighs between

12.9 to 16.3 per gal, so

757.48 ^{lbs} gal to 947.15 lbs

each bag is 50 lbs

15 to 18 bags

~~~2 bags ft per bag, closer~~

to 15 bags needed

Bentonite

$$ft^3 = 2.62$$

$$1 ft^3 = \sim 65 \rightarrow \sim 73 \text{ lbs}$$

$$170.3 \text{ lbs} - 191.26 \text{ lbs}$$

each bag 50 lbs

3.4 - 3.8 bags 3 or 4 bags

Cement

$$ft^3 = 74.61 \quad 1 ft^3 = 94 \text{ lbs}$$

$$7,013.41 \text{ lbs} (\frac{94}{74.61}) =$$

each bag is 50 lbs

~~~140~~ <sup>50</sup> bags cement 94

minus amount of gel
needed

4/27/25 Building the well SR

0710 SR & Cascade onsite. Warming the Rig. Foggy, cloudy, 65°F. H: 940F, winds will be picking up in the afternoon. Permit renewed.

0727 Spoke to Miguel, told him we need a pipe tally.

0729 Start pipe tally

0802 Tagging bottom - 35'

0837 Setting up to start building the well

0923 Begin adding the casing sump & screen w/ centralizers ^{top} _{bottom}

0935 Begin adding blank casing w/ centralizers every 60'

1055 Rig maintenance

1134 Begin gravel packing sand
Bags → IIII IIII IIII IIII IIII

1330 Break for lunch

1400 Begin Bentonite
Bags → IIII

1430 Hydrating bentonite
- 2 buckets of water 10 gal

1450 Trip out casing

1500 Sand tagged @ 295
Bentonite tagged @ 283

SR Pipe Tally 4/27/25

| sump | 5' | ✓ | |
|------|----------|---|------------------|
| 1 | 10 1/8' | ✓ | 3/16 = 0.1875 |
| 2 | 10 3/16' | ✓ | 1/8 = 0.125 |
| 3 | 10 1/8' | ✓ | 10 th |
| 4 | 10 3/16' | ✓ | 3/16 = 0.19 |
| 5 | 10 3/16' | ✓ | 1/8 = 0.13 |
| 6 | 10 3/16' | ✓ | 15/16 = 0.94 |
| 7 | 10 1/8' | ✓ | 1/16 = 0.06 |
| 8 | 10 1/8' | ✓ | |
| 9 | 10 1/8' | ✓ | |
| 10 | 10 3/16' | ✓ | |
| 11 | 10 1/8' | ✓ | |
| 12 | 10 3/16' | ✓ | |
| 13 | 10' | ✓ | |
| 14 | 10' | ✓ | |
| 15 | 10' | ✓ | |
| 16 | 9 15/16' | ✓ | |
| 17 | 10 1/8' | ✓ | |
| 18 | 10 1/8' | ✓ | |
| 19 | 10 1/8' | ✓ | |
| 20 | 10 1/8' | ✓ | |
| 21 | 10 1/8' | ✓ | |
| 22 | 10 1/8' | ✓ | |
| 23 | 10' | ✓ | |
| 24 | 10' | ✓ | |

redo on back

$1/8 \rightarrow 18 = 2.34$
 $3/16 \rightarrow 7 = 1.331$
 $15/16 \rightarrow 1 = 0.94$
 $1/16 \rightarrow 1 = 0.06$

 4.67
 $31 \times 10 = 310$
 $+ 9$
 $+ 5$

 324
 $+ 4.67$

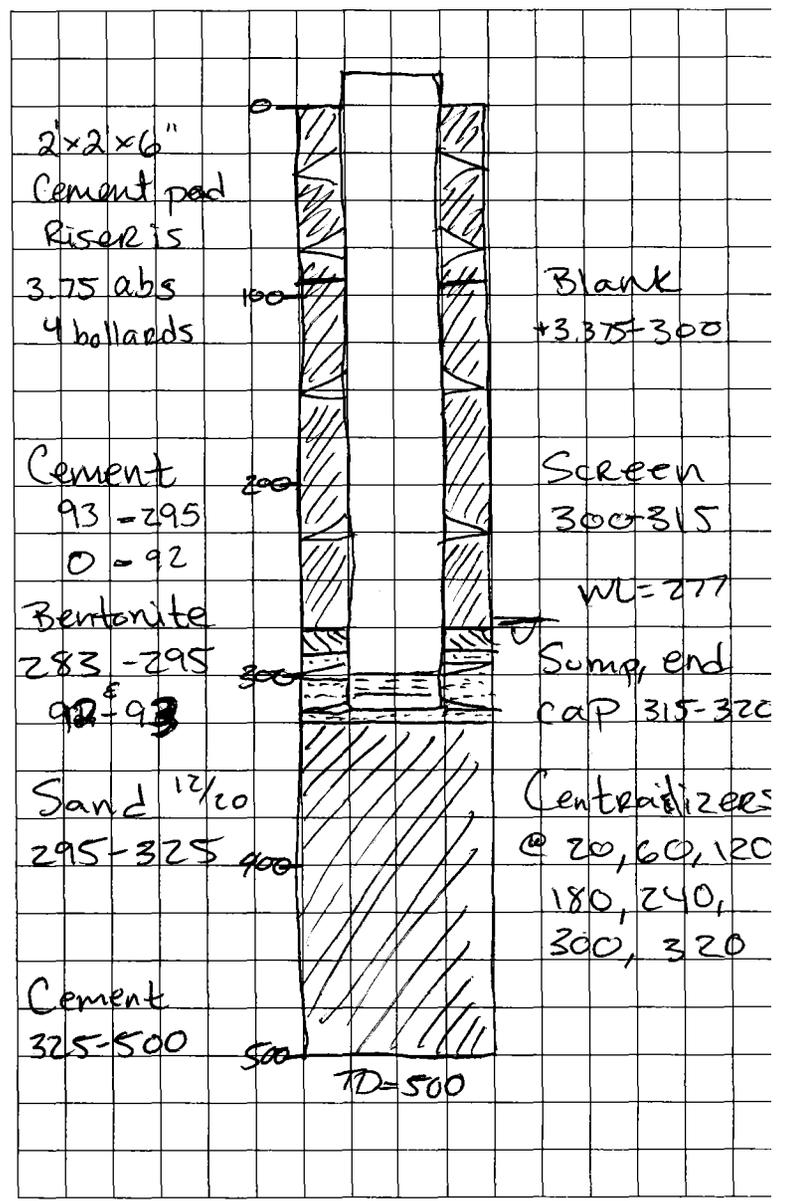
 328.67
 cut off 8.67
 $- 2'$

 6.67

4/27/25 Pipe Tally SR

| | | | |
|----|-------------------|---|--|
| 25 | 10'18' | ✓ | $\frac{1}{8} \times 18 = 2.34$ |
| 26 | 10'18' | ✓ | $\frac{1}{16} \times 1 = 1.33$ |
| 27 | 10'18' | ✓ | $\frac{3}{16} \times 1 = 0.94$ |
| 28 | 10'18' | ✓ | $\frac{9}{16} \times \frac{7}{8} = 0.06$ |
| 29 | 10'18' | ✓ | 4.67 |
| 30 | 10'18' | ✓ | |
| 31 | 10' | ✓ | screen |
| 32 | 10'16' | | screen remove |
| 33 | 5' | ✓ | screen |
| | 5' SR | | sump |
| | | | $10 \times 30 = 300 + 5 + 5 + 9 = 319$ |
| | | | $319 + 4.67 = 323.67$ |
| | | | stick up 2' |
| | | | 323.67 |
| | | | 321.67 |
| | | | 323.67 |
| | | | - 322 |
| | | | 1.67 to cut off |
| | | | centralizers @ 315 320 |
| | | | 300 |
| | | | 240 |
| | | | 180 |
| | | | 120 |
| | | | 60 |
| | | | 20 |

As Built



4/27/25 Building the well SR

| | | |
|------|---------------|----------------------|
| 1507 | Mixing cement | 1/5 bag quick
gal |
| | Bags → | |
| | | |
| | | |
| | | |
| | | |

4/28/25

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |

1520 Mixing cement & pumping it down. They are using a hose so I can't tell how many gallons of water. Brett requested to have more water delivered tomorrow morning.

1540 Spoke w/ Matt, he will get us more water tomorrow

1622 Cleaning up for the day

1631 Tripping out casing

1725 Added 1 bag bentonite to be able to tag

1740 2nd bag of bentonite added

1750 Clearing area

1805 SR & Cascade off site

SR Building the well. 4/28/25

0718 SR & Cascade onsite, permit renewed, Rig is warming. Clear to partly cloudy, 61°F, H: 88°F, will get windy. Cascade is also mob prepping

0757 Tagging bottom @ 92' bgs

0845 Finished cleaning up cuttings, waiting on water to continue cementing.

0941 Pressure Services onsite - 900 gal water delivered

1001 Begin setting up for cementing.

1012 Begin cementing

1025 Pulling casing

1053 Cementing

1145 Cement setting, Cascade cleaning up.

1210 310' bgs for pump target. Static 278' 280' bgs

low flow sampling

1230 Adding more cement

1250 Cleaning up

1330 Break for lunch

1353 Start setting up to finalize

4/28/25 Well Completion SR

the well

1415 Prepping the pad

1516 Setting the riser

1522 Cementing the pad

1549 Cleaning up area

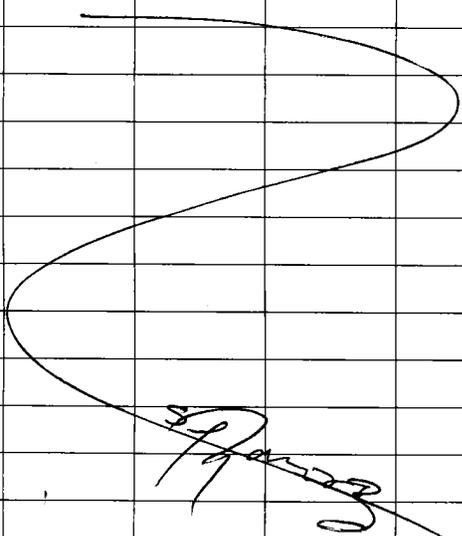
1630 Brett offsite to get more cement for bollards

1654 Brett onsite w/ cement

1710 Begin cementing bollards

1748 Phone GPS units
 Lat 32° 47' 06" N
 Long 104° 12' 50" W

1845 SR & Cascade offsite



SR Development 4/29/25

0713 SR & New Cascade crew onsite, Clear sunny 54°F H:85. Permit renewed

0723 New crew is Jerry. Jerry is setting up

0727 Spoke to Matt, he will be sending out a Roll-off bin for development

0737 WL 277.69 3.75' riser top of riser 3.35' casing

0742 YSI calibration

| pH | Actual | Temp °C |
|-------|----------------------------------|---------|
| 4.00 | 4.01 | 18.2 |
| 7.00 | 7.04 | 17.9 |
| 10.00 | 10.07 | 18.0 |
| SPC | | |
| 1413 | 1414 | 17.9 |
| ORP | | 17 SR |
| 223 | 220.9 | 17.3 |
| DO | | |
| | 100% SR 99% | 9.0 ~% |
| | 66.4 mg ^{mg} | |

0800 Start Bailing
 Binch bailed
 Plan is to bail, surge, bail, then dump

| Temp | DO mg/L | SPC | %em | P.H. | ORP | Turb | Time |
|------|---------|------|-----|-------|--------|-------|--------------|
| 22.2 | 3.6 | 6905 | | 11.75 | -30.9 | 58.5 | 0820 |
| 21.8 | 3.7 | 5829 | | 11.64 | -61.2 | >1100 | 0847 - surge |
| 22.9 | 3.6 | 7481 | | 11.67 | -128.4 | 74.5 | 1014 |
| 2.6 | 4.6 | 7110 | | 11.64 | -162.7 | 39.3 | 1027 |
| 2.7 | 4.7 | 7290 | | 11.72 | -104.5 | 9.72 | 1038 |
| 22.4 | 4.0 | 7426 | | 11.69 | -125.0 | 15.5 | 1045 - pump |
| 20.9 | 3.1 | 6147 | | 10.96 | -185.5 | 74.8 | 1538 |
| 15.2 | 2.7 | 6266 | | 10.27 | 193.8 | 37.7 | 1718 |

SR Development 4/29/25

| | |
|------|--|
| 0833 | WL- 273.94 bgs
30.07- 1 CV (gal)
90.21- 3 CV (gal) |
| 0835 | Miguel onsite to finish mob preparation |
| 0901 | 9 bails per 1 CV (~30 gal)
each bail is ~3.33 gal |
| 0906 | Update from Jerry, he said hes going to surge now, the grit isnt bad. After surging, he will bail again, if the grit still isnt bad, hell start pumping. |
| 0914 | WL- being weird b/c of mud, calling it @ 305.09 tac, 301.36 bgs |
| 0936 | Begin surging
Surge for 15 min |
| 1001 | Done surging |
| 1004 | WL- 300.18 tac, 296.43 bgs |
| 1010 | Resume bailing |
| 1047 | 2 VC purged (~60 gal), setting up to pump |
| 1102 | WL- 310.11 tac, 306.36 bgs |

| 4/29/25 | Development | SR |
|---------|---|----|
| 1105 | Tripping in pipe | |
| 1226 | Pump is set @ 319.5 bgs | |
| | Break to pick up turbidimeter & lunch. | |
| 1356 | Back onsite | |
| 1414 | Totalizer start @ 4206 | |
| 1419 | Struggling getting the w/meter down hole | |
| 1453 | Had to lift pump & set up to get w/meter down. & it doesn't work. Trying w/ Jerry's meter now | |
| 1457 | 281.09 toc w/ 277.72 bgs | |
| 1500 | Begin pumping at 4gpm | |
| 1507 | Pump difficulties
Troubleshooting
Turbidity meter calibration | |
| 1528 | Next attempt @ pumping | |
| 1531 | Got it to work | |
| 1533 | wl -> 287.90 toc, 284.15 bgs
RPMs on controller need to be higher, so do gpm | |
| 1535 | Start pump | |
| 1539 | wl -> 318 ^{toc} , dry | |

| SR | Development | 4/29/2 |
|-----------------|--|--------|
| 1602 | 400-500 NTU or lower aim | |
| 1607 | wl - @ 297 toc | |
| 1620 | Spoke to Elizabeth, running the higher gpm caused the well to go dry. The new plan is to do a bucket test to confirm the gpm on the totalizer surge w/ the pump by running it for 5 min, shutting it off, repeat. Tomorrow, after full recovery try flow test again, using tips provided by Jerry's boss | |
| 1634 | 292.74 toc | |
| 1657 | 289.23 toc | |
| 1705 | 288.21 toc | |
| 1714 | Bucket test | |
| 1717 | 5 gal / 50 sec
Well went dry again | |
| 1738 | SR & Jerry off site | |

| 4/30/25 Development | | SR |
|---------------------|--|----|
| 0727 | SR & Terry onsite, permit renewed, Clear, sunny 53°F | |
| | Hi: 80°F, breezy | |
| 0729 | Begin setting up for the day | |
| 0732 | wl - 279.50 toc 275.75 bgs | |
| 0735 | YSI calibration | |
| | PH Actual Temp | |
| | 4.00 3.98 14.4 | |
| | 7.00 7.05 14.4 | |
| | 10.00 10.02 14.5 | |
| | SPC | |
| | 1413 1402 13.1 | |
| | ORP | |
| | 223 225.2 13.6 | |
| | DO | |
| | 97% 9.4 mg/l 14.9 | |
| | 664.4 mmHg | |
| 0750 | Start pump | |
| 0755 | 1.25 gal / 1 min | |
| 0756 | 2 gal / 1 min | |
| | - Keeping it here | |
| 0806 | Dry 2305.61 toc | |
| 0822 | 302.81 toc | |
| 0831 | 300.52 toc | |
| 0840 | 298.45 toc | |

| Time | Temp | DO | SPC | PH | ORP | Turb |
|------|------|-----|------|-------|--------|-------|
| 0752 | 19.5 | 5.4 | 5415 | 10.34 | 57.2 | 151 |
| 0758 | 22.0 | 3.3 | 5854 | 10.29 | 17.4 | 30.6 |
| 0803 | 23.3 | 3.8 | 5785 | 10.88 | -118.2 | 126.2 |
| 1203 | 26.6 | 4.0 | 5715 | 10.73 | -72.4 | 118 |
| 1205 | 24.5 | 3.4 | 6271 | 9.76 | -106.5 | 326.2 |
| 1207 | 26.8 | 4.7 | 6277 | 9.62 | 65.8 | 87.7 |
| 1249 | 26.1 | 3.8 | 6029 | 9.84 | 129.0 | 1010 |
| 1251 | 25.1 | 3.6 | 6049 | 9.38 | 129.2 | 550 |
| 1327 | 26.2 | 3.6 | 6001 | 9.71 | -100.2 | 401 |
| 1328 | 24.9 | 3.1 | 6062 | 9.90 | -110.4 | 288 |
| 1332 | 24.9 | 3.1 | 5883 | 10.01 | -130.2 | 149 |
| 1434 | 27.4 | 3.1 | 6055 | 9.80 | -40.3 | 999 |
| 1436 | 26.5 | 2.6 | 6151 | 9.88 | -50.4 | 920 |
| 1438 | 25.8 | 2.7 | 6207 | 9.95 | -100.6 | 179 |
| 1440 | 25.4 | 3.2 | 6088 | 10.09 | -117.9 | 99 |
| 1444 | 26.0 | 2.6 | 6069 | 10.14 | -122.7 | 75.2 |

| 4/30/25 | Development | SR |
|-----------------------|--|----|
| 0906 | 293.45 toc | |
| 0934 | 289.24 toc | |
| 0945 | 287.81 toc | |
| 1044 | 283.16 toc | |
| 1103 | 282.24 toc | |
| 1130 | 281.35 toc | |
| 1154 | 280.71 toc | |
| 1202. | Start pump
2-1 gpm | |
| 1207 | Pump off 287.24 toc | |
| 1229 | 284.28 toc | |
| 1245 | 283.25 toc | |
| 1246 | Pump on 1gpm | |
| 1251 | Pump off 287.10 toc | |
| 1314 | 284.80 toc | |
| 1323 | 284.12 toc | |
| 1324 | Pump on 1gpm | |
| 1332 | Pump off 302.40 toc | |
| 1403 | 288.53 toc | |
| 1423 ^{SR} 32 | 285.6 toc | |
| 1432 | Pump on 1gpm | |
| 1444 | Raised to 6gpm | |
| 1445 | Dry - total gal pumped
7 ^{SR} is 75.00 gal | |
| 1448 | 319.72 | |

SR

4/30/25

| | |
|------|---|
| 1500 | Begin clearing well |
| 1556 | clearing up area |
| 1615 | SR & Cascade offsite. I will
be dropping off the
final permit @ the
refinery |

10/3/23

ARTESEA

DM

0900 DEPART AUSTIN OFFICE, PICK UP RENTAL TRUCK

1000 DEPART AUSTIN OFFICE

1830 DM ARRIVED AT HOTEL

10/4/23

0600 DEPART HOTEL, STOP FOR WATER ON WAY TO THE SITE

0630 ARRIVE AT REGENERY PARKING LOT, CALL JOSE (HESENCLAKE), WHO INFORMED ME I DO NOT NEED TO ATTEND MEETING, STAND BY

0745 MEET UP WITH CASCADE (GREG) AND HEAD TO THE FIRST LOCATION

0825 ARRIVE AT WDW-MN-1, CASCADE BEGINS TO PREP FOR DRILLING, HEALTH AND SAFETY MEETING

1100 CASCADE CONTINUES TO SET UP, JUAN ONSITE, DISCUSS PROGRESS, HAND AUGERED TO 5' BGS IN WDW-MN-1 PRIOR TO RIG PLACEMENT

1145 BEGAN DRILLING WDW-MN-1 W/ SONAR, 6" CORE BARREL W/ 8" BOREHOLE DIAMETER

1245 AFTER REACHING 25' BGS, CASCADE SHUT DOWN DRILLING TO PERFORM REPAIRS ON A BROKEN ROD BREAKER JAW. CASCADE CONTACTED JOSE WHO INFORMED THEM A HOT WORK PERMIT IS REQUIRED AS WELDING IS INVOLVED, CASCADE BEGAN ACQUIRING PERMIT

10/4/23

ARTESEA

DM

1430 CASCADE COMPLETED REQUIRED PERMITS, BEGAN REPAIRS

1515 COMPLETE REPAIRS. BEGAN SETTING BACKUP FOR DRILLING

1830, STRAPPED DRILLING FOR TODAY AT 475' BGS

1845 DM OFFSITE, WENT TO WALMART TO PICK UP PDE REQUESTED BY JUAN

1915 ARRIVE AT HOTEL

10/5/23

0600 DEPART HOTEL, STOP FOR GAS ON WAY TO SITE

0645 ARRIVE AT WDW-MN-1

0715 CASCADE ONSITE, CONTINUE DRILLING

1230 ELIZABETH + JOSE ONSITE

1830 END OF DRILLING FOR TODAY, REACHED 115' BGS NO ~~SE~~ SIGNS OF WATER OTHER THAN 1" STAIN OF SATURATED SOIL @ 80' BGS, DM OFFSITE

1900 ARRIVE AT HOTEL

10/6

0620 DEPART HOTEL 3

0700 ARRIVE AT WDW-MN-1

OTHER CASING 147'
OPEN HOLE 147'-150'

0715 CASCADE ONSITE, CONTINUE DRILLING

1240 REACH TD @ 150', NO OILS OR STAINING IN CUTTINGS

1255 DTW = DRY @ 150'

- 10/6/23 ARTESIA DM
- 1310 DTW IN WDW-3-MW-1 = DRY
 - 1325 DTW = DRY
 - 1500 ELIZABETH INFORMED DM THAT BOREHOLE SHOULD BE ADVANCED TO 155' BGS AFTER DISCUSSING WITH REGULATORS, CASCADE CONTINUES DRELLING
 - 1535 REACHED TD OF 155
 - 1545 ELIZABETH INFORMED DM THAT TD IS NOW 160' BGS CASCADE CONTINUES DRELLING
 - 1630 REACH TD OF 160, ELIZABETH INFORMED DM THAT NEW PLAN IS TO PULL OUTER CASING UP TO 75' BGS AND LEAVE HOLE OPEN FROM 75' 160' BGS
 - 1730 CASCADE PULLED OUTER CASING UP TO 75' BGS, 4' OF SUEP FEEL INTO HOLE, TD NOW 156' BGS ELIZABETH OFFSITE
 - 1745 DTW = DRY, ALL PERSONNEL OFFSITE

- 10/7/23
- 0630 DEPART HOTEL
 - 0700 ARRIVE AT THE SITE
 - 0750 USED BAUER TO CONFIRM HOLE IS DRY AT 156' UNABLE TO USE PROBE. DRY
 - 0810 ELIZABETH INFORMED DM WE HAVE APPROVAL TO ABANDON WDW-3-MW-1 WITH BENTONITE BACKFILL, CASCADE PREPARES TO ABANDON

- 10/7/23 ARTESIA DM
- 0830 BLM ~~MAN~~ SHOWED UP AT THE SITE AND ASKED US TO HALT OPERATION.
 - 0910 AFTER COMMUNICATION WITH BLM, ELIZABETH INFORMED DM THAT WE ARE GOOD TO CONTINUE ABANDONMENT EFFORTS ON WDW-3-MW-1, BLM OFFSITE, CASCADE CONTINUES ABANDONMENT
 - 0950 FILLED BOREHOLE WITH BENTONITE UP TO 3' BGS, 58 BAGS. 0-3' BGS FILLED WITH GROUT.
 - 1000 CASCADE DECONNED REG AND DRELL RODS AND MOVED TO WDW-2-MW-1
 - 1345 DM HAD 2 FLAT TIRES AND DROVE INTO TOWN FOR REPAIRS WHILE CASCADE SET UP FOR DRELLING
 - 1600 DM BACK ONSITE, CASCADE REACHED 27.5' BGS
 - 1830 COMPLETE DRELLING FOR TODAY, END AT 45' BGS ALL PERSONNEL OFFSITE

- 10/8/23
- 0630 DEPART HOTEL
 - 0700 ARRIVE AT WDW-2-MW-1, CONTINUE DRELLING, TAGGED BOTTOM OF BOREHOLE AND WAS DRY
 - 1845 CONTINUED DRELLING ALL DAY, NO ISSUES, REACHED BGS AND CALLED IT A DAY. ALL PERSONNEL OFFSITE

10/9/23 ARTESIA DM
0630 DEPART HOTEL
0700 DM ONSITE
0745 CASCADE ONSITE, PREPARE TO CONTINUE
DRELLING WDW-2-MW-1
0930
1000 JOSE ONSITE, DISCUSS PROGRESS AND STATUS
1030 JOSE OFFSITE
1655 REACHED TD OF 150', CALLED ELIZABETH AND
INFORMED HER THAT NO SATURATED ZONES
ENCOUNTERED.
1725 ELIZABETH INFORMED ME TO CONTINUE TO
160' AFTER DISCUSSION WITH OJD. CONTINUE
DRELLING
1835 STOP DRELLING FOR THE DAY, ALL PERSONNEL OFFSITE

10/10
0630 DEPART HOTEL, STOP FOR GAS ON WAY TO SITE
0745 DM + CASCADE ONSITE
0735 TAPPED BOTTOM OF HOLE AT 150', DRY CASCADE
CONTINUES DRELLING TO 160' BGS
0935 0950 REACH TD OF 160'
1025 ELIZABETH GAVE THE GO AHEAD TO ABANDON
WDW-2-MW-1 W/ BENT-GROUT MIXTURE
1300 COMPLETED BACKFILL OF WDW-2-MW-1, TOTAL OF
12 BAGS OF 20% BENTONITE / GROUT MIX AND 7 BAGS
OF PORTLAND CEMENT (FOR UPPER 5') USED

10/10/23 ARTESIA DM
1500 BEGUN MOBILIZING TO # WDW-4-MW-1
1845 REG SET UP ON LOCATION, COMPLETE WORK FOR TODAY
ALL PERSONNEL OFFSITE
10/11/23
0630 DEPART HOTEL
0700 ARRIVE AT THE SITE
0710 CASCADE ONSITE, PREPARE FOR DRELLING
0800 BEGUN DRELLING
1845 COMPLETED DRELLING FOR THE DAY, ENDED
AT 60' BGS, NO SIGN OF SATURATION, ALL PERSONNEL
OFFSITE

10/12
0630 DEPART HOTEL
0700 DM + CASCADE ONSITE, BEGUN DRELLING
0830 REG IS DOWN FOR REPAIRS, ADAPTER FLANGE
IS CRACKED AND NEEDS TO BE REPLACED BEFORE
DRELLING CONTINUES, STANDBY WHILE CASCADE FINDS
REPLACEMENT
1100 ELIZABETH INFORMED DM THAT WORK ON WDW-4-MW-1
WILL NOT CONTINUE UNTIL 10/18, DM PREPARES
TO MOBILIZE BACK TO AUSTIN
1145 DM OFFSITE

10-18-23

ARTESIA

MD

0900 DEPART HOTEL (CASCADE DIDN'T GET INTO ARTESIA UNTIL LATE YESTERDAY EVENING)

0930 ON SITE. CASCADE CREW MAKING REPAIRS (REPLACED FLANGE ADAPTER)

1100 REPAIR DONE. START DRILLING AGAIN ON WDW-4 MW-1 @ 65', SONIC DRILLING, 6" CORE BARRELL AND 8" BORE HOLE DIAMETER, RUN CORE BBL AND PIPE BACK TO BOTTOM

1145 DRILLING NEW HOLE.

1330 @ 70' GREG HAD TO ADD ± 5 GALS WATER. HE COULDN'T GET CORE BARREL TO ADVANCE. GOT OK ON WATER FROM CHRIS WOLFE

1530 FINISH FOR TODAY. T.D = 85' OFF SITE

10-19-23

MD

0630 DEPART MOTEL

0700 ON SITE. RESUME DRILLING WDW-4 MW-1 @ 85.

- SMALL AMOUNT OF WATER ADDED TO HOLE WHEN CORE BARREL WAS HANGING UP. ± 10 GALS TOTAL.

1830 OFF SITE. T.D = 132'

10-20-23

ARTESIA

MD

0630 DEPART MOTEL

0700 ON SITE. RESUME DRILLING @ 132.5'

1000 CHANGE FROM MOSTLY BGL ALBASTER TO

BROWNISH GRAY MICLEN ROCK W/ WEAK

ACID REACT. (THOUGHT) SMELLED HYDROCARBON ODOOR. COLLECTED BAGGIES AND DID PID ON THEM. NOTHING DETECTED.

- FINISH DRILLING TO 150'. CASCADE DOESN'T HAVE ANOTHER ROD THAT IS NOT DAMAGED. GREG (DRILLER) SAYS IT WOULD TAKE A DAY TO GET ONE ON SITE. GOT OK FROM E. BASTIEN / C. WOLFE TO STOP @ 150'

- LAY DOWN CASING, RODS, CORE BARRELL AND PILE UP TO PILE HOLE W/ GROUT. USE 1" PVC AND HOSE FOR TRENCH PIPE.

1920 START PUMPING BENTONITE / PORTLAND CEMENT GROUT

1420 FINISH GROUTING & RIF DOWN. ALL CUTTINGS PLACED IN ROLL-OFF.

- 12 BAGGS BENTONITE GROUT W/ 24 GALS PER BAG

- 1 BAG CEMENT.

- GROUT UP TO 1' B.G.S. CEMENT ON LAS 1'

1530 FOLLOW SUPPLY TRUCK & FRONT END LOADER TO WDW-MW-1 TO DECON.

1615 ON SITE. DRILLER & CREW WENT TO

10-20-23

ARIZONA

1000

GET PRESSURE WASHER. I WAS
GOING TO BE AT LEAST 2 HOURS
UNTIL THEY GOT BACK. I LEFT
SITE AND RETURNED TO WYBOK.
DRIVER SENT ME A PICTURE OF
THEM DECONING PIPE ON SUPPORT
TRUCK

| Time | Vol l ^{iter} | Temp °C | DO mg/L | SPC mg/cm | pH | ORP | Turb |
|------|-----------------------|---------|---------|-----------|-------|--------|------|
| 1009 | initial | 21.9 | 2.9 | 5866 | 10.66 | 13.2 | 17.0 |
| 1015 | .5 l ^{iter} | 21.6 | 0.9 | 5881 | 10.99 | 7.2 | 13.1 |
| 1021 | 2.0 | 21.8 | 0.5 | 5854 | 11.02 | -26.4 | 9.06 |
| 1028 | 3.0 | 21.7 | 0.5 | 5904 | 10.92 | -51.8 | 11.4 |
| 1033 | 4.0 | 22.2 | 1.5 | 5906 | 10.99 | -66.5 | 8.96 |
| 1040 | 4.5 | 22.0 | 0.5 | 5887 | 11.00 | -78.4 | 7.71 |
| 1045 | 6 | 21.7 | 0.6 | 5889 | 11.00 | -80.9 | |
| 1050 | 6.75 | 21.7 | 1.2 | 5900 | 11.04 | -89.5 | 12.6 |
| 1057 | 8.0 | 21.7 | 0.5 | 5890 | 10.99 | -95.5 | 8.86 |
| 1102 | 9.0 | 21.8 | 0.6 | 5897 | 10.97 | -92.4 | 13.9 |
| 1108 | 10.0 | 21.8 | 0.4 | 5885 | 10.99 | -100.2 | 11.9 |
| 1114 | 11.0 | 21.7 | 0.2 | 5882 | 10.99 | -105.2 | 17.7 |
| 1121 | 12.0 | 21.8 | 1.1 | 5895 | 10.96 | -110.8 | 15.8 |
| 1126 | 13.0 | 21.8 | 0.4 | 5899 | 10.99 | -112.5 | 9.83 |
| 1129 | 13.5 | 21.8 | 2.9 | 5894 | 10.97 | -118.9 | 7.12 |

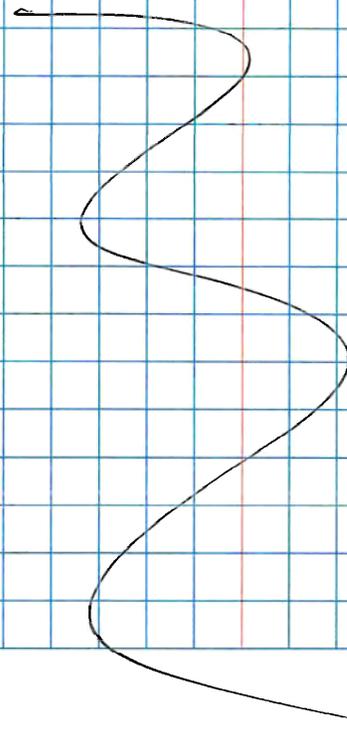
DBSA controller. The rental needed constant psi adjustments

1054 Control settings on manual
60.0 ref/ 30 discharge
max psi 170

1113 w1-285.01 toc

1132 Total purge 16L
sample @ 1332
WDW-1-MW-1 20250610

1257 All samples on ice
DBSA offsite



8/28/25 Q3 Sampling SR/IT

0830 SR/IT onsite
Sunny, sparse clouds 74°F
H: 97°F

Tailgate H5

Began set up

0900 Minor delay, headed to Roswell
to resolve

1130 Resume set up

1040 WL- 278.30 TOC
YSI Calibration

| PH | Actual | Temp °C |
|--------------|--------------|---------|
| 4.0 | 4.0 | 28.0 |
| 7.00 | 7.0 | 27.8 |
| 10.00 | 10.00 | 27.7 |
| SPC | " | " |
| 1413 | 1413 | 28.7 |
| ORP | " | " |
| 210.0 | 219.9 | 28.9 |
| DO | " | " |
| 1007.7 mm Hg | | 26.7 |
| | 6.97 mg
L | |
| | 87.2% | |

SR/IT

8/28/25

1200 Turned on pump
MN Refill 60

Discharge 30

1248 283.19 WL TOC

1445 291.75 WL TOC

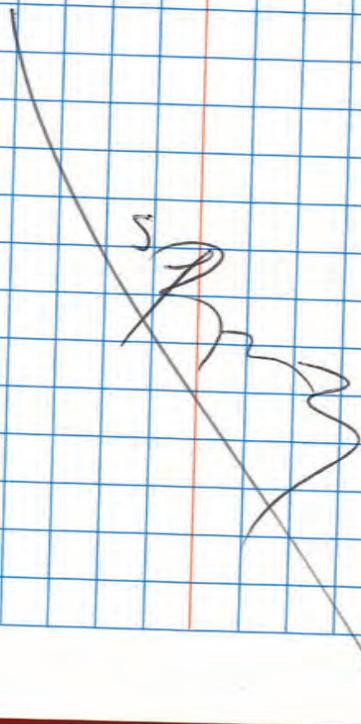
Volume purged, just under
5 gal

Samples collected

WDW-1-MW-1-20250828 @ 1400

Dup-20250828 @ 1300

1522 Permit closed



Appendix H

OSE Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | |
|--|---|----------|-------------------------------|---------------|-----------------------------------|---|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.)
POD 1 | | WELL TAG ID NO.
WDW-1-MW-1 | | OSE FILE NO(S).
PA-13536 POD 1 | |
| | WELL OWNER NAME(S)
HF Sinclair Navajo Refining LLC | | | | PHONE (OPTIONAL) | |
| | WELL OWNER MAILING ADDRESS
501 East Main Street | | | | CITY
Artesia | STATE
NM |
| | | | | | ZIP
88210 | |
| | WELL LOCATION (FROM GPS) | LATITUDE | DEGREES
32 | MINUTES
47 | SECONDS
6.27 | N
* ACCURACY REQUIRED: ONE TENTH OF A SECOND |
| | LONGITUDE | -104 | 12 | 50.44 | W
* DATUM REQUIRED: WGS 84 | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE
SW 1/4, SW 1/4, SE 1/4 Sec 31 T 17S R 28E | | | | | | |

| | | | | | | | | |
|----------------------------------|--|-----|--|--|--|---|---|--------------------|
| 2. DRILLING & CASING INFORMATION | LICENSE NO.
1664 | | NAME OF LICENSED DRILLER
Shawn Cain | | | NAME OF WELL DRILLING COMPANY
Cascade Drilling LP | | |
| | DRILLING STARTED
4/1/25 | | DRILLING ENDED
4/28/25 | | DEPTH OF COMPLETED WELL (FT)
320 | BORE HOLE DEPTH (FT)
500 | DEPTH WATER FIRST ENCOUNTERED (FT)
310 | |
| | COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN *add Centralizer info below <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT)
277.7 | DATE STATIC MEASURED
4/30/25 | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic | | | | | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 300 | 8.5 | 4" Sch 80 Blank | Flush | 3.826 | .337 | |
| | 300 | 315 | 8.5 | 4" Sch 80 Factory slot screen | Flush | 3.826 | .337 | .020 |
| | 315 | 320 | 8.5 | 4" Sch 80 Blank | Flush | 3.826 | .337 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | | | | | |
|---------------------|------------------|-----|---|---|---------------------|---------------------|
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL
<i>*(If using Centralizers for Artesian wells- indicate the spacing below)</i> | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
| | FROM | TO | | | | |
| | 0 | 2 | 8.5 | Concrete with vault | 1.5 | Pour |
| | 2 | 285 | 8.5 | Cemnet grout with 5% bentonite per weight | 81 | Tremie Pumped |
| | 285 | 295 | 8.5 | 3/8" Bentonite chips | 2.64 | Puor |
| | 295 | 320 | 8.5 | 12/20 sand | 8.5 | Pour |
| | 320 | 322 | 8.5 | 3/8" Bentonite chips | .7 | Pour |
| 322 | 500 | 8.5 | Cement grout with 5% bentonite per weight | 51 | Tremie Pumped | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

| | | |
|----------|-----------------|-------------|
| FILE NO. | POD NO. | TRN NO. |
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 |

OBS HF Sinclair 113-23-1126

WDW-2-MW-1



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: WDW-2-MW-1 WDW-2-BH-1

Well owner: HF Sinclair Navajo Refining LLC Phone No.: 575-746-5487

Mailing address: 501 East Main Street

City: Artesia State: New Mexico Zip code: 88210

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling L.P
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: _____
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): _____
- 4) Date well plugging began: 10/10/2023 Date well plugging concluded: 10/10/2023
- 5) GPS Well Location: Latitude: 32° deg, 45 min, 48.9843 sec
Longitude: 104° deg, 14 min, 18.9962 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 160' ft below ground level (bgl),
by the following manner: Tremie from bottom up with Neat Cement
- 7) Static water level measured at initiation of plugging: 0 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 6/5/2023
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Drill to 160' and the hole was dry. Plugged the bore back from 160' to 0 using Neat Cement and Tremied from the bottom up.

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

| <u>Depth</u>
(ft bgl) | <u>Plugging Material Used</u>
(include any additives used) | <u>Volume of Material Placed</u>
(gallons) | <u>Theoretical Volume of Borehole/ Casing</u>
(gallons) | <u>Placement Method</u>
(tremie pipe, other) | <u>Comments</u>
("casing perforated first", "open annular space also plugged", etc.) |
|--|---|---|--|---|---|
|  | Neat Cement | 356 gallons | 341 gallons | Tremie | Dry bore hole grouted from bottom up with Neat cement using Tremie pipe |

| MULTIPLY | BY | AND OBTAIN |
|---------------|--------|------------|
| cubic feet x | 7.4805 | = gallons |
| cubic yards x | 201.97 | = gallons |

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



 Signature of Well Driller

10-31-23

 Date

DBS HF Sinclair 113-23-1126 WDW-2mw-1



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | |
|--|---|---------------------|-----------------|--------------------|----------------------------------|--|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.)
POD 1 (WDW-2MW-1) | | WELL TAG ID NO. | | OSE FILE NO(S)
RA-13331 | |
| | WELL OWNER NAME(S)
HF Sinclair Navajo Refining LLC | | | | PHONE (OPTIONAL)
575-746-5487 | |
| | WELL OWNER MAILING ADDRESS
501 East Main Street | | | | CITY
Artesia | STATE
NM |
| | | | | | ZIP
88210 | |
| | WELL LOCATION (FROM GPS) | DEGREES
LATITUDE | MINUTES
45 | SECONDS
48.9843 | N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND |
| | LONGITUDE | 104° | 14 | 18.9962 | W | * DATUM REQUIRED: WGS 84 |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE
SW1/4, SW1/4, NW1/4, Sec 12, T18S, R27E | | | | | | |

| | | | | | | | | |
|----------------------------------|---|--|---|--|---|---|--------------------------------|--------------------|
| 2. DRILLING & CASING INFORMATION | LICENSE NO.
1664 | NAME OF LICENSED DRILLER
Shawn Cain | | | NAME OF WELL DRILLING COMPANY
Cascade Drilling L.P | | | |
| | DRILLING STARTED
10/8/2023 | DRILLING ENDED
10/10/2023 | DEPTH OF COMPLETED WELL (FT)
No Well | BORE HOLE DEPTH (FT)
160' | DEPTH WATER FIRST ENCOUNTERED (FT)
No Water | | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT)
N/A | DATE STATIC MEASURED | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Sonic | | | | | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 160 | 7.232 | N/A | | | | |
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|---------------------|------------------|-----|--------------------------|---|---------------------|---------------------|
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL
<i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i> | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
| | FROM | TO | | | | |
| | 0 | 160 | 7.232 | Neat Cement Grout | 47.5903 | Tremie |
| | | | | | | |
| | | | | | | |

| | | | | | |
|----------------------|-----------------|--|--|--|--|
| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Version 09/22/2022) | | | |
| FILE NO. | POD NO. | TRN NO. | | | |
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 | | | |

OBS HF Sinclair 113-23-1126

WDW-3-MW-1



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: WDW-3-MW-1 WDW-3-BH-1

Well owner: HF Sinclair Navajo Refining LLC Phone No.: 575-746-5487

Mailing address: 501 East Main Street

City: Artesia State: New Mexico Zip code: 88210

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling L.P
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: _____
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): _____
- 4) Date well plugging began: 10/7/2023 Date well plugging concluded: 10/7/2023
- 5) GPS Well Location: Latitude: 32° deg, 46 min, 16.1147 sec
Longitude: 104° deg, 14 min, 00.4332 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 160' ft below ground level (bgl),
by the following manner: Tremie from bottom up with Neat Cement
- 7) Static water level measured at initiation of plugging: 0 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 6/5/2023
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Drill to 160' and the hole was dry. Plugged the bore back from 160' to 0 using Neat Cement and Tremied from the bottom up.

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

| <u>Depth</u>
(ft bgl) | <u>Plugging Material Used</u>
(include any additives used) | <u>Volume of Material Placed</u>
(gallons) | <u>Theoretical Volume of Borehole/ Casing</u>
(gallons) | <u>Placement Method</u>
(tremie pipe, other) | <u>Comments</u>
("casing perforated first", "open annular space also plugged", etc.) |
|--------------------------|---|---|--|---|---|
| | Neat Cement | 356 gallons | 341 gallons | Tremie | Dry bore hole grouted from bottom up with Neat cement using Tremie pipe |

| MULTIPLY | BY | AND OBTAIN |
|---------------|--------|------------|
| cubic feet x | 7.4805 | = gallons |
| cubic yards x | 201.97 | = gallons |

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Shawn Cain
Signature of Well Driller

10-31-23
Date

OBS HF Sinclair 113-23-1126 WDW-3 MW-1



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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| | | | | | | |
|--|---|----------------------------|-----------------|----------------------|--|-----------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.)
POD 1 (WDW-3MW-1) | | WELL TAG ID NO. | | OSE FILE NO(S).
RA-13331 | |
| | WELL OWNER NAME(S)
HF Sinclair Navajo Refining LLC | | | | PHONE (OPTIONAL)
575-746-5487 | |
| | WELL OWNER MAILING ADDRESS
501 East Main Street | | | | CITY
Artesia | STATE ZIP
NM 88210 |
| | WELL LOCATION (FROM GPS) | DEGREES
LATITUDE
32° | MINUTES
46 | SECONDS
16.1147 N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | |
| | | LONGITUDE
104° | 14 | 00.4332 W | * DATUM REQUIRED: WGS 84 | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE
NE1/4,SE1/4, SW1/4, Sec 1, T18S, R27E | | | | | | |

| | | | | | | | | |
|----------------------------------|---|--|---|--|---|---|--------------------------------|--------------------|
| 2. DRILLING & CASING INFORMATION | LICENSE NO.
1664 | NAME OF LICENSED DRILLER
Shawn Cain | | | NAME OF WELL DRILLING COMPANY
Cascade Drilling L.P | | | |
| | DRILLING STARTED
10/4/2023 | DRILLING ENDED
10/7/2023 | DEPTH OF COMPLETED WELL (FT)
No Well | BORE HOLE DEPTH (FT)
160' | DEPTH WATER FIRST ENCOUNTERED (FT)
No Water | | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT)
N/A | DATE STATIC MEASURED | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Sonic | | | | | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 160 | 7.232 | N/A | | | | |
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|---------------------|------------------|-----|--------------------------|---|---------------------|---------------------|
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL
<i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i> | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
| | FROM | TO | | | | |
| | 0 | 160 | 7.232 | Neat Cement Grout | 47.5903 | Tremie |
| | | | | | | |
| | | | | | | |

FOR OSE INTERNAL USE

| | | | |
|----------|-----------------|--|---------|
| FILE NO. | POD NO. | WR-20 WELL RECORD & LOG (Version 09/22/2022) | TRN NO. |
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 | |

OBS HF Sinclair 113-23-1124

WDW-4-MW-1



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: WDW-4-MW-1
 Well owner: HF Sinclair Navajo Refining LLC Phone No.: 575-746-5487
 Mailing address: 501 East Main Street
 City: Artesia State: New Mexico Zip code: 88210

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Cascade Drilling L.P
- 2) New Mexico Well Driller License No.: 1664 Expiration Date: _____
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): _____
- 4) Date well plugging began: 10/20/2023 Date well plugging concluded: 10/20/2023
- 5) GPS Well Location: Latitude: 32° deg, 48 min, 57.1165 sec
Longitude: 104° deg, 14 min, 00.4199 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 150' ft below ground level (bgl),
by the following manner: Tremie from bottom up with Neat Cement
- 7) Static water level measured at initiation of plugging: 0 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 6/5/2023
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Drill to ~~160'~~ and the hole was dry. Plugged the bore back from 150' to 0 using Neat Cement and Tremied from the bottom up.

150'

WDW-4-BH-1

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

| Depth
(ft bgl) | Plugging
Material Used
(include any additives used) | Volume of
Material Placed
(gallons) | Theoretical Volume
of Borehole/ Casing
(gallons) | Placement
Method
(tremie pipe,
other) | Comments
("casing perforated first", "open
annular space also plugged", etc.) |
|--|---|---|--|--|---|
|  | Neat Cement | 328 gallons | 319 gallons | Tremie | Dry bore hole grouted from bottom up with Neat cement using Tremie pipe |

| MULTIPLY | BY | AND OBTAIN |
|---------------|--------|------------|
| cubic feet x | 7.4805 | = gallons |
| cubic yards x | 201.97 | = gallons |

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



Signature of Well Driller

10-31-23

Date

DBS HF Sinclair

113-23-1126

WOW-4-MV.1



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|--|---|--|---|--|---|---|--------------------------------|--------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.)
POD 1 (WDW-4MW-1) | | WELL TAG ID NO. | | OSE FILE NO(S)
RA-13331 | | | |
| | WELL OWNER NAME(S)
HF Sinclair Navajo Refining LLC | | | | PHONE (OPTIONAL)
575-746-5487 | | | |
| | WELL OWNER MAILING ADDRESS
501 East Main Street | | | | CITY
Artesia | STATE
NM | ZIP
88210 | |
| | WELL LOCATION (FROM GPS) | DEGREES
LATITUDE
32° | MINUTES
48 | SECONDS
57.1165 N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | | |
| | | LONGITUDE
104° | 14 | 00.4199 W | * DATUM REQUIRED: WGS 84 | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE
NE1/4, SE1/4, SW1/4, Sec 23, T17S, R27E | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO.
1664 | NAME OF LICENSED DRILLER
Shawn Cain | | | NAME OF WELL DRILLING COMPANY
Cascade Drilling L.P | | | |
| | DRILLING STARTED
10/11/2023 | DRILLING ENDED
10/20/2023 | DEPTH OF COMPLETED WELL (FT)
No Well | BORE HOLE DEPTH (FT)
150' | DEPTH WATER FIRST ENCOUNTERED (FT)
No Water | | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT)
N/A | DATE STATIC MEASURED | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Sonic | | | | | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 150 | 7.232 | N/A | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL
<i>* (if using Centralizers for Artesian wells- indicate the spacing below)</i> | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
| | FROM | TO | | | | | | |
| | 0 | 150 | 7.232 | Neat Cement Grout | 46.4903 | Tremie | | |
| | | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

| | | |
|----------|-----------------|-------------|
| FILE NO. | POD NO. | TRN NO. |
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 |

Appendix I

Waste Manifest and TCLP Analytical Results



NEW MEXICO NON-HAZARDOUS OR HAZARDOUS WASTE / (FORM 604) (1/91)

03233

DISPOSAL FACILITY COPY

Generator No. 201118
 Generator Name HF Sinclair Navajo Refining, LLC
 Address 501 E. Main St.
 City, State, Zip Artesia, New Mexico 88210

GENERATOR

Environmental Contact Name Jason Roberts
 Environmental Contact Phone No. 505-700-4104
 Spill Phone No. _____
 OPR Foreman Phone No. 505-860-6090

Transporter's Name S Brothers Waste Services, Inc.
 Address 512 W. Texas Ave.
 City, State, Zip Artesia, New Mexico 88210
 Phone No. 505-740-0011

TRANSPORTER

Driver's Name Arthur Bustantes
 Truck No. 25
 Bin No. 82
 Unit # (unit waste will generated in) _____

I hereby certify that the above named materials was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

05-26-25 Arthur Bustantes
 DEPARTURE DATE DRIVER'S SIGNATURE

05-26-25 Arthur Bustantes
 DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP
 IN: _____
 OUT: _____

DISPOSAL FACILITY

RECEIVING AREA
 Name/Title Leonor

Site Name / Permit No. Commercial Landfill (NM-01-0018)
 Address P.O. Box 1858 Artesia, NM 88203
 NORM Sampling Taken? (Circle One) YES NO
 Pass the Point Filter Test? (Circle One) YES NO

Phone No. 505-347-6434
 If YES, wet reading - 50 micron mercury? (Circle One) YES NO

Non-Exempt E&P Waste Service Identification and Amount

All commercial E&P wastes must be analyzed and be below the treatment limits for toxicity (TCLP, ignit., corrosives, and metals).

- LIST
- K1 SOLIDS
 - K2 LIQUIDS
 - K3 SLURRIES
 - K4 SLURRIES
 - K5 SLURRIES
 - K6 SLURRIES
 - K7 SLURRIES
 - K8 SLURRIES
 - K9 SLURRIES
 - K10 SLURRIES
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 - K99 SLURRIES
 - K100 SLURRIES

Waste Form Code w/o 4011490 Unit 80 WAW-1 Hydro vac soil

QUANTITY _____ B - Barrels _____ G - Gallons 17 T - Tons _____ C - Cans

TRUCK WEIGHT IN 37780 TRUCK WEIGHT OUT 71460
 (Truck Out - Truck In - Bin Tare Weight = Net Waste Weight)

G-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1980 regulatory determination, the above described waste is (Check the appropriate classification)

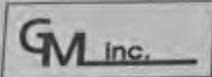
- RCRA EXEMPT: Oil field waste generated from oil and gas exploration and production operations and not mixed with non-exempt waste. (Classy Maney, excepts carbonaceous oil and gas muds only from.)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous but does not exceed the maximum standards for waste hazardous by characteristics established in RCRA regulations. 40 CFR 261.21-261.24. (Oil field hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following instructions demonstrating the waste as non-hazardous is attached. (Check the appropriate item as provided.)
 - RCRA Non-Hazardous
 - RCRA Hazardous Waste Analysis
 - Other (Provide Detailed Report)
- EMERGENCY NON-OIL-FIELD: Emergency non-hazardous, non-oil-field waste that has been ordered by the Department of Public Safety. (The waste characterization of non-hazardous waste determination and a description of the waste must accompany this form.)

PRINT: AUTHORIZED AGENT'S SIGNATURE _____ DATE _____ SIGNATURE _____

NAME (PRINT) _____ GMI _____ TITLE _____ SIGNATURE _____

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

DISPOSAL FACILITY COPY



03557

GENERATOR

Operator No. 331119
Operators Name HF Sinclair Navajo Refining, LLC
Address 501 E. Main St.
City, State, Zip Artesia, New Mexico 88210

Environmental Contact Name Jason Roberts
Environmental Contact Phone No. 575-703-6164
Board Phone No.
Shift Foreman Phone No. 575-365-8360

TRANSPORTER

Transporter's Name S Brothers Waste Services, Inc.
Address 512 W. Texas Ave.
City, State, Zip Artesia, New Mexico 88210
Phone No. 575-746-0011

Driver's Name Rafael Valverde
Truck No. # 16
Bin No. # 9912
Unit # (Unit waste was generated in) # 80

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

5-1-25 SHIPMENT DATE

RV DRIVER'S SIGNATURE

5-1-25 DELIVERY DATE

RV DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: OUT:

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Landfill

Site Name / Permit No. Commercial Landfarm (NM-01-0019)
Address P.O. Box 1658 Roswell, NM 88202
NORM Readings Taken? (Circle One) YES NO
Pass the Paint Filter Test? (Circle One) YES NO

Phone No. 575-347-0434
If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

- LIST:
[] DAF SOLIDS [] INJECTION WELL FILTERS [] NON-EXEMPT CONTAMINATED SOIL
[] KF SOLIDS [] TRASH AND DEBRIS [] NON-EXEMPT OTHER

Non-Exempt Other: 00 # 40111490 W-D-W # 1 Hydro use soil

QUANTITY: B - Barrels G - Gallons 17 Y - Yards E - Each

TRUCK WEIGH IN: TRUCK WEIGH OUT:
(Truck Out - Truck In - Bin Tare Weight = Net Waste Weight)

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- [] RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)
[] RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)
[] MSDS Information [] RCRA Hazardous Waste Analysis [] Other (Provide Description Below)

[] EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

NAME (PRINT)

DATE

GMI

TITLE

SIGNATURE

SUPERIOR PRINTING SERVICE, INC.

DISPOSAL FACILITY COPY

GM inc.

06652

GENERATOR

Operator No. 331119
Operators Name HF Sinclair Navajo Refining, LLC
Address 501 E. Main St.
City, State, Zip Artesia, New Mexico 88210

Environmental Contact Name Eric Flores
Environmental Contact Phone No. 575-909-1010
Board Phone No.
Shift Foreman Phone No. 575-365-8360

TRANSPORTER

Transporter's Name S Brothers Waste Services, Inc.
Address 512 W. Texas Ave.
City, State, Zip Artesia, New Mexico 88210
Phone No. 575-746-0011

Driver's Name F. Orquiz
Truck No. 22
Bin No. 332
Unit # (Unit waste was generated in) 80

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8.1.25 SHIPMENT DATE
FAS DRIVER'S SIGNATURE

8.1.25 DELIVERY DATE
FAS DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN:
OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. Landfill

Site Name / Permit No. Commercial Landfarm (NM-01-0019)
Address P.O. Box 1658 Roswell, NM 88202
NORM Readings Taken? (Circle One) YES NO
Pass the Paint Filter Test? (Circle One) YES NO

Phone No. 575-347-0434
If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

- LIST:
[] DAF SOLIDS
[] INJECTION WELL FILTERS
[] NON-EXEMPT CONTAMINATED SOIL
[] KF SOLIDS
[] TRASH AND DEBRIS
[] NON-EXEMPT OTHER

Non-Exempt Other: WDWI NEWBOURNE INJECTION WELL SOIL

QUANTITY: B - Barrels G - Gallons 17 Y - Yards E - Each

TRUCK WEIGH IN: 35,960 N: 15,780 B: 6,760

TRUCK WEIGH OUT: 58,500
(Truck Out - Truck In - Bin Tare Weight = Net Waste Weight)

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- [] RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
[] RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations.
[] MSDS Information
[] RCRA Hazardous Waste Analysis
[] Other (Provide Description Below) GENERATOR KNOWLEDGE

[] EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

NAME (PRINT) DATE TITLE SIGNATURE



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jace Ragland
HF Sinclair Asphalt Navajo Refining LLC
PO BOX 159
Artesia, New Mexico 88211

Generated 4/21/2025 4:58:58 PM

JOB DESCRIPTION

TCLP

JOB NUMBER

885-22690-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

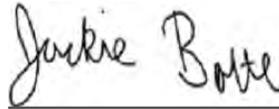


Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
4/21/2025 4:58:58 PM

Authorized for release by
Jackie Bolte, Project Manager
jackie.bolte@et.eurofinsus.com
(505)345-3975

Client: HF Sinclair Asphalt Navajo Refining LLC
Project/Site: TCLP

Laboratory Job ID: 885-22690-1

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Definitions/Glossary

Client: HF Sinclair Asphalt Navajo Refining LLC
Project/Site: TCLP

Job ID: 885-22690-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|---|
| S1+ | Surrogate recovery exceeds control limits, high biased. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: HF Sinclair Asphalt Navajo Refining LLC
Project: TCLP

Job ID: 885-22690-1

Job ID: 885-22690-1

Eurofins Albuquerque

Job Narrative 885-22690-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 4/5/2025 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_QQQ - TCLP: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Mewborne (885-22690-1). These results have been reported and qualified.

Method 8270E_QQQ - TCLP: The continuing calibration verification (CCV) associated with batch 860-228131 recovered above the upper control limit for Nitrobenzene-d5. The associated sample is:(CCVIS 860-228131/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque



Client Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Client Sample ID: Mewborne

Lab Sample ID: 885-22690-1

Date Collected: 04/04/25 08:20

Matrix: Solid

Date Received: 04/05/25 08:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Benzene | ND | | 0.050 | 0.023 | mg/L | | | 04/19/25 19:51 | 50 |
| Carbon tetrachloride | ND | | 0.25 | 0.045 | mg/L | | | 04/19/25 19:51 | 50 |
| Chlorobenzene | ND | | 0.050 | 0.023 | mg/L | | | 04/19/25 19:51 | 50 |
| Chloroform | ND | | 0.050 | 0.023 | mg/L | | | 04/19/25 19:51 | 50 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.019 | mg/L | | | 04/19/25 19:51 | 50 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.037 | mg/L | | | 04/19/25 19:51 | 50 |
| 2-Butanone | ND | | 2.5 | 0.41 | mg/L | | | 04/19/25 19:51 | 50 |
| Tetrachloroethene | ND | | 0.050 | 0.033 | mg/L | | | 04/19/25 19:51 | 50 |
| Trichloroethene | ND | | 0.25 | 0.075 | mg/L | | | 04/19/25 19:51 | 50 |
| Vinyl chloride | ND | | 0.10 | 0.021 | mg/L | | | 04/19/25 19:51 | 50 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 63 - 144 | | 04/19/25 19:51 | 50 |
| 4-Bromofluorobenzene (Surr) | 96 | | 74 - 124 | | 04/19/25 19:51 | 50 |
| Dibromofluoromethane (Surr) | 96 | | 75 - 131 | | 04/19/25 19:51 | 50 |
| Toluene-d8 (Surr) | 98 | | 80 - 120 | | 04/19/25 19:51 | 50 |

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| 1,4-Dichlorobenzene | ND | | 11 | 1.5 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| 2,4,5-Trichlorophenol | ND | | 11 | 2.8 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| 2,4,6-Trichlorophenol | ND | | 11 | 4.6 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| 2,4-Dinitrotoluene | ND | | 11 | 4.0 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| 2-Methylphenol | ND | | 11 | 2.1 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| 3 & 4 Methylphenol | ND | | 11 | 2.7 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| Hexachlorobenzene | ND | | 11 | 1.9 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| Hexachlorobutadiene | ND | | 11 | 2.0 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| Hexachloroethane | ND | | 11 | 2.0 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| Nitrobenzene | ND | | 11 | 1.5 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| Pentachlorophenol | ND | | 11 | 3.9 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| Pyridine | ND | | 56 | 28 | ug/L | | 04/10/25 08:10 | 04/10/25 22:14 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 140 | S1+ | 35 - 130 | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| 2-Fluorophenol (Surr) | 64 | | 19 - 120 | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| 2-Fluorobiphenyl | 84 | | 43 - 130 | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| Nitrobenzene-d5 (Surr) | 160 | S1+ | 37 - 133 | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| Phenol-d5 (Surr) | 50 | | 8 - 124 | 04/10/25 08:10 | 04/10/25 22:14 | 20 |
| p-Terphenyl-d14 (Surr) | 60 | | 47 - 130 | 04/10/25 08:10 | 04/10/25 22:14 | 20 |

Method: SW846 6020B - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0061 | J | 0.020 | 0.0035 | mg/L | | 04/10/25 09:00 | 04/10/25 16:49 | 1 |
| Barium | 0.56 | | 0.020 | 0.0067 | mg/L | | 04/10/25 09:00 | 04/10/25 16:49 | 1 |
| Cadmium | ND | | 0.010 | 0.0012 | mg/L | | 04/10/25 09:00 | 04/10/25 16:49 | 1 |
| Chromium | ND | | 0.020 | 0.0028 | mg/L | | 04/10/25 09:00 | 04/10/25 16:49 | 1 |
| Lead | ND | | 0.010 | 0.0018 | mg/L | | 04/10/25 09:00 | 04/10/25 16:49 | 1 |
| Selenium | 0.0033 | J | 0.010 | 0.0030 | mg/L | | 04/10/25 09:00 | 04/10/25 16:49 | 1 |
| Silver | ND | | 0.010 | 0.0020 | mg/L | | 04/10/25 09:00 | 04/10/25 16:49 | 1 |

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Client Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Client Sample ID: Mewborne

Lab Sample ID: 885-22690-1

Date Collected: 04/04/25 08:20

Matrix: Solid

Date Received: 04/05/25 08:20

Method: SW846 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.00020 | 0.000071 | mg/L | | 04/11/25 05:47 | 04/11/25 11:37 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Flashpoint (SW846 1010B) | >180 | | 1.0 | 1.0 | Degrees F | | | 04/21/25 17:28 | 1 |
| Cyanide, Reactive (SW846 9012) | ND | | 0.025 | 0.013 | mg/Kg | | 04/14/25 11:52 | 04/14/25 20:54 | 1 |
| Sulfide, Reactive (SW846 9034) | ND | | 6.3 | 1.3 | mg/Kg | | 04/14/25 11:49 | 04/15/25 09:52 | 1 |

General Chemistry - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|----|-----|--------|---|----------|----------------|---------|
| pH (SW846 9045C) | 8.1 | HF | | | SU | | | 04/17/25 13:33 | 1 |
| Temperature (SW846 9045C) | 20.5 | HF | | | Deg. C | | | 04/17/25 13:33 | 1 |
| Corrosivity (SW846 9045C) | 8.1 | HF | | | SU | | | 04/17/25 13:33 | 1 |

QC Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-230303/9

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 230303

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|--------|---------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Benzene | ND | | 0.0010 | 0.00046 | mg/L | | | 04/19/25 16:26 | 1 |
| Carbon tetrachloride | ND | | 0.0050 | 0.00090 | mg/L | | | 04/19/25 16:26 | 1 |
| Chlorobenzene | ND | | 0.0010 | 0.00046 | mg/L | | | 04/19/25 16:26 | 1 |
| Chloroform | ND | | 0.0010 | 0.00046 | mg/L | | | 04/19/25 16:26 | 1 |
| 1,2-Dichloroethane | ND | | 0.0010 | 0.00037 | mg/L | | | 04/19/25 16:26 | 1 |
| 1,1-Dichloroethene | ND | | 0.0010 | 0.00074 | mg/L | | | 04/19/25 16:26 | 1 |
| 2-Butanone | ND | | 0.050 | 0.0083 | mg/L | | | 04/19/25 16:26 | 1 |
| Tetrachloroethene | ND | | 0.0010 | 0.00066 | mg/L | | | 04/19/25 16:26 | 1 |
| Trichloroethene | ND | | 0.0050 | 0.0015 | mg/L | | | 04/19/25 16:26 | 1 |
| Vinyl chloride | ND | | 0.0020 | 0.00043 | mg/L | | | 04/19/25 16:26 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 63 - 144 | | 04/19/25 16:26 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 74 - 124 | | 04/19/25 16:26 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 75 - 131 | | 04/19/25 16:26 | 1 |
| Toluene-d8 (Surr) | 95 | | 80 - 120 | | 04/19/25 16:26 | 1 |

Lab Sample ID: LCS 860-230303/3

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 230303

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|--------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Benzene | 0.0500 | 0.0509 | | mg/L | | 102 | 75 - 125 |
| Carbon tetrachloride | 0.0500 | 0.0532 | | mg/L | | 106 | 70 - 125 |
| Chlorobenzene | 0.0500 | 0.0525 | | mg/L | | 105 | 82 - 135 |
| Chloroform | 0.0500 | 0.0495 | | mg/L | | 99 | 70 - 121 |
| 1,2-Dichloroethane | 0.0500 | 0.0466 | | mg/L | | 93 | 72 - 130 |
| 1,1-Dichloroethene | 0.0500 | 0.0560 | | mg/L | | 112 | 50 - 150 |
| 2-Butanone | 0.250 | 0.226 | | mg/L | | 90 | 60 - 140 |
| Tetrachloroethene | 0.0500 | 0.0580 | | mg/L | | 116 | 71 - 125 |
| Trichloroethene | 0.0500 | 0.0544 | | mg/L | | 109 | 75 - 135 |
| Vinyl chloride | 0.0500 | 0.0465 | | mg/L | | 93 | 60 - 140 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 97 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 96 | | 75 - 131 |
| Toluene-d8 (Surr) | 96 | | 80 - 120 |

Lab Sample ID: LCSD 860-230303/4

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 230303

| Analyte | Spike Added | LCSD | LCSD | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------|-------------|--------|-----------|------|---|------|-------------|-----|-----------|
| | | Result | Qualifier | | | | | | |
| Benzene | 0.0500 | 0.0505 | | mg/L | | 101 | 75 - 125 | 1 | 25 |
| Carbon tetrachloride | 0.0500 | 0.0504 | | mg/L | | 101 | 70 - 125 | 5 | 25 |
| Chlorobenzene | 0.0500 | 0.0540 | | mg/L | | 108 | 82 - 135 | 3 | 25 |
| Chloroform | 0.0500 | 0.0468 | | mg/L | | 94 | 70 - 121 | 6 | 25 |

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QC Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-230303/4

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 230303

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,2-Dichloroethane | 0.0500 | 0.0452 | | mg/L | | 90 | 72 - 130 | 3 | 25 |
| 1,1-Dichloroethane | 0.0500 | 0.0520 | | mg/L | | 104 | 50 - 150 | 7 | 25 |
| 2-Butanone | 0.250 | 0.226 | | mg/L | | 90 | 60 - 140 | 0 | 25 |
| Tetrachloroethene | 0.0500 | 0.0582 | | mg/L | | 116 | 71 - 125 | 0 | 25 |
| Trichloroethene | 0.0500 | 0.0550 | | mg/L | | 110 | 75 - 135 | 1 | 25 |
| Vinyl chloride | 0.0500 | 0.0449 | | mg/L | | 90 | 60 - 140 | 3 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 86 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 98 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 92 | | 75 - 131 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 860-228092/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 228128

Prep Batch: 228092

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| 1,4-Dichlorobenzene | ND | | 0.57 | 0.078 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.57 | 0.14 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.57 | 0.23 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.57 | 0.20 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| 2-Methylphenol | ND | | 0.57 | 0.10 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| 3 & 4 Methylphenol | ND | | 0.57 | 0.14 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| Hexachlorobenzene | ND | | 0.57 | 0.097 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| Hexachlorobutadiene | ND | | 0.57 | 0.10 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| Hexachloroethane | ND | | 0.57 | 0.10 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| Nitrobenzene | ND | | 0.57 | 0.074 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| Pentachlorophenol | ND | | 0.57 | 0.20 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| Pyridine | ND | | 2.9 | 1.4 | ug/L | | 04/10/25 08:10 | 04/10/25 13:49 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|-----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 89 | | 35 - 130 | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| 2-Fluorophenol (Surr) | 106 | | 19 - 120 | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| 2-Fluorobiphenyl | 100 | | 43 - 130 | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| Nitrobenzene-d5 (Surr) | 97 | | 37 - 133 | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| Phenol-d5 (Surr) | 96 | | 8 - 124 | 04/10/25 08:10 | 04/10/25 13:49 | 1 |
| p-Terphenyl-d14 (Surr) | 101 | | 47 - 130 | 04/10/25 08:10 | 04/10/25 13:49 | 1 |

Lab Sample ID: LCS 860-228092/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 228128

Prep Batch: 228092

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,4-Dichlorobenzene | 5.71 | 5.99 | | ug/L | | 105 | 28 - 130 |
| 2,4,5-Trichlorophenol | 5.71 | 6.36 | | ug/L | | 111 | 35 - 130 |

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QC Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 860-228092/2-A
 Matrix: Solid
 Analysis Batch: 228128

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 228092

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|-------------|------------|---------------|------|---|------|-------------|
| 2,4,6-Trichlorophenol | 5.71 | 6.27 | | ug/L | | 110 | 52 - 129 |
| 2,4-Dinitrotoluene | 5.71 | 6.13 | | ug/L | | 107 | 48 - 127 |
| 2-Methylphenol | 5.71 | 6.15 | | ug/L | | 108 | 14 - 176 |
| 3 & 4 Methylphenol | 5.71 | 5.84 | | ug/L | | 102 | 22 - 130 |
| Hexachlorobenzene | 5.71 | 6.16 | | ug/L | | 108 | 8 - 142 |
| Hexachlorobutadiene | 5.71 | 6.10 | | ug/L | | 107 | 10 - 130 |
| Hexachloroethane | 5.71 | 6.08 | | ug/L | | 106 | 10 - 130 |
| Nitrobenzene | 5.71 | 5.80 | | ug/L | | 102 | 54 - 130 |
| Pentachlorophenol | 5.71 | 5.85 | | ug/L | | 102 | 38 - 152 |
| Pyridine | 5.71 | ND | | ug/L | | 12 | 1 - 126 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 96 | | 35 - 130 |
| 2-Fluorophenol (Surr) | 93 | | 19 - 120 |
| 2-Fluorobiphenyl | 90 | | 43 - 130 |
| Nitrobenzene-d5 (Surr) | 106 | | 37 - 133 |
| Phenol-d5 (Surr) | 87 | | 8 - 124 |
| p-Terphenyl-d14 (Surr) | 91 | | 47 - 130 |

Lab Sample ID: LCSD 860-228092/3-A
 Matrix: Solid
 Analysis Batch: 228128

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 228092

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,4-Dichlorobenzene | 5.71 | 6.29 | | ug/L | | 110 | 28 - 130 | 5 | 30 |
| 2,4,5-Trichlorophenol | 5.71 | 6.69 | | ug/L | | 117 | 35 - 130 | 5 | 30 |
| 2,4,6-Trichlorophenol | 5.71 | 6.62 | | ug/L | | 116 | 52 - 129 | 5 | 30 |
| 2,4-Dinitrotoluene | 5.71 | 6.79 | | ug/L | | 119 | 48 - 127 | 10 | 30 |
| 2-Methylphenol | 5.71 | 6.75 | | ug/L | | 118 | 14 - 176 | 9 | 30 |
| 3 & 4 Methylphenol | 5.71 | 5.83 | | ug/L | | 102 | 22 - 130 | 0 | 30 |
| Hexachlorobenzene | 5.71 | 6.69 | | ug/L | | 117 | 8 - 142 | 8 | 30 |
| Hexachlorobutadiene | 5.71 | 6.46 | | ug/L | | 113 | 10 - 130 | 6 | 30 |
| Hexachloroethane | 5.71 | 6.21 | | ug/L | | 109 | 10 - 130 | 2 | 30 |
| Nitrobenzene | 5.71 | 6.07 | | ug/L | | 106 | 54 - 130 | 4 | 30 |
| Pentachlorophenol | 5.71 | 6.20 | | ug/L | | 108 | 38 - 152 | 6 | 30 |
| Pyridine | 5.71 | ND | | ug/L | | 12 | 1 - 126 | 5 | 30 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 2,4,6-Tribromophenol (Surr) | 106 | | 35 - 130 |
| 2-Fluorophenol (Surr) | 99 | | 19 - 120 |
| 2-Fluorobiphenyl | 95 | | 43 - 130 |
| Nitrobenzene-d5 (Surr) | 100 | | 37 - 133 |
| Phenol-d5 (Surr) | 91 | | 8 - 124 |
| p-Terphenyl-d14 (Surr) | 97 | | 47 - 130 |

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QC Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LB 860-227833/1-B
 Matrix: Solid
 Analysis Batch: 228128

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 228092

| Analyte | LB | LB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,4-Dichlorobenzene | ND | | 0.57 | 0.078 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.57 | 0.14 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.57 | 0.23 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.57 | 0.20 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| 2-Methylphenol | ND | | 0.57 | 0.10 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| 3 & 4 Methylphenol | ND | | 0.57 | 0.14 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| Hexachlorobenzene | ND | | 0.57 | 0.097 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| Hexachlorobutadiene | ND | | 0.57 | 0.10 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| Hexachloroethane | ND | | 0.57 | 0.10 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| Nitrobenzene | ND | | 0.57 | 0.074 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| Pentachlorophenol | ND | | 0.57 | 0.20 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| Pyridine | ND | | 2.9 | 1.4 | ug/L | | 04/10/25 08:10 | 04/10/25 16:16 | 1 |

| Surrogate | LB | LB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 2,4,6-Tribromophenol (Surr) | 82 | | 35 - 130 | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| 2-Fluorophenol (Surr) | 103 | | 19 - 120 | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| 2-Fluorobiphenyl | 99 | | 43 - 130 | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| Nitrobenzene-d5 (Surr) | 89 | | 37 - 133 | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| Phenol-d5 (Surr) | 90 | | 8 - 124 | 04/10/25 08:10 | 04/10/25 16:16 | 1 |
| p-Terphenyl-d14 (Surr) | 95 | | 47 - 130 | 04/10/25 08:10 | 04/10/25 16:16 | 1 |

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-228135/1-A
 Matrix: Solid
 Analysis Batch: 228324

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 228135

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Arsenic | ND | | 0.0040 | 0.00069 | mg/L | | 04/10/25 09:00 | 04/10/25 16:13 | 1 |
| Barium | ND | | 0.0040 | 0.0013 | mg/L | | 04/10/25 09:00 | 04/10/25 16:13 | 1 |
| Cadmium | ND | | 0.0020 | 0.00024 | mg/L | | 04/10/25 09:00 | 04/10/25 16:13 | 1 |
| Chromium | ND | | 0.0040 | 0.00056 | mg/L | | 04/10/25 09:00 | 04/10/25 16:13 | 1 |
| Lead | ND | | 0.0020 | 0.00037 | mg/L | | 04/10/25 09:00 | 04/10/25 16:13 | 1 |
| Selenium | ND | | 0.0020 | 0.00059 | mg/L | | 04/10/25 09:00 | 04/10/25 16:13 | 1 |
| Silver | ND | | 0.0020 | 0.00039 | mg/L | | 04/10/25 09:00 | 04/10/25 16:13 | 1 |

Lab Sample ID: LCS 860-228135/2-A
 Matrix: Solid
 Analysis Batch: 228324

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 228135

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec Limits |
|----------|-------------|--------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Arsenic | 0.100 | 0.0964 | | mg/L | | 96 | 80 - 120 |
| Barium | 0.100 | 0.0960 | | mg/L | | 96 | 80 - 120 |
| Cadmium | 0.100 | 0.0980 | | mg/L | | 98 | 80 - 120 |
| Chromium | 0.100 | 0.0991 | | mg/L | | 99 | 80 - 120 |
| Lead | 0.100 | 0.0983 | | mg/L | | 98 | 80 - 120 |
| Selenium | 0.100 | 0.0929 | | mg/L | | 93 | 80 - 120 |
| Silver | 0.0500 | 0.0500 | | mg/L | | 100 | 80 - 120 |

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QC Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-228135/3-A
 Matrix: Solid
 Analysis Batch: 228324

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 228135

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|----------|-------------|-------------|----------------|------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | | |
| Arsenic | 0.100 | 0.0974 | | mg/L | | 97 | 80 - 120 | 1 | | 20 |
| Barium | 0.100 | 0.0951 | | mg/L | | 95 | 80 - 120 | 1 | | 20 |
| Cadmium | 0.100 | 0.0987 | | mg/L | | 99 | 80 - 120 | 1 | | 20 |
| Chromium | 0.100 | 0.100 | | mg/L | | 100 | 80 - 120 | 1 | | 20 |
| Lead | 0.100 | 0.0985 | | mg/L | | 99 | 80 - 120 | 0 | | 20 |
| Selenium | 0.100 | 0.0961 | | mg/L | | 96 | 80 - 120 | 3 | | 20 |
| Silver | 0.0500 | 0.0497 | | mg/L | | 99 | 80 - 120 | 1 | | 20 |

Lab Sample ID: LB 860-227829/1-A
 Matrix: Solid
 Analysis Batch: 228324

Client Sample ID: Method Blank
 Prep Type: TCLP

| Analyte | LB LB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|---------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Arsenic | ND | | 0.0040 | 0.00069 | mg/L | | | 04/10/25 16:20 | 1 |
| Barium | ND | | 0.0040 | 0.0013 | mg/L | | | 04/10/25 16:20 | 1 |
| Cadmium | ND | | 0.0020 | 0.00024 | mg/L | | | 04/10/25 16:20 | 1 |
| Chromium | ND | | 0.0040 | 0.00056 | mg/L | | | 04/10/25 16:20 | 1 |
| Lead | ND | | 0.0020 | 0.00037 | mg/L | | | 04/10/25 16:20 | 1 |
| Selenium | ND | | 0.0020 | 0.00059 | mg/L | | | 04/10/25 16:20 | 1 |
| Silver | ND | | 0.0020 | 0.00039 | mg/L | | | 04/10/25 16:20 | 1 |

Lab Sample ID: LB 860-227833/1-A
 Matrix: Solid
 Analysis Batch: 228324

Client Sample ID: Method Blank
 Prep Type: TCLP

| Analyte | LB LB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|--------|---------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Arsenic | ND | | 0.0040 | 0.00069 | mg/L | | | 04/10/25 16:43 | 1 |
| Barium | ND | | 0.0040 | 0.0013 | mg/L | | | 04/10/25 16:43 | 1 |
| Cadmium | ND | | 0.0020 | 0.00024 | mg/L | | | 04/10/25 16:43 | 1 |
| Chromium | ND | | 0.0040 | 0.00056 | mg/L | | | 04/10/25 16:43 | 1 |
| Lead | ND | | 0.0020 | 0.00037 | mg/L | | | 04/10/25 16:43 | 1 |
| Selenium | ND | | 0.0020 | 0.00059 | mg/L | | | 04/10/25 16:43 | 1 |
| Silver | ND | | 0.0020 | 0.00039 | mg/L | | | 04/10/25 16:43 | 1 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-228375/1-A
 Matrix: Solid
 Analysis Batch: 228532

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 228375

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|---------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | ND | | 0.00020 | 0.000071 | mg/L | | 04/11/25 05:46 | 04/11/25 11:15 | 1 |

Lab Sample ID: LCS 860-228375/2-A
 Matrix: Solid
 Analysis Batch: 228532

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 228375

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec | |
|---------|-------------|------------|---------------|------|---|------|----------|-----|
| | | | | | | | Limits | RPD |
| Mercury | 0.00200 | 0.00184 | | mg/L | | 92 | 80 - 120 | |

Eurofins Albuquerque

QC Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 860-228375/3-A
 Matrix: Solid
 Analysis Batch: 228532

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 228375

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Mercury | 0.00200 | 0.00194 | | mg/L | | 97 | 80 - 120 | 5 | 20 |

Lab Sample ID: LB 860-227833/1-F
 Matrix: Solid
 Analysis Batch: 228532

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 228375

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.00020 | 0.000071 | mg/L | | 04/11/25 05:47 | 04/11/25 11:19 | 1 |

Method: 1010B - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 860-230612/1
 Matrix: Solid
 Analysis Batch: 230612

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|-----------|---|------|-------------|
| Flashpoint | 126 | 134 | | Degrees F | | 106 | 90 - 110 |

Lab Sample ID: 885-22690-1 DU
 Matrix: Solid
 Analysis Batch: 230612

Client Sample ID: Mewborne
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------|---------------|------------------|-----------|--------------|-----------|---|-----|-----------|
| Flashpoint | >180 | | >180 | | Degrees F | | NC | 25 |

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 860-228949/1-A
 Matrix: Solid
 Analysis Batch: 229097

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 228949

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|--------------|-------|-------|-------|---|----------------|----------------|---------|
| Cyanide, Reactive | ND | | 0.025 | 0.013 | mg/Kg | | 04/14/25 11:52 | 04/14/25 20:39 | 1 |

Lab Sample ID: LCS 860-228949/2-A
 Matrix: Solid
 Analysis Batch: 229097

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 228949

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------|-------------|------------|---------------|-------|---|------|-------------|
| Cyanide, Reactive | 20.0 | 2.81 | | mg/Kg | | 14 | 5 - 40 |

Lab Sample ID: LCSD 860-228949/3-A
 Matrix: Solid
 Analysis Batch: 229097

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 228949

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Cyanide, Reactive | 20.0 | 2.83 | | mg/Kg | | 14 | 5 - 40 | 1 | 20 |

Eurofins Albuquerque

QC Sample Results

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 860-228948/1-A
 Matrix: Solid
 Analysis Batch: 229205

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 228948

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Sulfide, Reactive | ND | | 6.3 | 1.3 | mg/Kg | | 04/14/25 11:48 | 04/15/25 09:52 | 1 |

Lab Sample ID: LCS 860-228948/2-A
 Matrix: Solid
 Analysis Batch: 229205

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 228948

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------|-------------|------------|---------------|-------|---|------|-------------|
| Sulfide, Reactive | 50.0 | 24.0 | | mg/Kg | | 48 | 30 - 120 |

Lab Sample ID: LCSD 860-228948/3-A
 Matrix: Solid
 Analysis Batch: 229205

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 228948

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Sulfide, Reactive | 50.0 | 24.0 | | mg/Kg | | 48 | 30 - 120 | 0 | 20 |

QC Association Summary

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

GC/MS VOA

Leach Batch: 229987

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 1311 | |

Analysis Batch: 230303

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 8260C | 229987 |
| MB 860-230303/9 | Method Blank | Total/NA | Solid | 8260C | |
| LCS 860-230303/3 | Lab Control Sample | Total/NA | Solid | 8260C | |
| LCSD 860-230303/4 | Lab Control Sample Dup | Total/NA | Solid | 8260C | |

GC/MS Semi VOA

Leach Batch: 227833

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 1311 | |
| LB 860-227833/1-B | Method Blank | TCLP | Solid | 1311 | |

Prep Batch: 228092

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 3511 | 227833 |
| LB 860-227833/1-B | Method Blank | TCLP | Solid | 3511 | 227833 |
| MB 860-228092/1-A | Method Blank | Total/NA | Solid | 3511 | |
| LCS 860-228092/2-A | Lab Control Sample | Total/NA | Solid | 3511 | |
| LCSD 860-228092/3-A | Lab Control Sample Dup | Total/NA | Solid | 3511 | |

Analysis Batch: 228128

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LB 860-227833/1-B | Method Blank | TCLP | Solid | 8270E | 228092 |
| MB 860-228092/1-A | Method Blank | Total/NA | Solid | 8270E | 228092 |
| LCS 860-228092/2-A | Lab Control Sample | Total/NA | Solid | 8270E | 228092 |
| LCSD 860-228092/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270E | 228092 |

Analysis Batch: 228131

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 8270E | 228092 |

Metals

Leach Batch: 227829

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| LB 860-227829/1-A | Method Blank | TCLP | Solid | 1311 | |

Leach Batch: 227833

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 1311 | |
| LB 860-227833/1-A | Method Blank | TCLP | Solid | 1311 | |
| LB 860-227833/1-F | Method Blank | TCLP | Solid | 1311 | |

Prep Batch: 228135

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 3010A | 227833 |
| MB 860-228135/1-A | Method Blank | Total/NA | Solid | 3010A | |
| LCS 860-228135/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |

Eurofins Albuquerque

QC Association Summary

Client: HF Sinclair Asphalt Navajo Refining LLC
Project/Site: TCLP

Job ID: 885-22690-1

Metals (Continued)

Prep Batch: 228135 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCSD 860-228135/3-A | Lab Control Sample Dup | Total/NA | Solid | 3010A | |

Analysis Batch: 228324

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 6020B | 228135 |
| LB 860-227829/1-A | Method Blank | TCLP | Solid | 6020B | 227829 |
| LB 860-227833/1-A | Method Blank | TCLP | Solid | 6020B | 227833 |
| MB 860-228135/1-A | Method Blank | Total/NA | Solid | 6020B | 228135 |
| LCS 860-228135/2-A | Lab Control Sample | Total/NA | Solid | 6020B | 228135 |
| LCSD 860-228135/3-A | Lab Control Sample Dup | Total/NA | Solid | 6020B | 228135 |

Prep Batch: 228375

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 7470A | 227833 |
| LB 860-227833/1-F | Method Blank | TCLP | Solid | 7470A | 227833 |
| MB 860-228375/1-A | Method Blank | Total/NA | Solid | 7470A | |
| LCS 860-228375/2-A | Lab Control Sample | Total/NA | Solid | 7470A | |
| LCSD 860-228375/3-A | Lab Control Sample Dup | Total/NA | Solid | 7470A | |

Analysis Batch: 228532

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | TCLP | Solid | 7470A | 228375 |
| LB 860-227833/1-F | Method Blank | TCLP | Solid | 7470A | 228375 |
| MB 860-228375/1-A | Method Blank | Total/NA | Solid | 7470A | 228375 |
| LCS 860-228375/2-A | Lab Control Sample | Total/NA | Solid | 7470A | 228375 |
| LCSD 860-228375/3-A | Lab Control Sample Dup | Total/NA | Solid | 7470A | 228375 |

General Chemistry

Prep Batch: 228948

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | Total/NA | Solid | 7.3.4 | |
| MB 860-228948/1-A | Method Blank | Total/NA | Solid | 7.3.4 | |
| LCS 860-228948/2-A | Lab Control Sample | Total/NA | Solid | 7.3.4 | |
| LCSD 860-228948/3-A | Lab Control Sample Dup | Total/NA | Solid | 7.3.4 | |

Prep Batch: 228949

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | Total/NA | Solid | 7.3.3 | |
| MB 860-228949/1-A | Method Blank | Total/NA | Solid | 7.3.3 | |
| LCS 860-228949/2-A | Lab Control Sample | Total/NA | Solid | 7.3.3 | |
| LCSD 860-228949/3-A | Lab Control Sample Dup | Total/NA | Solid | 7.3.3 | |

Leach Batch: 229027

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 885-22690-1 | Mewborne | Soluble | Solid | DI Leach | |

Analysis Batch: 229097

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | Total/NA | Solid | 9012 | 228949 |
| MB 860-228949/1-A | Method Blank | Total/NA | Solid | 9012 | 228949 |

Eurofins Albuquerque

QC Association Summary

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

General Chemistry (Continued)

Analysis Batch: 229097 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCS 860-228949/2-A | Lab Control Sample | Total/NA | Solid | 9012 | 228949 |
| LCSD 860-228949/3-A | Lab Control Sample Dup | Total/NA | Solid | 9012 | 228949 |

Analysis Batch: 229205

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | Total/NA | Solid | 9034 | 228948 |
| MB 860-228948/1-A | Method Blank | Total/NA | Solid | 9034 | 228948 |
| LCS 860-228948/2-A | Lab Control Sample | Total/NA | Solid | 9034 | 228948 |
| LCSD 860-228948/3-A | Lab Control Sample Dup | Total/NA | Solid | 9034 | 228948 |

Analysis Batch: 229900

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | Soluble | Solid | 9045C | 229027 |

Analysis Batch: 230612

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-22690-1 | Mewborne | Total/NA | Solid | 1010B | |
| LCS 860-230612/1 | Lab Control Sample | Total/NA | Solid | 1010B | |
| 885-22690-1 DU | Mewborne | Total/NA | Solid | 1010B | |

Lab Chronicle

Client: HF Sinclair Asphalt Navajo Refining LLC
 Project/Site: TCLP

Job ID: 885-22690-1

Client Sample ID: Mewborne

Lab Sample ID: 885-22690-1

Date Collected: 04/04/25 08:20

Matrix: Solid

Date Received: 04/05/25 08:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|--|
| TCLP | Leach | 1311 | | | 229987 | JCM | EET HOU | 04/17/25 17:00 - 04/18/25 09:00 ¹ |
| TCLP | Analysis | 8260C | | 50 | 230303 | KLV | EET HOU | 04/19/25 19:51 |
| TCLP | Leach | 1311 | | | 227833 | EMC | EET HOU | 04/09/25 12:00 - 04/10/25 04:00 ¹ |
| TCLP | Prep | 3511 | | | 228092 | DR | EET HOU | 04/10/25 08:10 |
| TCLP | Analysis | 8270E | | 20 | 228131 | T1S | EET HOU | 04/10/25 22:14 |
| TCLP | Leach | 1311 | | | 227833 | EMC | EET HOU | 04/09/25 12:00 - 04/10/25 04:00 ¹ |
| TCLP | Prep | 3010A | | | 228135 | MD | EET HOU | 04/10/25 09:00 |
| TCLP | Analysis | 6020B | | 1 | 228324 | SHZ | EET HOU | 04/10/25 16:49 |
| TCLP | Leach | 1311 | | | 227833 | EMC | EET HOU | 04/09/25 12:00 - 04/10/25 04:00 ¹ |
| TCLP | Prep | 7470A | | | 228375 | AGR | EET HOU | 04/11/25 05:47 |
| TCLP | Analysis | 7470A | | 1 | 228532 | JDM | EET HOU | 04/11/25 11:37 |
| Total/NA | Analysis | 1010B | | 1 | 230612 | CT | EET HOU | 04/21/25 17:28 |
| Total/NA | Prep | 7.3.3 | | | 228949 | MK | EET HOU | 04/14/25 11:52 |
| Total/NA | Analysis | 9012 | | 1 | 229097 | ALL | EET HOU | 04/14/25 20:54 |
| Total/NA | Prep | 7.3.4 | | | 228948 | MK | EET HOU | 04/14/25 11:49 |
| Total/NA | Analysis | 9034 | | 1 | 229205 | SCI | EET HOU | 04/15/25 09:52 |
| Soluble | Leach | DI Leach | | | 229027 | JC | EET HOU | 04/14/25 16:01 |
| Soluble | Analysis | 9045C | | 1 | 229900 | CT | EET HOU | 04/17/25 13:33 |

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: HF Sinclair Asphalt Navajo Refining LLC
Project/Site: TCLP

Job ID: 885-22690-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------------|---------------------|-----------------------|-----------------|
| Arkansas DEQ | State | 88-00759 | 08-04-25 |
| Florida | NELAP | E871002 | 06-30-25 |
| Louisiana (All) | NELAP | 03054 | 12-20-25 |
| Oklahoma | NELAP | 1306 | 08-31-25 |
| Texas | NELAP | T104704215 | 07-01-26 |
| Texas | TCEQ Water Supply | T104704215 | 12-28-25 |
| USDA | US Federal Programs | 525-23-79-79507 | 03-20-26 |

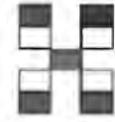
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Chain-of-Custody Record

| | |
|--|---|
| Client: HF Sinclair Navajo Refining LLC | Turn-Around Time:
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush |
| Mailing Address: P.O. Box 159
Artesia, NM, 88211 | Project Name:
TCLP |
| Phone #: 802-557-8904 | Project #:
PO# 4512501704 |
| email or Fax#: Jace.Ragland@hfsinclair.com | Project Manager:
Jace Ragland, Eric Flores, Nat Paengongsavanh |
| QA/QC Package:
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) | Sampler: Eric Flores, Jace Ragland |
| Accreditation: <input type="checkbox"/> Az Compliance
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____ | On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> EDD (Type) _____ | # of Coolers: 1 <i>MQSD</i> |

Cooler Temp (including CF): *3.1 + 0.2 = 3.3°C*

| Container Type and # | Preservative Type | HEAL No. |
|----------------------|-------------------|----------|
| 2 x glass | N/A | |



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107



885-22690 COC

| Analysis Request | | | | | | | | | | | |
|----------------------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|--|------------|-----------------|---------------------------------|-------------------------------------|-------------------------------------|
| BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) | Full TCLP (No Herb. Pest.) | RCI |
| | | | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|------|--------|-------------|----------------------|-------------------|----------|
| 4/4/2025 | 0820 | Solid | Mewborne | 2 x glass | N/A | |

| | | | | | | | |
|--------------|------------|-------------------------------------|---------------------------------|------------------|--------------|------------|----------|
| Date: 4/4/25 | Time: 0945 | Relinquished by: <i>[Signature]</i> | Received by: <i>[Signature]</i> | Via: | Date: 4/4/25 | Time: 0945 | Remarks: |
| Date: 4/25 | Time: 1900 | Relinquished by: <i>[Signature]</i> | Received by: <i>[Signature]</i> | Via: SCM COURIER | Date: 4/5/25 | Time: 0830 | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

Login Sample Receipt Checklist

Client: HF Sinclair Asphalt Navajo Refining LLC

Job Number: 885-22690-1

Login Number: 22690

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

- 1
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Login Sample Receipt Checklist

Client: HF Sinclair Asphalt Navajo Refining LLC

Job Number: 885-22690-1

Login Number: 22690

List Number: 2

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 04/08/25 12:15 PM

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

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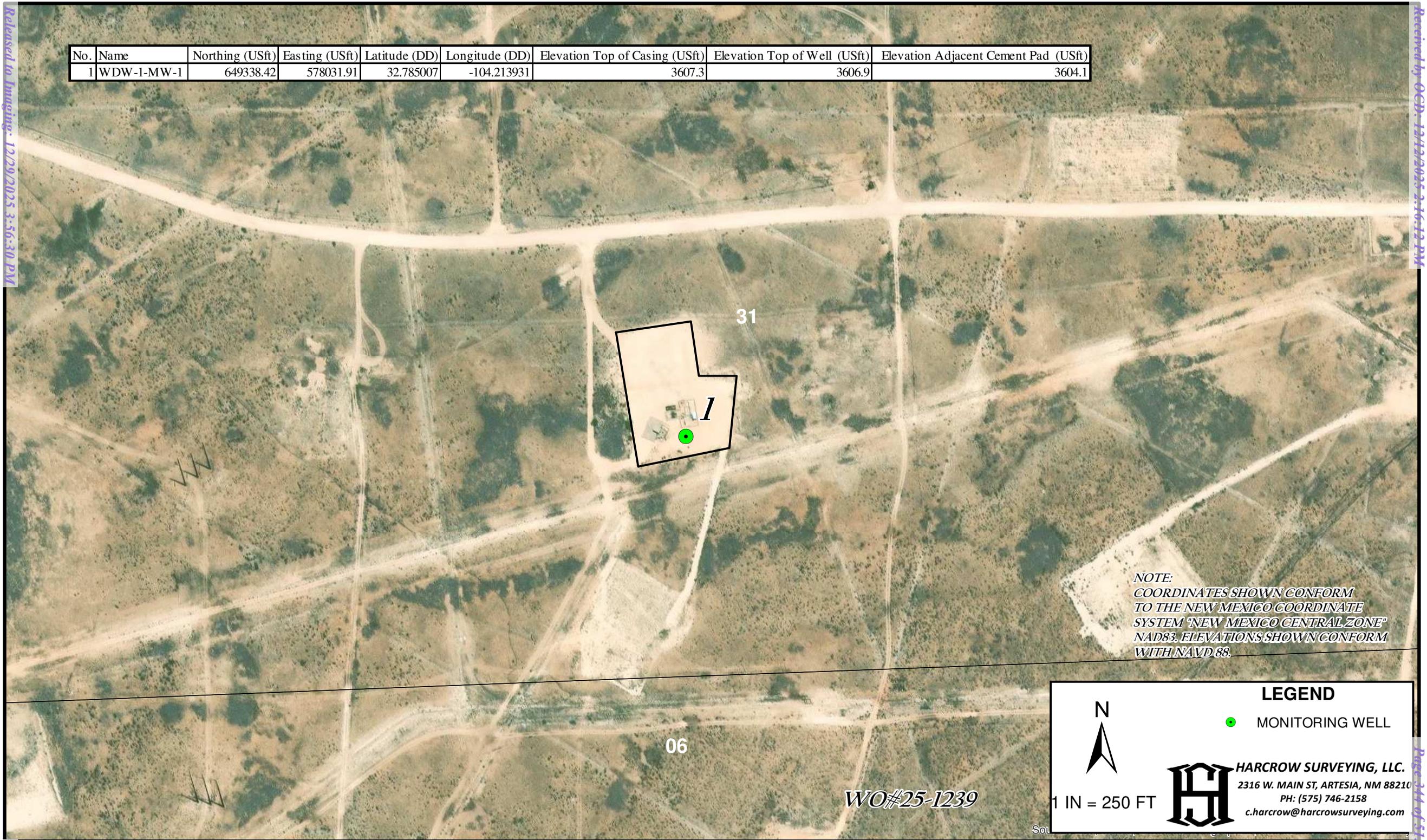
Appendix J

Well Surveys

| No. | Name | Northing (USft) | Easting (USft) | Latitude (DD) | Longitude (DD) | Elevation Top of Casing (USft) | Elevation Top of Well (USft) | Elevation Adjacent Cement Pad (USft) |
|-----|------------|-----------------|----------------|---------------|----------------|--------------------------------|------------------------------|--------------------------------------|
| 1 | WDW-1-MW-1 | 649338.42 | 578031.91 | 32.785007 | -104.213931 | 3607.3 | 3606.9 | 3604.1 |

Released to Imaging: 12/29/2025 3:56:30 PM

Received by OCD: 12/12/2025 2:16:12 PM



*NOTE:
COORDINATES SHOWN CONFORM
TO THE NEW MEXICO COORDINATE
SYSTEM 'NEW MEXICO CENTRAL ZONE'
NAD83. ELEVATIONS SHOWN CONFORM
WITH NAVD 88.*



N

LEGEND

● MONITORING WELL

1 IN = 250 FT



HARCROW SURVEYING, LLC.
2316 W. MAIN ST, ARTESIA, NM 88210
PH: (575) 746-2158
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Page 14 of 15

HARCROW SURVEYING LLC.

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September 26, 2024

HF Sinclair.

Attn: Mike Holder.

RE: WDW well coordinates.

Well Coordinates

Dear Mike Holder,

Below is a table of the coordinates for the four WDW wells in Section 6, 31, Township 18,17 South, Range 28 East. This data is provided in State Plane New Mexico East 3001 NAD83 coordinates with NAVD88 elevations.

| WDW #1 | |
|-----------------------------|---------------------|
| NAD 83
COORDINATES | N: 649416.54 (N) |
| | E: 578025.93 (E) |
| | EL: 3603.28' |
| LAT AND LONG
COORDINATES | LAT: 32.785222° N |
| | LONG: 104.213950° W |
| WDW #2 | |
| NAD 83
COORDINATES | N: 641580.81 (N) |
| | E: 570492.05 (E) |
| | EL: 3533.03' |
| LAT AND LONG
COORDINATES | LAT: 32.763705° N |
| | LONG: 104.238488° W |
| WDW #3 | |
| NAD 83
COORDINATES | N: 644329.77 (N) |
| | E: 572093.60 (E) |
| | EL: 3531.43' |
| LAT AND LONG
COORDINATES | LAT: 32.771257° N |
| | LONG: 104.233270° W |
| WDW #4 | |
| NAD 83
COORDINATES | N: 660607.71 (N) |
| | E: 566954.51 (E) |
| | EL: 3488.39' |
| LAT AND LONG
COORDINATES | LAT: 32.816011° N |
| | LONG: 104.249948° W |

Chad Harrow

Chad Harrow, P.L.S. No. 17777



9/26/24

Date

Appendix K
WDW-1-MW-1
Analytical Results



Environment Testing

- 1
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ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth Bastien
 Daniel B. Stephens & Associates Inc.
 6501 Americas Pkwy NE
 Suite 200
 Albuquerque, New Mexico 87110

Generated 7/22/2025 2:44:41 PM Revision 1

JOB DESCRIPTION

HFSNR

JOB NUMBER

885-26493-1

Eurofins Albuquerque
 4901 Hawkins NE
 Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Jackie Bolte, Project Manager
jackie.bolte@et.eurofinsus.com
(505)345-3975

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7/22/2025 2:44:41 PM
Revision 1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Laboratory Job ID: 885-26493-1



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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *- | LCS and/or LCSD is outside acceptance limits, low biased. |
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| *1 | LCS/LCSD RPD exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

LCMS

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| E | Result exceeded calibration range. |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Rad

| Qualifier | Qualifier Description |
|-----------|---|
| U | Result is less than the sample detection limit. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |

Eurofins Albuquerque

Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Glossary (Continued)

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

| | |
|------|--|
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

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Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project: HFSNR

Job ID: 885-26493-1

Job ID: 885-26493-1

Eurofins Albuquerque

**Job Narrative
885-26493-1**

REVISION

The report being provided is a revision of the original report sent on 7/10/2025. The report (revision 1) is being revised due to Adding extra 8260/8270 analytes..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/11/2025 8:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3°C and 1.0°C.

GC/MS VOA

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-588153. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following sample was collected in improper unpreserved vials for analysis of volatile organic compounds (VOCs). The pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: WDW-1-MW-1 20250610 (885-26493-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-713031 and analytical batch 400-713401 recovered outside control limits for the following analytes: N-Nitrosodi-n-butylamine.

Method 8270E: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-713031 and analytical batch 400-713401 recovered outside control limits for the following analytes: N-Nitrosodi-n-butylamine and Sulfolane. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported.

Method 8270E_QQQ: The method blank for preparation batch 885-28181 and analytical batch 885-28246 contained Butyl benzyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270E_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-28181 and analytical batch 885-28246 recovered outside control limits for the following analytes: Aniline. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E_QQQ: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-28181 and analytical batch 885-28246 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270E_QQQ: The continuing calibration verification (CCV) associated with batch 885-28246 recovered above the upper

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Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project: HFSNR

Job ID: 885-26493-1

Job ID: 885-26493-1 (Continued)

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control limit for Benzoic acid and Bis(2-ethylhexyl) phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is: WDW-1-MW-1 20250610 (885-26493-1).

Method 8270E_QQQ: The laboratory control sample (LCS) for preparation batch 885-28181 and analytical batch 885-28246 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene, 1-Methylnaphthalene, 2-Chloronaphthalene, 2-Methylnaphthalene, 4-Bromophenyl phenyl ether, 4-Chlorophenyl phenyl ether, Acenaphthene, Acenaphthylene, Dibenzofuran, Fluorene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane and Naphthalene.

Method 8270E_QQQ: The laboratory control sample (LCS) for preparation batch 885-28181 and analytical batch 885-28246 recovered outside control limits for the following analytes: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Fluorene and Naphthalene. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Reporting original confirmed results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8011: The laboratory control sample (LCS) for preparation batch 885-28244 and analytical batch 885-28260 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

Method 8151A: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-583827.
8151A_AP

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 8082: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-584606 and analytical batch 570-585270 recovered outside control limits for the following analytes: PCB-1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-584606 and analytical batch 570-585270 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082: Surrogate recovery for the following sample was outside control limits: WDW-1-MW-1 20250610 (885-26493-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 8081B: Surrogate recovery for the following sample was outside the upper control limit: WDW-1-MW-1 20250610 (885-26493-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-584606 and analytical batch 570-588912 recovered outside control limits for the following analytes: 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, beta-BHC, delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide and Methoxychlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-584606 and analytical batch 570-588912 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8081B: Surrogate recovery for the following samples were outside control limits: (885-26493-Y-1-A MS) and (885-26493-

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Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project: HFSNR

Job ID: 885-26493-1

Job ID: 885-26493-1 (Continued)

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Y-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-584606 and analytical batch 570-595047 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-584606 and analytical batch 570-595047 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Explosives

Method 8330: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-584032. Method: 8330

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_OF_28D_PREC: The following sample was diluted due to the nature of the sample matrix: WDW-1-MW-1 20250610 (885-26493-1). Elevated reporting limits (RLs) are provided.

Method 300_OF_48H_PREC: The following sample was diluted due to the nature of the sample matrix: WDW-1-MW-1 20250610 (885-26493-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

LCMS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 200.7 - Dissolved: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 885-28344 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540C_SingleDry: The analysis volume selected for the following samples produced a base result greater than 200mg before calculation of the final result: WDW-1-MW-1 20250610 (885-26493-1), (885-26647-L-1) and (885-26647-L-1 DU). Reanalysis could not be performed due to, holding time exceedance. Visual inspection by analyst shows no signs of trapped moisture, report as is. The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------|-----------|------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.41 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,3-Dichloropropene, Total | ND | | 1.0 | 0.31 | ug/L | | | 06/24/25 02:36 | 1 |
| Acrolein | ND | | 20 | 11 | ug/L | | | 06/24/25 02:36 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Acrylonitrile | ND | | 10 | 2.7 | ug/L | | | 06/24/25 02:36 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.26 | ug/L | | | 06/24/25 02:36 | 1 |
| 1,2,3-Trichloropropane | ND | | 2.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.75 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 1-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 06/20/25 21:22 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | 0.25 | ug/L | | | 06/20/25 21:22 | 1 |
| 2-Butanone | ND | | 10 | 2.0 | ug/L | | | 06/20/25 21:22 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 2-Hexanone | ND | | 10 | 2.0 | ug/L | | | 06/20/25 21:22 | 1 |
| 2-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 06/20/25 21:22 | 1 |
| 4-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 1.0 | ug/L | | | 06/20/25 21:22 | 1 |
| Acetone | ND | | 10 | 2.5 | ug/L | | | 06/20/25 21:22 | 1 |
| Benzene | 0.31 J | | 1.0 | 0.15 | ug/L | | | 06/20/25 21:22 | 1 |
| Bromobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:22 | 1 |
| Bromomethane | ND | | 3.0 | 2.0 | ug/L | | | 06/20/25 21:22 | 1 |
| Carbon disulfide | ND | | 10 | 0.40 | ug/L | | | 06/20/25 21:22 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.50 | ug/L | | | 06/20/25 21:22 | 1 |
| Chloroethane | ND | | 2.0 | 0.40 | ug/L | | | 06/20/25 21:22 | 1 |
| Chloroform | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:22 | 1 |
| Chloromethane | ND | | 3.0 | 1.0 | ug/L | | | 06/20/25 21:22 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:22 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Dibromomethane | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:22 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|-----------|-----------|------|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane | ND | | 1.0 | 0.50 | ug/L | | | 06/20/25 21:22 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:22 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Methyl-tert-butyl Ether (MTBE) | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:22 | 1 |
| Methylene Chloride | ND | | 2.5 | 1.0 | ug/L | | | 06/20/25 21:22 | 1 |
| n-Butylbenzene | ND | | 3.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Naphthalene | ND | | 2.0 | 0.50 | ug/L | | | 06/20/25 21:22 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Styrene | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:22 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:22 | 1 |
| Tetrachloroethene (PCE) | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Toluene | 48 | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Trichloroethene (TCE) | ND | | 1.0 | 0.30 | ug/L | | | 06/20/25 21:22 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.30 | ug/L | | | 06/20/25 21:22 | 1 |
| Xylenes, Total | ND | | 1.5 | 0.20 | ug/L | | | 06/20/25 21:22 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.31 | ug/L | | | 06/24/25 02:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 80 - 120 | | 06/24/25 02:36 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 80 - 120 | | 06/24/25 02:36 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 120 | | 06/24/25 02:36 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 120 | | 06/24/25 02:36 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 80 - 120 | | 06/24/25 02:36 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 80 - 120 | | 06/24/25 02:36 | 1 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | 06/24/25 02:36 | 1 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | 06/24/25 02:36 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 130 | | 06/20/25 21:22 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 06/20/25 21:22 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | 06/20/25 21:22 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 | | 06/20/25 21:22 | 1 |

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Prometon | ND | | 2.7 | 1.2 | ug/L | | 06/16/25 07:00 | 06/23/25 19:05 | 1 |
| Benzidine | ND | *1 | 25 | 10 | ug/L | | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| N-Nitrosodi-n-butylamine | ND | *- *1 | 10 | 8.7 | ug/L | | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| Sulfolane | ND | *- | 10 | 1.4 | ug/L | | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| Pentachlorobenzene | ND | *- *1 | 10 | 2.8 | ug/L | | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | *1 | 10 | 3.3 | ug/L | | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| Atrazine | ND | *- | 10 | 5.0 | ug/L | | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| N-Nitrosodiethylamine | ND | *1 | 10 | 3.4 | ug/L | | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| N-Nitrosopyrrolidine | ND | *- *1 | 10 | 3.4 | ug/L | | 06/17/25 07:00 | 06/19/25 17:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| Phenol-d5 (Surr) | 28 | | 10 - 129 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Phenol-d5 (Surr) | 28 | | 10 - 129 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| Terphenyl-d14 (Surr) | 92 | | 13 - 150 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| Terphenyl-d14 (Surr) | 92 | | 13 - 150 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| Triphenylphosphate | 102 | | 16 - 164 | 06/16/25 07:00 | 06/23/25 19:05 | 1 |
| 2,4,6-Tribromophenol (Surr) | 76 | | 10 - 150 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| 2,4,6-Tribromophenol (Surr) | 76 | | 10 - 150 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| 2-Fluorobiphenyl | 69 | | 21 - 114 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| 2-Fluorobiphenyl | 69 | | 21 - 114 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| 2-Fluorophenol (Surr) | 41 | | 10 - 105 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| 2-Fluorophenol (Surr) | 41 | | 10 - 105 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| Nitrobenzene-d5 (Surr) | 67 | | 16 - 127 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |
| Nitrobenzene-d5 (Surr) | 67 | | 16 - 127 | 06/17/25 07:00 | 06/19/25 17:43 | 1 |

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | *- | 1.0 | 0.078 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.087 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.090 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.0 | 0.082 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 1,4-Dioxane | ND | | 0.50 | 0.23 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 1-Methylnaphthalene | ND | *- | 0.20 | 0.097 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,4,5-Trichlorophenol | ND | | 1.0 | 0.075 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,4,6-Trichlorophenol | ND | | 1.0 | 0.082 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,4-Dichlorophenol | ND | | 1.0 | 0.072 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,4-Dimethylphenol | ND | | 1.0 | 0.099 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,4-Dinitrophenol | ND | | 3.0 | 1.4 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.0 | 0.078 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.0 | 0.51 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2-Chloronaphthalene | ND | *- | 1.0 | 0.062 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2-Chlorophenol | ND | | 1.0 | 0.31 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2-Methylnaphthalene | ND | *- | 0.20 | 0.087 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2-Methylphenol | 0.33 | J | 1.0 | 0.063 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2-Nitroaniline | ND | | 1.0 | 0.38 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2-Nitrophenol | 0.12 | J | 1.0 | 0.079 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 3 & 4 Methylphenol | 0.75 | J | 1.0 | 0.066 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 1.0 | 0.63 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 3-Nitroaniline | ND | | 1.0 | 0.36 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2.0 | 1.2 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 4-Bromophenyl phenyl ether | ND | *- | 1.0 | 0.077 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 4-Chloro-3-methylphenol | ND | | 1.0 | 0.12 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 4-Chloroaniline | ND | | 1.0 | 0.33 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 4-Chlorophenyl phenyl ether | ND | *- | 1.0 | 0.062 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 4-Nitroaniline | ND | | 1.0 | 0.50 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 4-Nitrophenol | ND | | 1.0 | 0.64 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Acenaphthene | ND | *- | 0.20 | 0.085 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Acenaphthylene | ND | *- | 0.20 | 0.064 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Aniline | ND | *+ | 10 | 1.7 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Anthracene | ND | | 0.20 | 0.056 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Azobenzene | ND | | 1.0 | 0.49 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Benzo[a]anthracene | ND | | 0.20 | 0.047 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Benzo[a]pyrene | ND | | 0.070 | 0.057 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Benzo[b]fluoranthene | ND | | 0.20 | 0.066 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.20 | 0.056 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Benzo[k]fluoranthene | ND | | 0.20 | 0.048 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Benzoic acid | ND | | 15 | 7.1 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Benzy alcohol | 0.59 | J | 1.0 | 0.14 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 1.0 | 0.060 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.0 | 0.090 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,2'-oxybis[1-chloropropane] | ND | | 1.0 | 0.092 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 1.0 | 0.95 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Butyl benzy phthalate | ND | | 1.0 | 0.44 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Carbazole | ND | | 1.0 | 0.083 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Chrysene | ND | | 0.20 | 0.062 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Di-n-butyl phthalate | ND | | 1.5 | 1.1 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Di-n-octyl phthalate | ND | | 1.0 | 0.061 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.20 | 0.045 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Dibenzofuran | ND | * | 1.0 | 0.075 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Diethyl phthalate | ND | | 1.5 | 1.5 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Dimethyl phthalate | ND | | 1.0 | 0.099 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Fluoranthene | ND | | 0.20 | 0.068 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Fluorene | ND | * | 0.20 | 0.081 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Hexachlorobenzene | ND | | 5.0 | 0.49 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Hexachlorobutadiene | ND | * | 5.0 | 3.5 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Hexachlorocyclopentadiene | ND | * | 5.0 | 3.5 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Hexachloroethane | ND | * | 5.0 | 3.3 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.20 | 0.058 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Isophorone | ND | | 1.0 | 0.22 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.0 | 0.65 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| N-Nitrosodimethylamine | ND | | 1.0 | 0.29 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.0 | 0.32 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Naphthalene | ND | * | 0.20 | 0.077 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Nitrobenzene | ND | | 1.0 | 0.66 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Pentachlorophenol | ND | | 0.33 | 0.33 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Phenanthrene | ND | | 0.20 | 0.061 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Phenol | 2.2 | | 1.0 | 0.28 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Pyrene | ND | | 0.20 | 0.067 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Pyridine | ND | | 10 | 2.6 | ug/L | | 06/13/25 07:00 | 06/13/25 17:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Phenol-d5 (Surr) | 39 | | 15 - 130 | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2,4,6-Tribromophenol (Surr) | 54 | | 15 - 130 | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| Nitrobenzene-d5 (Surr) | 107 | | 29 - 130 | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2-Fluorobiphenyl | 56 | | 20 - 130 | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| p-Terphenyl-d14 (Surr) | 86 | | 41 - 130 | 06/13/25 07:00 | 06/13/25 17:10 | 1 |
| 2-Fluorophenol (Surr) | 38 | | 15 - 130 | 06/13/25 07:00 | 06/13/25 17:10 | 1 |

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND | | 0.0096 | 0.0077 | ug/L | | 06/13/25 09:38 | 06/13/25 18:43 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane | ND | | 0.019 | 0.0082 | ug/L | | 06/13/25 09:38 | 06/13/25 18:43 | 1 |

Method: SW846 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| 4,4'-DDD | ND | | 0.020 | 0.0044 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| 4,4'-DDE | ND | | 0.020 | 0.0056 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| 4,4'-DDT | ND | | 0.020 | 0.0078 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Aldrin | ND | | 0.020 | 0.0053 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| alpha-BHC | ND | | 0.020 | 0.0019 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| beta-BHC | ND | | 0.020 | 0.013 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Chlordane | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Chlordane (technical) Peak 1 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Chlordane (technical) Peak 2 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Chlordane (technical) Peak 3 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Chlordane (technical) Peak 4 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Chlordane (technical) Peak 5 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| delta-BHC | ND | | 0.020 | 0.0015 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Dieldrin | ND | | 0.020 | 0.0032 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Endosulfan I | ND | | 0.020 | 0.0069 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Endosulfan II | ND | | 0.020 | 0.0037 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Endosulfan sulfate | ND | | 0.020 | 0.0063 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Endrin | ND | | 0.020 | 0.0035 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Endrin aldehyde | ND | | 0.020 | 0.0072 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| gamma-BHC (Lindane) | ND | | 0.020 | 0.0020 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Heptachlor | ND | | 0.020 | 0.0034 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Heptachlor epoxide | ND | | 0.020 | 0.0029 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Methoxychlor | ND | | 0.020 | 0.0091 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Toxaphene | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Toxaphene Peak 1 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Toxaphene Peak 2 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Toxaphene Peak 3 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Toxaphene Peak 4 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Toxaphene Peak 5 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/25/25 00:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl (Surr) | 161 | S1+ | 20 - 120 | 06/16/25 10:14 | 06/25/25 00:28 | 1 |
| Tetrachloro-m-xylene | 104 | | 32 - 127 | 06/16/25 10:14 | 06/25/25 00:28 | 1 |

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 13:50 | 1 |
| PCB-1221 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 13:50 | 1 |
| PCB-1232 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 13:50 | 1 |
| PCB-1242 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 13:50 | 1 |
| PCB-1248 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 13:50 | 1 |
| PCB-1254 | ND | | 0.40 | 0.16 | ug/L | | 06/16/25 10:14 | 06/17/25 13:50 | 1 |
| PCB-1260 | ND | F1 *+ | 0.40 | 0.16 | ug/L | | 06/16/25 10:14 | 06/17/25 13:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene | 86 | | 33 - 137 | 06/16/25 10:14 | 06/17/25 13:50 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl (Surr) | 134 | S1+ | 20 - 120 | 06/16/25 10:14 | 06/17/25 13:50 | 1 |

Method: SW846 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| 2,4,5-T | ND | | 0.51 | 0.22 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| 2,4,5-TP (Silvex) | ND | | 0.51 | 0.14 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| 2,4-D | ND | | 5.1 | 2.0 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| 2,4-DB | ND | | 5.1 | 3.6 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| Dalapon | ND | | 13 | 4.8 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| Dicamba | ND | | 0.51 | 0.29 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| Dichlorprop | ND | | 5.1 | 2.0 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| Dinoseb | ND | | 2.6 | 2.2 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| MCPA | ND | | 510 | 360 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |
| MCPP | ND | | 510 | 310 | ug/L | | 06/13/25 13:20 | 06/16/25 18:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4-Dichlorophenylacetic acid (Surr) | 42 | | 20 - 161 | 06/13/25 13:20 | 06/16/25 18:32 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromide | 1.7 | | 1.0 | 0.50 | mg/L | | | 06/11/25 17:53 | 10 |
| Nitrate | ND | | 1.0 | 0.20 | mg/L | | | 06/11/25 17:53 | 10 |
| Chloride | 1100 | | 50 | 25 | mg/L | | | 06/11/25 18:04 | 100 |
| Nitrite | ND | | 10 | 1.2 | mg/L | | | 06/11/25 18:04 | 100 |
| Fluoride | ND | | 1.0 | 0.46 | mg/L | | | 06/11/25 17:53 | 10 |
| Sulfate | 1800 | | 5.0 | 3.9 | mg/L | | | 06/11/25 17:53 | 10 |

Method: SW846 8330 - Nitroaromatics and Nitramines (HPLC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 1,3,5-Trinitrobenzene | ND | | 1.1 | 0.59 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 1,3-Dinitrobenzene | ND | | 1.1 | 0.48 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 2,4,6-Trinitrotoluene | ND | | 1.1 | 0.84 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.1 | 0.50 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.1 | 0.43 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 2-Amino-4,6-DNT | ND | | 1.1 | 0.44 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 2-Nitrotoluene | ND | | 1.1 | 0.38 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 3-Nitrotoluene | ND | | 1.1 | 0.43 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 4-Amino-2,6-DNT | ND | | 1.1 | 0.42 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| 4-Nitrotoluene | ND | | 1.1 | 0.44 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| HMX | ND | | 1.1 | 0.60 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| Nitrobenzene | ND | | 1.1 | 0.42 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| RDX | ND | | 1.1 | 0.47 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |
| Tetryl | ND | | 1.1 | 0.99 | ug/L | | 06/13/25 21:12 | 06/16/25 18:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dinitrobenzene (Surr) | 106 | | 60 - 150 | 06/13/25 21:12 | 06/16/25 18:57 | 1 |

Method: EPA 331.0 - Perchlorate (LC/MS/MS) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Perchlorate | 0.69 | | 0.20 | 0.040 | ug/L | | | 06/16/25 13:24 | 2 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|----------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA) | 0.0017 | J | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluoroheptanoic acid (PFHpA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorooctanoic acid (PFOA) | 0.00046 | J | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorononanoic acid (PFNA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorodecanoic acid (PFDA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluoroundecanoic acid (PFUnA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorododecanoic acid (PFDoA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorotetradecanoic acid (PFTA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 0.00050 | J | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | ND | | 0.0018 | 0.00045 | ug/L | | 06/20/25 04:29 | 06/21/25 04:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2 PFHxA | 94 | | 70 - 130 | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| 13C2 PFDA | 103 | | 70 - 130 | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| d5-NEtFOSAA | 112 | | 70 - 130 | 06/20/25 04:29 | 06/21/25 04:08 | 1 |
| 13C3 HFPO-DA | 82 | | 70 - 130 | 06/20/25 04:29 | 06/21/25 04:08 | 1 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|--------|--------|------|---|----------|----------------|---------|
| Aluminum | ND | F1 | 0.020 | 0.017 | mg/L | | | 06/14/25 12:26 | 1 |
| Barium | 0.087 | | 0.0030 | 0.0018 | mg/L | | | 06/14/25 12:26 | 1 |
| Beryllium | ND | | 0.0020 | 0.0011 | mg/L | | | 06/14/25 12:26 | 1 |
| Boron | 1.6 | | 0.40 | 0.053 | mg/L | | | 06/14/25 12:33 | 10 |
| Cadmium | ND | | 0.0020 | 0.0017 | mg/L | | | 06/14/25 12:26 | 1 |
| Calcium | 820 | | 10 | 4.2 | mg/L | | | 06/14/25 12:33 | 10 |
| Chromium | ND | | 0.0060 | 0.0030 | mg/L | | | 06/14/25 12:26 | 1 |
| Cobalt | ND | | 0.0060 | 0.0033 | mg/L | | | 06/14/25 12:26 | 1 |
| Iron | ND | | 0.020 | 0.0093 | mg/L | | | 06/14/25 12:26 | 1 |
| Magnesium | 51 | | 10 | 0.64 | mg/L | | | 06/14/25 12:33 | 10 |
| Manganese | ND | | 0.0020 | 0.0012 | mg/L | | | 06/14/25 12:26 | 1 |
| Molybdenum | 0.080 | | 0.0080 | 0.0063 | mg/L | | | 06/14/25 12:26 | 1 |
| Nickel | ND | | 0.010 | 0.0040 | mg/L | | | 06/14/25 12:26 | 1 |
| Potassium | 28 | | 1.0 | 0.45 | mg/L | | | 06/14/25 12:26 | 1 |
| Sodium | 520 | | 10 | 2.5 | mg/L | | | 06/14/25 12:33 | 10 |
| Zinc | ND | | 0.010 | 0.0075 | mg/L | | | 06/14/25 12:26 | 1 |
| Silver | 0.011 | | 0.0050 | 0.0015 | mg/L | | | 06/14/25 12:26 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|---------------|-----------|--------|---------|------|---|----------|----------------|---------|
| Antimony | ND | | 0.0050 | 0.0014 | mg/L | | | 06/24/25 15:34 | 5 |
| Arsenic | ND | | 0.0025 | 0.0020 | mg/L | | | 06/24/25 15:34 | 5 |
| Copper | ND | | 0.0025 | 0.0015 | mg/L | | | 06/24/25 15:34 | 5 |
| Lead | ND | | 0.0025 | 0.0017 | mg/L | | | 06/24/25 15:34 | 5 |
| Selenium | 0.0060 | | 0.0050 | 0.0046 | mg/L | | | 06/24/25 15:34 | 5 |
| Cadmium | ND | | 0.0025 | 0.00088 | mg/L | | | 06/24/25 15:34 | 5 |
| Thallium | ND | | 0.0013 | 0.00018 | mg/L | | | 06/24/25 15:34 | 5 |
| Uranium | ND | | 0.0025 | 0.00097 | mg/L | | | 06/24/25 15:34 | 5 |

Method: EPA 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.00020 | 0.000080 | mg/L | | 06/12/25 08:59 | 06/12/25 12:26 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-----------|--------|--------|----------|---|----------------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 4500 | E | 50 | 25 | mg/L | | | 06/17/25 11:26 | 1 |
| Phenols, Total (EPA 420.4) | 0.012 | | 0.0050 | 0.0020 | mg/L | | | 07/03/25 12:39 | 1 |
| Total Alkalinity as CaCO3 (SM 2320B) | 41 | | 20 | 20 | mg/L | | | 06/12/25 20:11 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | ND | | 20 | 20 | mg/L | | | 06/12/25 20:11 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | 27 | | 2.0 | 2.0 | mg/L | | | 06/12/25 20:11 | 1 |
| Specific Conductance (SM 2510B) | 5800 | | 10 | 10 | umhos/cm | | | 06/12/25 20:11 | 1 |
| Cyanide, Total (SM 4500 CN E) | ND | | 0.025 | 0.0040 | mg/L | | 06/13/25 16:24 | 06/13/25 17:52 | 1 |
| pH (SM 4500 H+ B) | 9.5 | HF | 0.1 | 0.1 | SU | | | 06/12/25 20:11 | 1 |

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|------------------|-----------------------|-----------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.965 | | 0.357 | 0.368 | 1.00 | 0.394 | pCi/L | 06/16/25 08:21 | 07/09/25 16:41 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.3 | | 30 - 110 | | | | | 06/16/25 08:21 | 07/09/25 16:41 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|------------------|-----------------------|-----------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 1.70 | | 0.516 | 0.539 | 1.00 | 0.587 | pCi/L | 06/16/25 08:26 | 07/09/25 12:10 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.3 | | 30 - 110 | | | | | 06/16/25 08:26 | 07/09/25 12:10 | 1 |
| Y Carrier | 82.2 | | 30 - 110 | | | | | 06/16/25 08:26 | 07/09/25 12:10 | 1 |

Eurofins Albuquerque

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-26493-2

Date Collected: 06/10/25 00:00

Matrix: Water

Date Received: 06/11/25 08:32

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.41 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2,3-Trichloropropane | ND | | 2.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.75 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 1-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 06/20/25 21:50 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | 0.25 | ug/L | | | 06/20/25 21:50 | 1 |
| 2-Butanone | ND | | 10 | 2.0 | ug/L | | | 06/20/25 21:50 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 2-Hexanone | ND | | 10 | 2.0 | ug/L | | | 06/20/25 21:50 | 1 |
| 2-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 06/20/25 21:50 | 1 |
| 4-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 1.0 | ug/L | | | 06/20/25 21:50 | 1 |
| Acetone | ND | | 10 | 2.5 | ug/L | | | 06/20/25 21:50 | 1 |
| Benzene | ND | | 1.0 | 0.15 | ug/L | | | 06/20/25 21:50 | 1 |
| Bromobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:50 | 1 |
| Bromomethane | ND | | 3.0 | 2.0 | ug/L | | | 06/20/25 21:50 | 1 |
| Carbon disulfide | ND | | 10 | 0.40 | ug/L | | | 06/20/25 21:50 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.50 | ug/L | | | 06/20/25 21:50 | 1 |
| Chloroethane | ND | | 2.0 | 0.40 | ug/L | | | 06/20/25 21:50 | 1 |
| Chloroform | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:50 | 1 |
| Chloromethane | ND | | 3.0 | 1.0 | ug/L | | | 06/20/25 21:50 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:50 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Dibromomethane | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:50 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.50 | ug/L | | | 06/20/25 21:50 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:50 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-26493-2

Date Collected: 06/10/25 00:00

Matrix: Water

Date Received: 06/11/25 08:32

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Methyl-tert-butyl Ether (MTBE) | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:50 | 1 |
| Methylene Chloride | ND | | 2.5 | 1.0 | ug/L | | | 06/20/25 21:50 | 1 |
| n-Butylbenzene | ND | | 3.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Naphthalene | ND | | 2.0 | 0.50 | ug/L | | | 06/20/25 21:50 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Styrene | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 21:50 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 21:50 | 1 |
| Tetrachloroethene (PCE) | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Trichloroethene (TCE) | ND | | 1.0 | 0.30 | ug/L | | | 06/20/25 21:50 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.30 | ug/L | | | 06/20/25 21:50 | 1 |
| Xylenes, Total | ND | | 1.5 | 0.20 | ug/L | | | 06/20/25 21:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 130 | | 06/20/25 21:50 | 1 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | 06/20/25 21:50 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | 06/20/25 21:50 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 70 - 130 | | 06/20/25 21:50 | 1 |

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND | | 0.0098 | 0.0078 | ug/L | | 06/13/25 09:38 | 06/13/25 18:58 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.020 | 0.0083 | ug/L | | 06/13/25 09:38 | 06/13/25 18:58 | 1 |

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

CATION/ANION BALANCE SHEET FOR WATER ANALYSES

| | | | | | | | | | |
|--------------------------------------|---------------------|-------|------|-------|------|-------|------|-------|------|
| HEAL LAB NUMBER | WDW-1-MW-1 20250610 | | | | | | | | |
| | 885-26493 | | | | | | | | |
| CATIONS | mg/L | meq/L | mg/L | meq/L | mg/L | meq/L | mg/L | meq/L | mg/L |
| Sodium | 520 | 22.62 | | | | | | | |
| Potassium | 28 | 0.72 | | | | | | | |
| Calcium | 820 | 40.92 | | | | | | | |
| Magnesium | 51 | 4.20 | | | | | | | |
| Total Cations | | 68.45 | | | | | | | |
| ANIONS | mg/L | meq/L | mg/L | meq/L | mg/L | meq/L | mg/L | meq/L | mg/L |
| Sulfate | 1800 | 37.48 | | | | | | | |
| Chloride | 1100 | 31.03 | | | | | | | |
| Bicarbonate (CaCO3) | 41 | 0.82 | - | | | | | | |
| Carbonate (CaCO3) | | | | | | | | | |
| Phosphate (P) | | | | | | | | | |
| Nitrite (N) | | | | | | | | | |
| Nitrate (N) | | | | | - | | | | |
| Fluoride | | | | | | | | | |
| Bromide | 1.7 | 0.02 | | | | | | | |
| Total Anions | | 69.35 | | | | | | | |
| Elect. Cond. (µMhos/cm) | 5800 | | | | | | | | |
| CATION/ANION RATIO | | 0.99 | | | | | | | |
| % Difference | | 1 | | | | | | | |
| TOTAL DISSOLVED SOLIDS RATIOS | | | | | | | | | |
| TDS (measured) | 4500 | | | | | | | | |
| TDS (calculated) | 4345 | | | | | | | | |
| Ratio meas TDS:calc TDS | | 1.0 | | | | | | | |
| Ratio Meas. TDS:EC | | 0.78 | | | | | | | |
| Ratio Calc. TDS:EC | | 0.75 | | | | | | | |
| Ratio of anion sum:EC | | 1.2 | | | | | | | |
| Ratio of cation sum:EC | | 1.2 | | | | | | | |

* Analyte not detected (below method detection limit).

** Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

GENERALLY ACCEPTED RANGES

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, >10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1

Tracer/Carrier Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|---------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba
(30-110) | |
| 885-26493-1 | WDW-1-MW-1 20250610 | 85.3 | |
| LCS 160-722503/2-A | Lab Control Sample | 83.8 | |
| MB 160-722503/1-A | Method Blank | 88.6 | |
| Tracer/Carrier Legend | | | |
| Ba = Ba Carrier | | | |

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|---------------------|-----------------------------------|---------------|
| Lab Sample ID | Client Sample ID | Ba
(30-110) | Y
(30-110) |
| 885-26493-1 | WDW-1-MW-1 20250610 | 85.3 | 82.2 |
| LCS 160-722504/2-A | Lab Control Sample | 83.8 | 81.9 |
| MB 160-722504/1-A | Method Blank | 88.6 | 84.1 |
| Tracer/Carrier Legend | | | |
| Ba = Ba Carrier | | | |
| Y = Y Carrier | | | |

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

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

Lab Sample ID: MB 885-28780/5
Matrix: Water
Analysis Batch: 28780

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.41 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2,3-Trichloropropane | ND | | 2.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.75 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 1-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 06/20/25 18:09 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | 0.25 | ug/L | | | 06/20/25 18:09 | 1 |
| 2-Butanone | ND | | 10 | 2.0 | ug/L | | | 06/20/25 18:09 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 2-Hexanone | ND | | 10 | 2.0 | ug/L | | | 06/20/25 18:09 | 1 |
| 2-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 06/20/25 18:09 | 1 |
| 4-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 1.0 | ug/L | | | 06/20/25 18:09 | 1 |
| Acetone | ND | | 10 | 2.5 | ug/L | | | 06/20/25 18:09 | 1 |
| Benzene | ND | | 1.0 | 0.15 | ug/L | | | 06/20/25 18:09 | 1 |
| Bromobenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 18:09 | 1 |
| Bromomethane | ND | | 3.0 | 2.0 | ug/L | | | 06/20/25 18:09 | 1 |
| Carbon disulfide | ND | | 10 | 0.40 | ug/L | | | 06/20/25 18:09 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.50 | ug/L | | | 06/20/25 18:09 | 1 |
| Chloroethane | ND | | 2.0 | 0.40 | ug/L | | | 06/20/25 18:09 | 1 |
| Chloroform | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 18:09 | 1 |
| Chloromethane | ND | | 3.0 | 1.0 | ug/L | | | 06/20/25 18:09 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 18:09 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Dibromomethane | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 18:09 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.50 | ug/L | | | 06/20/25 18:09 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 18:09 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

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

Lab Sample ID: MB 885-28780/5
Matrix: Water
Analysis Batch: 28780

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Isopropylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Methyl-tert-butyl Ether (MTBE) | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 18:09 | 1 |
| Methylene Chloride | ND | | 2.5 | 1.0 | ug/L | | | 06/20/25 18:09 | 1 |
| n-Butylbenzene | ND | | 3.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Naphthalene | ND | | 2.0 | 0.50 | ug/L | | | 06/20/25 18:09 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Styrene | ND | | 1.0 | 0.25 | ug/L | | | 06/20/25 18:09 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 06/20/25 18:09 | 1 |
| Tetrachloroethene (PCE) | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Trichloroethene (TCE) | ND | | 1.0 | 0.30 | ug/L | | | 06/20/25 18:09 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.30 | ug/L | | | 06/20/25 18:09 | 1 |
| Xylenes, Total | ND | | 1.5 | 0.20 | ug/L | | | 06/20/25 18:09 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 130 | | 06/20/25 18:09 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 06/20/25 18:09 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | 06/20/25 18:09 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 70 - 130 | | 06/20/25 18:09 | 1 |

Lab Sample ID: LCS 885-28780/4
Matrix: Water
Analysis Batch: 28780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloroethene | 20.0 | 18.1 | | ug/L | | 90 | 70 - 130 |
| Benzene | 20.0 | 22.8 | | ug/L | | 114 | 70 - 130 |
| Chlorobenzene | 20.0 | 21.1 | | ug/L | | 106 | 70 - 130 |
| Toluene | 20.0 | 20.7 | | ug/L | | 104 | 70 - 130 |
| Trichloroethene (TCE) | 20.0 | 18.8 | | ug/L | | 94 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 96 | | 70 - 130 |

Lab Sample ID: MB 570-588153/5
Matrix: Water
Analysis Batch: 588153

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,3-Dichloropropene, Total | ND | | 1.0 | 0.31 | ug/L | | | 06/23/25 19:41 | 1 |
| Acrolein | ND | | 20 | 11 | ug/L | | | 06/23/25 19:41 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

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

Lab Sample ID: MB 570-588153/5
Matrix: Water
Analysis Batch: 588153

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Acrylonitrile | ND | | 10 | 2.7 | ug/L | | | 06/23/25 19:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.26 | ug/L | | | 06/23/25 19:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.31 | ug/L | | | 06/23/25 19:41 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 80 - 120 | | 06/23/25 19:41 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 120 | | 06/23/25 19:41 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 80 - 120 | | 06/23/25 19:41 | 1 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | 06/23/25 19:41 | 1 |

Lab Sample ID: LCS 570-588153/1002
Matrix: Water
Analysis Batch: 588153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|--------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Acrolein | 40.0 | 34.2 | | ug/L | | 85 | 24 - 169 |
| Acrylonitrile | 20.0 | 19.7 | | ug/L | | 99 | 63 - 140 |
| cis-1,3-Dichloropropene | 20.0 | 20.8 | | ug/L | | 104 | 76 - 125 |
| trans-1,3-Dichloropropene | 20.0 | 21.4 | | ug/L | | 107 | 73 - 127 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 94 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 95 | | 80 - 120 |
| Toluene-d8 (Surr) | 97 | | 80 - 120 |

Lab Sample ID: LCSD 570-588153/3
Matrix: Water
Analysis Batch: 588153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD | LCSD | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------|-------------|--------|-----------|------|---|------|-------------|-----|-----------|
| | | Result | Qualifier | | | | | | |
| Acrolein | 40.0 | 34.9 | | ug/L | | 87 | 24 - 169 | 2 | 30 |
| Acrylonitrile | 20.0 | 18.3 | | ug/L | | 91 | 63 - 140 | 8 | 20 |
| cis-1,3-Dichloropropene | 20.0 | 20.1 | | ug/L | | 100 | 76 - 125 | 4 | 20 |
| trans-1,3-Dichloropropene | 20.0 | 19.8 | | ug/L | | 99 | 73 - 127 | 8 | 20 |

| Surrogate | LCSD | LCSD | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 95 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 96 | | 80 - 120 |
| Toluene-d8 (Surr) | 98 | | 80 - 120 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-712940/1-A
Matrix: Water
Analysis Batch: 713722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 712940

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|--------------|--------------|----------|-----|------|---|----------------|----------------|---------|
| Prometon | ND | | 4.0 | 1.8 | ug/L | | 06/16/25 07:00 | 06/23/25 13:46 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Triphenylphosphate | 83 | | 16 - 164 | | | | 06/16/25 07:00 | 06/23/25 13:46 | 1 |

Lab Sample ID: LCS 400-712940/2-A
Matrix: Water
Analysis Batch: 713722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 712940

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------|---------------|---------------|---------------|------|---|------|-------------|
| Prometon | 20.0 | 18.9 | | ug/L | | 94 | 55 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| Triphenylphosphate | 99 | | 16 - 164 | | | | |

Lab Sample ID: LCSD 400-712940/3-A
Matrix: Water
Analysis Batch: 713722

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 712940

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------|----------------|----------------|----------------|------|---|------|-------------|-----|-----------|
| Prometon | 20.0 | 18.5 | | ug/L | | 92 | 55 - 130 | 2 | 50 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | |
| Triphenylphosphate | 95 | | 16 - 164 | | | | | | |

Lab Sample ID: MB 400-713031/1-A
Matrix: Water
Analysis Batch: 713401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 713031

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|-----|------|---|----------------|----------------|---------|
| Benzidine | ND | | 25 | 10 | ug/L | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| N-Nitrosodi-n-butylamine | ND | | 10 | 8.7 | ug/L | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| Sulfolane | ND | | 10 | 1.4 | ug/L | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| Pentachlorobenzene | ND | | 10 | 2.8 | ug/L | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | 10 | 3.3 | ug/L | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| Atrazine | ND | | 10 | 5.0 | ug/L | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| N-Nitrosodiethylamine | ND | | 10 | 3.4 | ug/L | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| N-Nitrosopyrrolidine | ND | | 10 | 3.4 | ug/L | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Phenol-d5 (Surr) | 25 | | 10 - 129 | | | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| Terphenyl-d14 (Surr) | 99 | | 13 - 150 | | | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| 2,4,6-Tribromophenol (Surr) | 71 | | 10 - 150 | | | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| 2-Fluorobiphenyl | 63 | | 21 - 114 | | | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| 2-Fluorophenol (Surr) | 38 | | 10 - 105 | | | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |
| Nitrobenzene-d5 (Surr) | 66 | | 16 - 127 | | | | 06/17/25 07:00 | 06/19/25 15:46 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-713031/2-A
Matrix: Water
Analysis Batch: 713401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713031

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------------------------|-------------|------------|---------------|------|---|------|----------|
| Benzidine | 630 | 147 | | ug/L | | 23 | 10 - 73 |
| N-Nitrosodi-n-butylamine | 120 | 35.5 | *- | ug/L | | 30 | 40 - 140 |
| Sulfolane | 243 | ND | *- | ug/L | | 0 | 10 - 133 |
| Pentachlorobenzene | 120 | 32.3 | *- | ug/L | | 27 | 29 - 143 |
| 1,2,4,5-Tetrachlorobenzene | 120 | 53.1 | | ug/L | | 44 | 15 - 149 |
| Atrazine | 120 | ND | *- | ug/L | | 0 | 10 - 150 |
| N-Nitrosodiethylamine | 120 | 31.6 | | ug/L | | 26 | 10 - 115 |
| N-Nitrosopyrrolidine | 120 | 27.4 | *- | ug/L | | 23 | 25 - 113 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| Phenol-d5 (Surr) | 21 | | 10 - 129 |
| Terphenyl-d14 (Surr) | 60 | | 13 - 150 |
| 2,4,6-Tribromophenol (Surr) | 56 | | 10 - 150 |
| 2-Fluorobiphenyl | 47 | | 21 - 114 |
| 2-Fluorophenol (Surr) | 28 | | 10 - 105 |
| Nitrobenzene-d5 (Surr) | 46 | | 16 - 127 |

Lab Sample ID: LCSD 400-713031/3-A
Matrix: Water
Analysis Batch: 713401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 713031

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------------------------|-------------|-------------|----------------|------|---|------|----------|-----|-------|
| Benzidine | 630 | 300 | *1 | ug/L | | 48 | 10 - 73 | 68 | 40 |
| N-Nitrosodi-n-butylamine | 120 | 60.7 | *1 | ug/L | | 51 | 40 - 140 | 52 | 40 |
| Sulfolane | 243 | ND | *- | ug/L | | 0 | 10 - 133 | NC | 40 |
| Pentachlorobenzene | 120 | 55.8 | *1 | ug/L | | 47 | 29 - 143 | 53 | 40 |
| 1,2,4,5-Tetrachlorobenzene | 120 | 105 | *1 | ug/L | | 87 | 15 - 149 | 65 | 40 |
| Atrazine | 120 | ND | *- | ug/L | | 0 | 10 - 150 | NC | 40 |
| N-Nitrosodiethylamine | 120 | 51.8 | *1 | ug/L | | 43 | 10 - 115 | 48 | 40 |
| N-Nitrosopyrrolidine | 120 | 43.1 | *1 | ug/L | | 36 | 25 - 113 | 44 | 40 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| Phenol-d5 (Surr) | 35 | | 10 - 129 |
| Terphenyl-d14 (Surr) | 90 | | 13 - 150 |
| 2,4,6-Tribromophenol (Surr) | 92 | | 10 - 150 |
| 2-Fluorobiphenyl | 77 | | 21 - 114 |
| 2-Fluorophenol (Surr) | 48 | | 10 - 105 |
| Nitrobenzene-d5 (Surr) | 73 | | 16 - 127 |

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 885-28181/1-A
Matrix: Water
Analysis Batch: 28246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28181

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|-------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.078 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.087 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 885-28181/1-A
 Matrix: Water
 Analysis Batch: 28246

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 28181

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.090 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.0 | 0.082 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 1,4-Dioxane | ND | | 0.50 | 0.23 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 1-Methylnaphthalene | ND | | 0.20 | 0.097 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,4,5-Trichlorophenol | ND | | 1.0 | 0.075 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,4,6-Trichlorophenol | ND | | 1.0 | 0.082 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,4-Dichlorophenol | ND | | 1.0 | 0.072 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,4-Dimethylphenol | ND | | 1.0 | 0.099 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,4-Dinitrophenol | ND | | 3.0 | 1.4 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.0 | 0.078 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.0 | 0.51 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2-Chloronaphthalene | ND | | 1.0 | 0.062 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2-Chlorophenol | ND | | 1.0 | 0.31 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2-Methylnaphthalene | ND | | 0.20 | 0.087 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2-Methylphenol | ND | | 1.0 | 0.063 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2-Nitroaniline | ND | | 1.0 | 0.38 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2-Nitrophenol | ND | | 1.0 | 0.079 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 3 & 4 Methylphenol | ND | | 1.0 | 0.066 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 1.0 | 0.63 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 3-Nitroaniline | ND | | 1.0 | 0.36 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2.0 | 1.2 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.0 | 0.077 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 4-Chloro-3-methylphenol | ND | | 1.0 | 0.12 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 4-Chloroaniline | ND | | 1.0 | 0.33 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 1.0 | 0.062 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 4-Nitroaniline | ND | | 1.0 | 0.50 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 4-Nitrophenol | ND | | 1.0 | 0.64 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Acenaphthene | ND | | 0.20 | 0.085 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Acenaphthylene | ND | | 0.20 | 0.064 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Aniline | ND | | 10 | 1.7 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Anthracene | ND | | 0.20 | 0.056 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Azobenzene | ND | | 1.0 | 0.49 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Benzo[a]anthracene | ND | | 0.20 | 0.047 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Benzo[a]pyrene | ND | | 0.070 | 0.057 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Benzo[b]fluoranthene | ND | | 0.20 | 0.066 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.20 | 0.056 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Benzo[k]fluoranthene | ND | | 0.20 | 0.048 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Benzoic acid | ND | | 15 | 7.1 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Benzyl alcohol | ND | | 1.0 | 0.14 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 1.0 | 0.060 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.0 | 0.090 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,2'-oxybis[1-chloropropane] | ND | | 1.0 | 0.092 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 1.0 | 0.95 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Butyl benzyl phthalate | 0.658 | J | 1.0 | 0.44 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Carbazole | ND | | 1.0 | 0.083 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Chrysene | ND | | 0.20 | 0.062 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Di-n-butyl phthalate | ND | | 1.5 | 1.1 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Di-n-octyl phthalate | ND | | 1.0 | 0.061 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.20 | 0.045 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 885-28181/1-A
 Matrix: Water
 Analysis Batch: 28246

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 28181

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Dibenzofuran | ND | | 1.0 | 0.075 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Diethyl phthalate | ND | | 1.5 | 1.5 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Dimethyl phthalate | ND | | 1.0 | 0.099 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Fluoranthene | ND | | 0.20 | 0.068 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Fluorene | ND | | 0.20 | 0.081 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Hexachlorobenzene | ND | | 5.0 | 0.49 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 3.5 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Hexachlorocyclopentadiene | ND | | 5.0 | 3.5 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Hexachloroethane | ND | | 5.0 | 3.3 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.20 | 0.058 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Isophorone | ND | | 1.0 | 0.22 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.0 | 0.65 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| N-Nitrosodimethylamine | ND | | 1.0 | 0.29 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.0 | 0.32 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Naphthalene | ND | | 0.20 | 0.077 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Nitrobenzene | ND | | 1.0 | 0.66 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Pentachlorophenol | ND | | 0.33 | 0.33 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Phenanthrene | ND | | 0.20 | 0.061 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Phenol | ND | | 1.0 | 0.28 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Pyrene | ND | | 0.20 | 0.067 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Pyridine | ND | | 10 | 2.6 | ug/L | | 06/13/25 07:00 | 06/13/25 13:21 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Phenol-d5 (Surr) | 67 | | 15 - 130 | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2,4,6-Tribromophenol (Surr) | 89 | | 15 - 130 | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| Nitrobenzene-d5 (Surr) | 119 | | 29 - 130 | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2-Fluorobiphenyl | 67 | | 20 - 130 | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| p-Terphenyl-d14 (Surr) | 104 | | 41 - 130 | 06/13/25 07:00 | 06/13/25 13:21 | 1 |
| 2-Fluorophenol (Surr) | 65 | | 15 - 130 | 06/13/25 07:00 | 06/13/25 13:21 | 1 |

Lab Sample ID: LCS 885-28181/2-A
 Matrix: Water
 Analysis Batch: 28246

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 28181

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,2,4-Trichlorobenzene | 5.71 | 1.09 | * | ug/L | | 19 | 34 - 94 |
| 1,2-Dichlorobenzene | 5.71 | 1.83 | | ug/L | | 32 | 32 - 107 |
| 1,3-Dichlorobenzene | 5.71 | 1.42 | | ug/L | | 25 | 22 - 108 |
| 1,4-Dichlorobenzene | 5.71 | 1.62 | J | ug/L | | 28 | 26 - 107 |
| 1,4-Dioxane | 5.71 | 2.50 | | ug/L | | 44 | 30 - 48 |
| 1-Methylnaphthalene | 5.71 | 2.25 | * | ug/L | | 39 | 54 - 108 |
| 2,4,5-Trichlorophenol | 5.71 | 5.62 | | ug/L | | 98 | 57 - 120 |
| 2,4,6-Trichlorophenol | 5.71 | 4.74 | | ug/L | | 83 | 42 - 107 |
| 2,4-Dichlorophenol | 5.71 | 5.41 | | ug/L | | 95 | 64 - 119 |
| 2,4-Dimethylphenol | 5.71 | 5.63 | | ug/L | | 99 | 70 - 130 |
| 2,4-Dinitrophenol | 5.71 | 3.61 | | ug/L | | 63 | 33 - 74 |
| 2,4-Dinitrotoluene | 5.71 | 6.11 | | ug/L | | 107 | 69 - 134 |
| 2,6-Dinitrotoluene | 5.71 | 6.00 | | ug/L | | 105 | 70 - 130 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 885-28181/2-A

Matrix: Water

Analysis Batch: 28246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28181

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 2-Chloronaphthalene | 5.71 | 2.61 | *- | ug/L | | 46 | 61 - 105 |
| 2-Chlorophenol | 5.71 | 5.87 | | ug/L | | 103 | 65 - 117 |
| 2-Methylnaphthalene | 5.71 | 1.97 | *- | ug/L | | 35 | 51 - 104 |
| 2-Methylphenol | 5.71 | 5.76 | | ug/L | | 101 | 70 - 130 |
| 2-Nitroaniline | 5.71 | 6.35 | | ug/L | | 111 | 69 - 133 |
| 2-Nitrophenol | 5.71 | 5.26 | | ug/L | | 92 | 52 - 127 |
| 3 & 4 Methylphenol | 5.71 | 5.80 | | ug/L | | 102 | 64 - 114 |
| 3,3'-Dichlorobenzidine | 5.71 | 3.46 | | ug/L | | 61 | 38 - 120 |
| 3-Nitroaniline | 5.71 | 3.66 | | ug/L | | 64 | 37 - 85 |
| 4,6-Dinitro-2-methylphenol | 5.71 | 3.43 | | ug/L | | 60 | 30 - 80 |
| 4-Bromophenyl phenyl ether | 5.71 | 3.40 | *- | ug/L | | 59 | 70 - 130 |
| 4-Chloro-3-methylphenol | 5.71 | 5.93 | | ug/L | | 104 | 70 - 130 |
| 4-Chloroaniline | 5.71 | 3.12 | | ug/L | | 55 | 37 - 60 |
| 4-Chlorophenyl phenyl ether | 5.71 | 2.46 | *- | ug/L | | 43 | 67 - 112 |
| 4-Nitroaniline | 5.71 | 4.61 | | ug/L | | 81 | 47 - 114 |
| 4-Nitrophenol | 5.71 | 1.97 | | ug/L | | 34 | 16 - 43 |
| Acenaphthene | 5.71 | 3.28 | *- | ug/L | | 57 | 70 - 130 |
| Acenaphthylene | 5.71 | 3.62 | *- | ug/L | | 63 | 70 - 130 |
| Aniline | 17.1 | 11.6 | *+ | ug/L | | 68 | 19 - 57 |
| Anthracene | 5.71 | 5.16 | | ug/L | | 90 | 70 - 130 |
| Azobenzene | 5.71 | 4.09 | | ug/L | | 71 | 43 - 115 |
| Benzo[a]anthracene | 5.71 | 6.47 | | ug/L | | 113 | 60 - 136 |
| Benzo[a]pyrene | 5.71 | 5.82 | | ug/L | | 102 | 46 - 150 |
| Benzo[b]fluoranthene | 5.71 | 6.31 | | ug/L | | 110 | 60 - 137 |
| Benzo[g,h,i]perylene | 5.71 | 5.24 | | ug/L | | 92 | 39 - 150 |
| Benzo[k]fluoranthene | 5.71 | 6.58 | | ug/L | | 115 | 59 - 138 |
| Benzoic acid | 42.9 | 18.6 | | ug/L | | 43 | 15 - 60 |
| Benzyl alcohol | 5.71 | 4.93 | | ug/L | | 86 | 51 - 100 |
| Bis(2-chloroethoxy)methane | 5.71 | 5.65 | | ug/L | | 99 | 70 - 130 |
| Bis(2-chloroethyl)ether | 5.71 | 5.84 | | ug/L | | 102 | 70 - 130 |
| 2,2'-oxybis[1-chloropropane] | 5.71 | 4.87 | | ug/L | | 85 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | 5.71 | 7.02 | | ug/L | | 123 | 39 - 139 |
| Butyl benzyl phthalate | 5.71 | 7.31 | | ug/L | | 128 | 60 - 135 |
| Carbazole | 5.71 | 6.20 | | ug/L | | 108 | 69 - 130 |
| Chrysene | 5.71 | 6.21 | | ug/L | | 109 | 64 - 141 |
| Di-n-butyl phthalate | 5.71 | 6.90 | | ug/L | | 121 | 64 - 138 |
| Di-n-octyl phthalate | 5.71 | 6.61 | | ug/L | | 116 | 46 - 121 |
| Dibenz(a,h)anthracene | 5.71 | 5.44 | | ug/L | | 95 | 39 - 150 |
| Dibenzofuran | 5.71 | 3.37 | *- | ug/L | | 59 | 70 - 130 |
| Diethyl phthalate | 5.71 | 6.14 | | ug/L | | 107 | 64 - 133 |
| Dimethyl phthalate | 5.71 | 6.03 | | ug/L | | 106 | 70 - 130 |
| Fluoranthene | 5.71 | 5.69 | | ug/L | | 100 | 70 - 130 |
| Fluorene | 5.71 | 3.41 | *- | ug/L | | 60 | 70 - 130 |
| Hexachlorobenzene | 5.71 | 4.40 | J | ug/L | | 77 | 62 - 126 |
| Hexachlorobutadiene | 5.71 | ND | *- | ug/L | | 6 | 15 - 100 |
| Hexachlorocyclopentadiene | 5.71 | ND | *- | ug/L | | 8 | 15 - 80 |
| Hexachloroethane | 5.71 | ND | *- | ug/L | | 12 | 15 - 101 |
| Indeno[1,2,3-cd]pyrene | 5.71 | 5.36 | | ug/L | | 94 | 44 - 150 |
| Isophorone | 5.71 | 5.60 | | ug/L | | 98 | 70 - 130 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 885-28181/2-A
Matrix: Water
Analysis Batch: 28246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28181

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| N-Nitrosodi-n-propylamine | 5.71 | 7.01 | | ug/L | | 123 | 70 - 130 |
| N-Nitrosodimethylamine | 5.71 | 2.14 | | ug/L | | 37 | 22 - 44 |
| N-Nitrosodiphenylamine | 5.71 | 5.54 | | ug/L | | 97 | 70 - 130 |
| Naphthalene | 5.71 | 2.12 | * | ug/L | | 37 | 56 - 105 |
| Nitrobenzene | 5.71 | 5.91 | | ug/L | | 103 | 70 - 130 |
| Pentachlorophenol | 5.71 | 4.62 | | ug/L | | 81 | 41 - 99 |
| Phenanthrene | 5.71 | 5.29 | | ug/L | | 93 | 70 - 130 |
| Phenol | 5.71 | 4.05 | | ug/L | | 71 | 39 - 82 |
| Pyrene | 5.71 | 5.76 | | ug/L | | 101 | 56 - 138 |
| Pyridine | 17.1 | 6.51 | J | ug/L | | 38 | 15 - 47 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| Phenol-d5 (Surr) | 68 | | 15 - 130 |
| 2,4,6-Tribromophenol (Surr) | 95 | | 15 - 130 |
| Nitrobenzene-d5 (Surr) | 119 | | 29 - 130 |
| 2-Fluorobiphenyl | 63 | | 20 - 130 |
| p-Terphenyl-d14 (Surr) | 111 | | 41 - 130 |
| 2-Fluorophenol (Surr) | 66 | | 15 - 130 |

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-28244/3-A
Matrix: Water
Analysis Batch: 28260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28244

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND | | 0.010 | 0.0080 | ug/L | | 06/13/25 09:38 | 06/13/25 17:29 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.020 | 0.0085 | ug/L | | 06/13/25 09:38 | 06/13/25 17:29 | 1 |

Lab Sample ID: LCS 885-28244/4-A
Matrix: Water
Analysis Batch: 28260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28244

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Ethylene Dibromide | 0.100 | 0.110 | | ug/L | | 110 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 0.100 | 0.0970 | | ug/L | | 97 | 70 - 130 |

Lab Sample ID: LCSD 885-28244/5-A
Matrix: Water
Analysis Batch: 28260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28244

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Ethylene Dibromide | 0.100 | 0.111 | | ug/L | | 111 | 70 - 130 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.100 | 0.104 | | ug/L | | 104 | 70 - 130 | 7 | 20 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MRL 885-28244/1-A
Matrix: Water
Analysis Batch: 28260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28244

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Ethylene Dibromide | 0.0100 | ND | | ug/L | | 61 | 60 - 140 |
| 1,2-Dibromo-3-Chloropropane | 0.0100 | ND | | ug/L | | 69 | 60 - 140 |

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-584606/1-A
Matrix: Water
Analysis Batch: 588912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584606

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|--------------|----------|--------|------|---|----------------|----------------|---------|
| 4,4'-DDD | ND | | 0.020 | 0.0044 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| 4,4'-DDE | ND | | 0.020 | 0.0057 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| 4,4'-DDT | ND | | 0.020 | 0.0078 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Aldrin | ND | | 0.020 | 0.0054 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| alpha-BHC | ND | | 0.020 | 0.0019 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| beta-BHC | ND | | 0.020 | 0.013 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Chlordane | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Chlordane (technical) Peak 1 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Chlordane (technical) Peak 2 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Chlordane (technical) Peak 3 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Chlordane (technical) Peak 4 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Chlordane (technical) Peak 5 | ND | | 0.20 | 0.058 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| delta-BHC | ND | | 0.020 | 0.0015 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Dieldrin | ND | | 0.020 | 0.0032 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Endosulfan I | ND | | 0.020 | 0.0069 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Endosulfan II | ND | | 0.020 | 0.0037 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Endosulfan sulfate | ND | | 0.020 | 0.0063 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Endrin | ND | | 0.020 | 0.0035 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Endrin aldehyde | ND | | 0.020 | 0.0072 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| gamma-BHC (Lindane) | ND | | 0.020 | 0.0020 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Heptachlor | ND | | 0.020 | 0.0034 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Heptachlor epoxide | ND | | 0.020 | 0.0029 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Methoxychlor | ND | | 0.020 | 0.0091 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Toxaphene | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Toxaphene Peak 1 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Toxaphene Peak 2 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Toxaphene Peak 3 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Toxaphene Peak 4 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Toxaphene Peak 5 | ND | | 0.40 | 0.11 | ug/L | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 98 | | 20 - 120 | | | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |
| Tetrachloro-m-xylene | 82 | | 32 - 127 | | | | 06/16/25 10:14 | 06/24/25 22:50 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 570-584606/2-A
 Matrix: Water
 Analysis Batch: 595047

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 584606

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
| 4,4'-DDD | 2.02 | 2.18 | | ug/L | | 108 | 60 - 120 |
| 4,4'-DDE | 2.02 | 2.04 | | ug/L | | 101 | 44 - 120 |
| 4,4'-DDT | 2.02 | 2.29 | | ug/L | | 113 | 41 - 120 |
| Aldrin | 2.02 | 1.93 | | ug/L | | 95 | 45 - 120 |
| alpha-BHC | 2.02 | 1.93 | | ug/L | | 96 | 70 - 120 |
| beta-BHC | 2.02 | 1.96 | | ug/L | | 97 | 69 - 120 |
| delta-BHC | 2.02 | 1.90 | | ug/L | | 94 | 55 - 120 |
| Dieldrin | 2.02 | 2.16 | | ug/L | | 107 | 67 - 120 |
| Endosulfan I | 2.02 | 2.01 | | ug/L | | 99 | 62 - 120 |
| Endosulfan II | 2.02 | 2.08 | | ug/L | | 103 | 63 - 120 |
| Endosulfan sulfate | 2.02 | 2.14 | | ug/L | | 106 | 45 - 121 |
| Endrin | 2.02 | 2.22 | | ug/L | | 110 | 62 - 120 |
| Endrin aldehyde | 2.02 | 2.12 | | ug/L | | 105 | 66 - 120 |
| gamma-BHC (Lindane) | 2.02 | 2.07 | | ug/L | | 102 | 69 - 120 |
| Heptachlor | 2.02 | 1.87 | | ug/L | | 92 | 50 - 120 |
| Heptachlor epoxide | 2.02 | 2.05 | | ug/L | | 101 | 66 - 120 |
| Methoxychlor | 2.02 | 2.03 | | ug/L | | 100 | 46 - 120 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------------------------|---------------|---------------|----------|
| DCB Decachlorobiphenyl (Surr) | 93 | | 20 - 120 |
| Tetrachloro-m-xylene | 92 | | 32 - 127 |

Lab Sample ID: LCSD 570-584606/3-A
 Matrix: Water
 Analysis Batch: 595047

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 584606

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-------|
| 4,4'-DDD | 2.03 | 2.27 | | ug/L | | 112 | 60 - 120 | 4 | 30 |
| 4,4'-DDE | 2.03 | 2.10 | | ug/L | | 103 | 44 - 120 | 3 | 30 |
| 4,4'-DDT | 2.03 | 2.39 | | ug/L | | 118 | 41 - 120 | 4 | 30 |
| Aldrin | 2.03 | 1.99 | | ug/L | | 98 | 45 - 120 | 3 | 30 |
| alpha-BHC | 2.03 | 2.00 | | ug/L | | 98 | 70 - 120 | 3 | 30 |
| beta-BHC | 2.03 | 2.02 | | ug/L | | 100 | 69 - 120 | 3 | 30 |
| delta-BHC | 2.03 | 1.86 | | ug/L | | 91 | 55 - 120 | 2 | 30 |
| Dieldrin | 2.03 | 2.24 | | ug/L | | 110 | 67 - 120 | 3 | 30 |
| Endosulfan I | 2.03 | 2.08 | | ug/L | | 103 | 62 - 120 | 4 | 30 |
| Endosulfan II | 2.03 | 2.18 | | ug/L | | 107 | 63 - 120 | 5 | 30 |
| Endosulfan sulfate | 2.03 | 1.79 | | ug/L | | 88 | 45 - 121 | 18 | 30 |
| Endrin | 2.03 | 2.27 | | ug/L | | 112 | 62 - 120 | 2 | 30 |
| Endrin aldehyde | 2.03 | 2.24 | | ug/L | | 110 | 66 - 120 | 6 | 30 |
| gamma-BHC (Lindane) | 2.03 | 2.14 | | ug/L | | 105 | 69 - 120 | 3 | 30 |
| Heptachlor | 2.03 | 1.94 | | ug/L | | 95 | 50 - 120 | 4 | 30 |
| Heptachlor epoxide | 2.03 | 2.11 | | ug/L | | 104 | 66 - 120 | 3 | 30 |
| Methoxychlor | 2.03 | 2.01 | | ug/L | | 99 | 46 - 120 | 1 | 30 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-------------------------------|----------------|----------------|----------|
| DCB Decachlorobiphenyl (Surr) | 93 | | 20 - 120 |
| Tetrachloro-m-xylene | 94 | | 32 - 127 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: 885-26493-1 MS

Matrix: Water

Analysis Batch: 595047

Client Sample ID: WDW-1-MW-1 20250610

Prep Type: Total/NA

Prep Batch: 584606

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| 4,4'-DDD | ND | | 2.00 | 2.93 | F1 | ug/L | | 146 | 70 - 130 |
| 4,4'-DDE | ND | | 2.00 | 2.70 | F1 | ug/L | | 135 | 70 - 130 |
| 4,4'-DDT | ND | | 2.00 | 2.86 | F1 | ug/L | | 143 | 70 - 130 |
| Aldrin | ND | | 2.00 | 2.56 | | ug/L | | 128 | 70 - 130 |
| alpha-BHC | ND | | 2.00 | 2.47 | | ug/L | | 124 | 70 - 130 |
| beta-BHC | ND | | 2.00 | 2.50 | | ug/L | | 125 | 70 - 130 |
| delta-BHC | ND | | 2.00 | 2.37 | | ug/L | | 118 | 70 - 130 |
| Dieldrin | ND | | 2.00 | 2.86 | F1 | ug/L | | 143 | 70 - 130 |
| Endosulfan I | ND | | 2.00 | 2.57 | | ug/L | | 129 | 70 - 130 |
| Endosulfan II | ND | | 2.00 | 2.50 | | ug/L | | 125 | 70 - 130 |
| Endosulfan sulfate | ND | | 2.00 | 2.28 | | ug/L | | 114 | 70 - 130 |
| Endrin | ND | | 2.00 | 2.94 | F1 | ug/L | | 147 | 70 - 130 |
| Endrin aldehyde | ND | | 2.00 | 2.27 | | ug/L | | 114 | 70 - 130 |
| gamma-BHC (Lindane) | ND | | 2.00 | 2.64 | F1 | ug/L | | 132 | 70 - 130 |
| Heptachlor | ND | | 2.00 | 2.41 | | ug/L | | 121 | 70 - 130 |
| Heptachlor epoxide | ND | | 2.00 | 2.69 | F1 | ug/L | | 135 | 70 - 130 |
| Methoxychlor | ND | | 2.00 | 2.55 | | ug/L | | 127 | 70 - 130 |

| Surrogate | %Recovery | MS Qualifier | MS Limits |
|-------------------------------|-----------|--------------|-----------|
| DCB Decachlorobiphenyl (Surr) | 150 | S1+ | 20 - 120 |
| Tetrachloro-m-xylene | 121 | | 32 - 127 |

Lab Sample ID: 885-26493-1 MSD

Matrix: Water

Analysis Batch: 595047

Client Sample ID: WDW-1-MW-1 20250610

Prep Type: Total/NA

Prep Batch: 584606

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------|-----|-------|
| 4,4'-DDD | ND | | 2.00 | 2.81 | | ug/L | | | | 4 | 30 |
| 4,4'-DDE | ND | | 2.00 | 2.63 | | ug/L | | | | 3 | 30 |
| 4,4'-DDT | ND | | 2.00 | 2.77 | | ug/L | | | | 3 | 30 |
| Aldrin | ND | | 2.00 | 2.55 | | ug/L | | | | 0 | 30 |
| alpha-BHC | ND | | 2.00 | 2.45 | | ug/L | | | | 1 | 30 |
| beta-BHC | ND | | 2.00 | 2.49 | | ug/L | | | | 1 | 30 |
| delta-BHC | ND | | 2.00 | 2.42 | | ug/L | | | | 2 | 30 |
| Dieldrin | ND | | 2.00 | 2.78 | | ug/L | | | | 3 | 30 |
| Endosulfan I | ND | | 2.00 | 2.52 | | ug/L | | | | 2 | 30 |
| Endosulfan II | ND | | 2.00 | 2.46 | | ug/L | | | | 2 | 30 |
| Endosulfan sulfate | ND | | 2.00 | 2.25 | | ug/L | | | | 1 | 30 |
| Endrin | ND | | 2.00 | 2.85 | | ug/L | | | | 3 | 30 |
| Endrin aldehyde | ND | | 2.00 | 2.25 | | ug/L | | | | 1 | 30 |
| gamma-BHC (Lindane) | ND | | 2.00 | 2.61 | | ug/L | | | | 1 | 30 |
| Heptachlor | ND | | 2.00 | 2.44 | | ug/L | | | | 1 | 30 |
| Heptachlor epoxide | ND | | 2.00 | 2.62 | | ug/L | | | | 3 | 30 |
| Methoxychlor | ND | | 2.00 | 2.54 | | ug/L | | | | 0 | 30 |

| Surrogate | %Recovery | MSD Qualifier | MSD Limits |
|-------------------------------|-----------|---------------|------------|
| DCB Decachlorobiphenyl (Surr) | 140 | S1+ | 20 - 120 |
| Tetrachloro-m-xylene | 119 | | 32 - 127 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-584606/1-A
Matrix: Water
Analysis Batch: 585270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584606

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 12:41 | 1 |
| PCB-1221 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 12:41 | 1 |
| PCB-1232 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 12:41 | 1 |
| PCB-1242 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 12:41 | 1 |
| PCB-1248 | ND | | 0.40 | 0.18 | ug/L | | 06/16/25 10:14 | 06/17/25 12:41 | 1 |
| PCB-1254 | ND | | 0.40 | 0.16 | ug/L | | 06/16/25 10:14 | 06/17/25 12:41 | 1 |
| PCB-1260 | ND | | 0.40 | 0.16 | ug/L | | 06/16/25 10:14 | 06/17/25 12:41 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene | 72 | | 33 - 137 | 06/16/25 10:14 | 06/17/25 12:41 | 1 |
| DCB Decachlorobiphenyl (Surr) | 89 | | 20 - 120 | 06/16/25 10:14 | 06/17/25 12:41 | 1 |

Lab Sample ID: 885-26493-1 MS
Matrix: Water
Analysis Batch: 585270

Client Sample ID: WDW-1-MW-1 20250610
Prep Type: Total/NA
Prep Batch: 584606

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| PCB-1016 | ND | | 8.05 | 10.0 | | ug/L | | 125 | 70 - 130 |
| PCB-1260 | ND | F1 *+ | 8.05 | 10.3 | | ug/L | | 128 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-------------------------------|--------------|--------------|----------|
| Tetrachloro-m-xylene | 91 | | 33 - 137 |
| DCB Decachlorobiphenyl (Surr) | 114 | | 20 - 120 |

Lab Sample ID: 885-26493-1 MSD
Matrix: Water
Analysis Batch: 585270

Client Sample ID: WDW-1-MW-1 20250610
Prep Type: Total/NA
Prep Batch: 584606

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| PCB-1016 | ND | | 7.92 | 9.52 | | ug/L | | 120 | 70 - 130 | 5 | 30 |
| PCB-1260 | ND | F1 *+ | 7.92 | 10.4 | F1 | ug/L | | 131 | 70 - 130 | 1 | 30 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-------------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene | 80 | | 33 - 137 |
| DCB Decachlorobiphenyl (Surr) | 120 | | 20 - 120 |

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RA

Lab Sample ID: LCS 570-584606/6-A
Matrix: Water
Analysis Batch: 585270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584606

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------|-------------|------------|---------------|------|---|------|-------------|
| PCB-1016 - RA | 8.11 | 9.09 | | ug/L | | 112 | 50 - 140 |
| PCB-1260 - RA | 8.11 | 9.38 | | ug/L | | 116 | 39 - 120 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RA (Continued)

Lab Sample ID: LCS 570-584606/6-A
Matrix: Water
Analysis Batch: 585270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584606

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene - RA | 77 | | 33 - 137 |
| DCB Decachlorobiphenyl (Surr) - RA | 97 | | 20 - 120 |

Lab Sample ID: LCSD 570-584606/7-A
Matrix: Water
Analysis Batch: 585270

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584606

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| PCB-1016 - RA | 8.02 | 9.62 | | ug/L | | 120 | 50 - 140 | 6 | 30 |
| PCB-1260 - RA | 8.02 | 10.1 | *+ | ug/L | | 125 | 39 - 120 | 7 | 30 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|------------------------------------|----------------|----------------|----------|
| Tetrachloro-m-xylene - RA | 83 | | 33 - 137 |
| DCB Decachlorobiphenyl (Surr) - RA | 108 | | 20 - 120 |

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-583827/1-A
Matrix: Water
Analysis Batch: 584465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583827

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| 2,4,5-T | ND | | 0.50 | 0.21 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| 2,4,5-TP (Silvex) | ND | | 0.50 | 0.14 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| 2,4-D | ND | | 5.0 | 2.0 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| 2,4-DB | ND | | 5.0 | 3.5 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| Dalapon | ND | | 13 | 4.7 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| Dicamba | ND | | 0.50 | 0.29 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| Dichlorprop | ND | | 5.0 | 2.0 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| Dinoseb | ND | | 2.5 | 2.2 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| MCPA | ND | | 500 | 350 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |
| MCPP | ND | | 500 | 310 | ug/L | | 06/13/25 13:20 | 06/16/25 15:30 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2,4-Dichlorophenylacetic acid (Surr) | 98 | | 20 - 161 | 06/13/25 13:20 | 06/16/25 15:30 | 1 |

Lab Sample ID: LCS 570-583827/2-A
Matrix: Water
Analysis Batch: 584465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583827

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| 2,4,5-T | 1.00 | 1.04 | | ug/L | | 104 | 28 - 180 |
| 2,4-D | 10.0 | 10.7 | | ug/L | | 107 | 10 - 180 |
| 2,4-DB | 10.0 | 10.7 | | ug/L | | 107 | 10 - 180 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 570-583827/2-A
Matrix: Water
Analysis Batch: 584465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583827

| Surrogate | LCS
%Recovery | LCS
Qualifier | Limits |
|---|------------------|------------------|----------|
| 2,4-Dichlorophenylacetic acid
(Surr) | 98 | | 20 - 161 |

Lab Sample ID: LCSD 570-583827/3-A
Matrix: Water
Analysis Batch: 584465

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 583827

| Analyte | Spike
Added | LCSD
Result | LCSD
Qualifier | Unit | D | %Rec | %Rec
Limits | RPD | RPD
Limit |
|---------|----------------|----------------|-------------------|------|---|------|----------------|-----|--------------|
| 2,4,5-T | 1.00 | 1.05 | | ug/L | | 105 | 28 - 180 | 1 | 20 |
| 2,4-D | 10.0 | 10.3 | | ug/L | | 103 | 10 - 180 | 4 | 20 |
| 2,4-DB | 10.0 | 10.3 | | ug/L | | 103 | 10 - 180 | 4 | 20 |

| Surrogate | LCSD
%Recovery | LCSD
Qualifier | Limits |
|---|-------------------|-------------------|----------|
| 2,4-Dichlorophenylacetic acid
(Surr) | 95 | | 20 - 161 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28068/4
Matrix: Water
Analysis Batch: 28068

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB
Result | MB
Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|------|---|----------|----------------|---------|
| Bromide | ND | | 0.10 | 0.050 | mg/L | | | 06/11/25 13:23 | 1 |
| Chloride | ND | | 0.50 | 0.25 | mg/L | | | 06/11/25 13:23 | 1 |
| Fluoride | ND | | 0.10 | 0.046 | mg/L | | | 06/11/25 13:23 | 1 |
| Sulfate | ND | | 0.50 | 0.39 | mg/L | | | 06/11/25 13:23 | 1 |

Lab Sample ID: LCS 885-28068/5
Matrix: Water
Analysis Batch: 28068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike
Added | LCS
Result | LCS
Qualifier | Unit | D | %Rec | %Rec
Limits |
|----------|----------------|---------------|------------------|------|---|------|----------------|
| Bromide | 2.50 | 2.43 | | mg/L | | 97 | 90 - 110 |
| Chloride | 5.00 | 5.00 | | mg/L | | 100 | 90 - 110 |
| Fluoride | 0.500 | 0.475 | | mg/L | | 95 | 90 - 110 |
| Sulfate | 10.0 | 9.59 | | mg/L | | 96 | 90 - 110 |

Lab Sample ID: MRL 885-28068/3
Matrix: Water
Analysis Batch: 28068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike
Added | MRL
Result | MRL
Qualifier | Unit | D | %Rec | %Rec
Limits |
|----------|----------------|---------------|------------------|------|---|------|----------------|
| Bromide | 0.100 | 0.116 | | mg/L | | 116 | 50 - 150 |
| Chloride | 0.500 | 0.548 | | mg/L | | 110 | 50 - 150 |
| Fluoride | 0.100 | 0.0934 | J | mg/L | | 93 | 50 - 150 |
| Sulfate | 0.500 | 0.524 | | mg/L | | 105 | 50 - 150 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-28069/4
Matrix: Water
Analysis Batch: 28069

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Nitrate | ND | | 0.10 | 0.020 | mg/L | | | 06/11/25 13:23 | 1 |
| Nitrite | ND | | 0.10 | 0.012 | mg/L | | | 06/11/25 13:23 | 1 |

Lab Sample ID: LCS 885-28069/5
Matrix: Water
Analysis Batch: 28069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Nitrate | 2.50 | 2.64 | | mg/L | | 105 | 90 - 110 |
| Nitrite | 1.00 | 0.975 | | mg/L | | 98 | 90 - 110 |

Lab Sample ID: MRL 885-28069/3
Matrix: Water
Analysis Batch: 28069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Nitrate | 0.100 | 0.0946 | J | mg/L | | 95 | 50 - 150 |
| Nitrite | 0.100 | 0.0990 | J | mg/L | | 99 | 50 - 150 |

Method: 8330 - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 570-584032/1-A
Matrix: Water
Analysis Batch: 584846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584032

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| 1,3,5-Trinitrobenzene | ND | | 1.1 | 0.57 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 1,3-Dinitrobenzene | ND | | 1.1 | 0.46 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 2,4,6-Trinitrotoluene | ND | | 1.1 | 0.81 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.1 | 0.48 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.1 | 0.42 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 2-Amino-4,6-DNT | ND | | 1.1 | 0.42 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 2-Nitrotoluene | ND | | 1.1 | 0.37 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 3-Nitrotoluene | ND | | 1.1 | 0.41 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 4-Amino-2,6-DNT | ND | | 1.1 | 0.41 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| 4-Nitrotoluene | ND | | 1.1 | 0.42 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| HMX | ND | | 1.1 | 0.58 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| Nitrobenzene | ND | | 1.1 | 0.41 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| RDX | ND | | 1.1 | 0.45 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |
| Tetryl | ND | | 1.1 | 0.95 | ug/L | | 06/13/25 21:12 | 06/16/25 16:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 1,2-Dinitrobenzene (Surr) | 108 | | 60 - 150 | 06/13/25 21:12 | 06/16/25 16:37 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Method: 8330 - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: LCS 570-584032/2-A
Matrix: Water
Analysis Batch: 584846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584032

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-----------------------|-------------|------------|---------------|------|---|------|----------|
| 1,3,5-Trinitrobenzene | 26.0 | 26.6 | | ug/L | | 103 | 44 - 152 |
| 1,3-Dinitrobenzene | 26.0 | 25.7 | | ug/L | | 99 | 48 - 162 |
| 2,4,6-Trinitrotoluene | 26.0 | 24.9 | | ug/L | | 96 | 48 - 162 |
| 2,4-Dinitrotoluene | 26.0 | 26.4 | | ug/L | | 102 | 47 - 155 |
| 2,6-Dinitrotoluene | 26.0 | 27.4 | | ug/L | | 106 | 49 - 145 |
| 2-Amino-4,6-DNT | 26.0 | 28.0 | | ug/L | | 108 | 49 - 145 |
| 2-Nitrotoluene | 26.0 | 26.5 | | ug/L | | 102 | 44 - 146 |
| 3-Nitrotoluene | 26.0 | 26.5 | | ug/L | | 102 | 43 - 157 |
| 4-Amino-2,6-DNT | 26.0 | 29.7 | | ug/L | | 114 | 47 - 149 |
| 4-Nitrotoluene | 26.0 | 26.8 | | ug/L | | 103 | 44 - 146 |
| HMX | 26.0 | 27.1 | | ug/L | | 104 | 43 - 133 |
| Nitrobenzene | 26.0 | 24.9 | | ug/L | | 96 | 36 - 150 |
| RDX | 26.0 | 25.3 | | ug/L | | 97 | 42 - 150 |
| Tetryl | 26.0 | 28.0 | | ug/L | | 108 | 40 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---------------------------|---------------|---------------|----------|
| 1,2-Dinitrobenzene (Surr) | 102 | | 60 - 150 |

Lab Sample ID: LCSD 570-584032/3-A
Matrix: Water
Analysis Batch: 584846

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584032

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------------------|-------------|-------------|----------------|------|---|------|----------|-----|-------|
| 1,3,5-Trinitrobenzene | 26.0 | 26.7 | | ug/L | | 103 | 44 - 152 | 0 | 13 |
| 1,3-Dinitrobenzene | 26.0 | 25.9 | | ug/L | | 100 | 48 - 162 | 1 | 12 |
| 2,4,6-Trinitrotoluene | 26.0 | 24.6 | | ug/L | | 95 | 48 - 162 | 1 | 12 |
| 2,4-Dinitrotoluene | 26.0 | 26.3 | | ug/L | | 101 | 47 - 155 | 0 | 13 |
| 2,6-Dinitrotoluene | 26.0 | 27.7 | | ug/L | | 107 | 49 - 145 | 1 | 12 |
| 2-Amino-4,6-DNT | 26.0 | 28.1 | | ug/L | | 108 | 49 - 145 | 0 | 14 |
| 2-Nitrotoluene | 26.0 | 26.6 | | ug/L | | 102 | 44 - 146 | 0 | 16 |
| 3-Nitrotoluene | 26.0 | 26.6 | | ug/L | | 103 | 43 - 157 | 0 | 15 |
| 4-Amino-2,6-DNT | 26.0 | 30.2 | | ug/L | | 116 | 47 - 149 | 2 | 19 |
| 4-Nitrotoluene | 26.0 | 26.8 | | ug/L | | 103 | 44 - 146 | 0 | 15 |
| HMX | 26.0 | 27.1 | | ug/L | | 104 | 43 - 133 | 0 | 13 |
| Nitrobenzene | 26.0 | 25.2 | | ug/L | | 97 | 36 - 150 | 1 | 15 |
| RDX | 26.0 | 25.3 | | ug/L | | 98 | 42 - 150 | 0 | 15 |
| Tetryl | 26.0 | 27.8 | | ug/L | | 107 | 40 - 130 | 0 | 14 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---------------------------|----------------|----------------|----------|
| 1,2-Dinitrobenzene (Surr) | 102 | | 60 - 150 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 331.0 - Perchlorate (LC/MS/MS)

Lab Sample ID: MB 570-584622/8
Matrix: Water
Analysis Batch: 584622

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Perchlorate | ND | | 0.10 | 0.020 | ug/L | | | 06/16/25 12:00 | 1 |

Lab Sample ID: LCS 570-584622/9
Matrix: Water
Analysis Batch: 584622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------|-------------|------------|---------------|------|---|------|-------------|
| Perchlorate | 10.0 | 10.5 | | ug/L | | 105 | 80 - 120 |

Lab Sample ID: LCSD 570-584622/10
Matrix: Water
Analysis Batch: 584622

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Perchlorate | 10.0 | 9.99 | | ug/L | | 100 | 80 - 120 | 5 | 20 |

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MB 320-858853/1-A
Matrix: Water
Analysis Batch: 859053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 858853

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluoroheptanoic acid (PFHpA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorooctanoic acid (PFOA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorononanoic acid (PFNA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorodecanoic acid (PFDA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluoroundecanoic acid (PFUnA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorododecanoic acid (PFDoA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorotetradecanoic acid (PFTA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | ND | | 0.0020 | 0.00050 | ug/L | | 06/20/25 04:29 | 06/21/25 00:26 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------------|--------------|----------|----------------|----------------|---------|
| 13C2 PFHxA | 94 | | 70 - 130 | 06/20/25 04:29 | 06/21/25 00:26 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MB 320-858853/1-A
Matrix: Water
Analysis Batch: 859053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 858853

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 13C2 PFDA | 94 | | 70 - 130 | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| d5-NEtFOSAA | 94 | | 70 - 130 | 06/20/25 04:29 | 06/21/25 00:26 | 1 |
| 13C3 HFPO-DA | 91 | | 70 - 130 | 06/20/25 04:29 | 06/21/25 00:26 | 1 |

Lab Sample ID: LCS 320-858853/3-A
Matrix: Water
Analysis Batch: 859053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 858853

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|--|-------------|------------|---------------|------|---|------|----------|
| | | | | | | | |
| Perfluorohexanoic acid (PFHxA) | 0.160 | 0.130 | | ug/L | | 81 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | 0.160 | 0.150 | | ug/L | | 94 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | 0.160 | 0.146 | | ug/L | | 91 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | 0.160 | 0.153 | | ug/L | | 96 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | 0.160 | 0.154 | | ug/L | | 96 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | 0.160 | 0.158 | | ug/L | | 99 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | 0.160 | 0.154 | | ug/L | | 96 | 70 - 130 |
| Perfluorotridecanoic acid (PFTrDA) | 0.160 | 0.160 | | ug/L | | 100 | 70 - 130 |
| Perfluorotetradecanoic acid (PFTA) | 0.160 | 0.159 | | ug/L | | 99 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | 0.142 | 0.125 | | ug/L | | 88 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | 0.146 | 0.138 | | ug/L | | 95 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | 0.149 | 0.132 | | ug/L | | 88 | 70 - 130 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.160 | 0.142 | | ug/L | | 89 | 70 - 130 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | 0.160 | 0.139 | | ug/L | | 87 | 70 - 130 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | 0.149 | 0.140 | | ug/L | | 94 | 70 - 130 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 0.151 | 0.144 | | ug/L | | 95 | 70 - 130 |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | 0.160 | 0.145 | | ug/L | | 91 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 0.151 | 0.139 | | ug/L | | 92 | 70 - 130 |

| Surrogate | LCS LCS | | Limits |
|--------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C2 PFHxA | 98 | | 70 - 130 |
| 13C2 PFDA | 97 | | 70 - 130 |
| d5-NEtFOSAA | 96 | | 70 - 130 |
| 13C3 HFPO-DA | 94 | | 70 - 130 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCSD 320-858853/4-A
Matrix: Water
Analysis Batch: 859053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 858853

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|---|-------------|-------------|----------------|------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | | |
| Perfluorohexanoic acid (PFHxA) | 0.160 | 0.145 | | ug/L | | 90 | 70 - 130 | 10 | 30 | |
| Perfluoroheptanoic acid (PFHpA) | 0.160 | 0.160 | | ug/L | | 100 | 70 - 130 | 7 | 30 | |
| Perfluorooctanoic acid (PFOA) | 0.160 | 0.157 | | ug/L | | 98 | 70 - 130 | 7 | 30 | |
| Perfluorononanoic acid (PFNA) | 0.160 | 0.158 | | ug/L | | 98 | 70 - 130 | 3 | 30 | |
| Perfluorodecanoic acid (PFDA) | 0.160 | 0.163 | | ug/L | | 102 | 70 - 130 | 6 | 30 | |
| Perfluoroundecanoic acid (PFUnA) | 0.160 | 0.164 | | ug/L | | 103 | 70 - 130 | 4 | 30 | |
| Perfluorododecanoic acid (PFDoA) | 0.160 | 0.162 | | ug/L | | 101 | 70 - 130 | 5 | 30 | |
| Perfluorotridecanoic acid (PFTTrDA) | 0.160 | 0.158 | | ug/L | | 99 | 70 - 130 | 1 | 30 | |
| Perfluorotetradecanoic acid (PFTA) | 0.160 | 0.163 | | ug/L | | 102 | 70 - 130 | 3 | 30 | |
| Perfluorobutanesulfonic acid (PFBS) | 0.142 | 0.124 | | ug/L | | 87 | 70 - 130 | 1 | 30 | |
| Perfluorohexanesulfonic acid (PFHxS) | 0.146 | 0.150 | | ug/L | | 103 | 70 - 130 | 8 | 30 | |
| Perfluorooctanesulfonic acid (PFOS) | 0.149 | 0.143 | | ug/L | | 96 | 70 - 130 | 8 | 30 | |
| N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA) | 0.160 | 0.156 | | ug/L | | 98 | 70 - 130 | 10 | 30 | |
| N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA) | 0.160 | 0.138 | | ug/L | | 86 | 70 - 130 | 1 | 30 | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | 0.149 | 0.147 | | ug/L | | 98 | 70 - 130 | 5 | 30 | |
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 0.151 | 0.152 | | ug/L | | 101 | 70 - 130 | 5 | 30 | |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | 0.160 | 0.158 | | ug/L | | 99 | 70 - 130 | 9 | 30 | |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 0.151 | 0.138 | | ug/L | | 91 | 70 - 130 | 1 | 30 | |

| Surrogate | LCSD | | Limits |
|--------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C2 PFHxA | 107 | | 70 - 130 |
| 13C2 PFDA | 102 | | 70 - 130 |
| d5-NEtFOSAA | 96 | | 70 - 130 |
| 13C3 HFPO-DA | 104 | | 70 - 130 |

Lab Sample ID: LLCS 320-858853/2-A
Matrix: Water
Analysis Batch: 859053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 858853

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec | | Limit |
|----------------------------------|-------------|-------------|----------------|------|---|------|----------|-----|-------|
| | | | | | | | Limits | RPD | |
| Perfluorohexanoic acid (PFHxA) | 0.00400 | 0.00380 | | ug/L | | 95 | 50 - 150 | | |
| Perfluoroheptanoic acid (PFHpA) | 0.00400 | 0.00403 | | ug/L | | 101 | 50 - 150 | | |
| Perfluorooctanoic acid (PFOA) | 0.00400 | 0.00404 | | ug/L | | 101 | 50 - 150 | | |
| Perfluorononanoic acid (PFNA) | 0.00400 | 0.00404 | | ug/L | | 101 | 50 - 150 | | |
| Perfluorodecanoic acid (PFDA) | 0.00400 | 0.00407 | | ug/L | | 102 | 50 - 150 | | |
| Perfluoroundecanoic acid (PFUnA) | 0.00400 | 0.00412 | | ug/L | | 103 | 50 - 150 | | |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 320-858853/2-A
Matrix: Water
Analysis Batch: 859053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 858853

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--|-------------|------------------|------------------|------|---|------|---------------|
| Perfluorododecanoic acid (PFDoA) | 0.00400 | 0.00420 | | ug/L | | 105 | 50 - 150 |
| Perfluorotridecanoic acid (PFTrDA) | 0.00400 | 0.00401 | | ug/L | | 100 | 50 - 150 |
| Perfluorotetradecanoic acid (PFTA) | 0.00400 | 0.00425 | | ug/L | | 106 | 50 - 150 |
| Perfluorobutanesulfonic acid (PFBS) | 0.00355 | 0.00340 | | ug/L | | 96 | 50 - 150 |
| Perfluorohexanesulfonic acid (PFHxS) | 0.00365 | 0.00376 | | ug/L | | 103 | 50 - 150 |
| Perfluorooctanesulfonic acid (PFOS) | 0.00372 | 0.00389 | | ug/L | | 105 | 50 - 150 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.00400 | 0.00385 | | ug/L | | 96 | 50 - 150 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | 0.00400 | 0.00376 | | ug/L | | 94 | 50 - 150 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | 0.00374 | 0.00367 | | ug/L | | 98 | 50 - 150 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 0.00378 | 0.00378 | | ug/L | | 100 | 50 - 150 |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | 0.00400 | 0.00382 | | ug/L | | 95 | 50 - 150 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 0.00378 | 0.00365 | | ug/L | | 96 | 50 - 150 |
| | | LLCS | LLCS | | | | |
| Surrogate | | %Recovery | Qualifier | | | | Limits |
| 13C2 PFHxA | | 100 | | | | | 70 - 130 |
| 13C2 PFDA | | 100 | | | | | 70 - 130 |
| d5-NEtFOSAA | | 104 | | | | | 70 - 130 |
| 13C3 HFPO-DA | | 97 | | | | | 70 - 130 |

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-28344/56
Matrix: Water
Analysis Batch: 28344

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|--------|------|---|----------|----------------|---------|
| Aluminum | ND | | 0.020 | 0.017 | mg/L | | | 06/14/25 11:54 | 1 |
| Barium | ND | | 0.0030 | 0.0018 | mg/L | | | 06/14/25 11:54 | 1 |
| Beryllium | ND | | 0.0020 | 0.0011 | mg/L | | | 06/14/25 11:54 | 1 |
| Boron | ND | | 0.040 | 0.0053 | mg/L | | | 06/14/25 11:54 | 1 |
| Cadmium | ND | | 0.0020 | 0.0017 | mg/L | | | 06/14/25 11:54 | 1 |
| Calcium | ND | | 1.0 | 0.42 | mg/L | | | 06/14/25 11:54 | 1 |
| Chromium | ND | | 0.0060 | 0.0030 | mg/L | | | 06/14/25 11:54 | 1 |
| Cobalt | ND | | 0.0060 | 0.0033 | mg/L | | | 06/14/25 11:54 | 1 |
| Iron | ND | | 0.020 | 0.0093 | mg/L | | | 06/14/25 11:54 | 1 |
| Magnesium | ND | | 1.0 | 0.064 | mg/L | | | 06/14/25 11:54 | 1 |
| Manganese | ND | | 0.0020 | 0.0012 | mg/L | | | 06/14/25 11:54 | 1 |
| Molybdenum | ND | | 0.0080 | 0.0063 | mg/L | | | 06/14/25 11:54 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 885-28344/56
Matrix: Water
Analysis Batch: 28344

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|--------|------|---|----------|----------------|---------|
| Nickel | ND | | 0.010 | 0.0040 | mg/L | | | 06/14/25 11:54 | 1 |
| Potassium | ND | | 1.0 | 0.45 | mg/L | | | 06/14/25 11:54 | 1 |
| Sodium | ND | | 1.0 | 0.25 | mg/L | | | 06/14/25 11:54 | 1 |
| Zinc | ND | | 0.010 | 0.0075 | mg/L | | | 06/14/25 11:54 | 1 |
| Silver | ND | | 0.0050 | 0.0015 | mg/L | | | 06/14/25 11:54 | 1 |

Lab Sample ID: LCS 885-28344/57
Matrix: Water
Analysis Batch: 28344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Aluminum | 0.500 | 0.550 | | mg/L | | 110 | 85 - 115 |
| Barium | 0.500 | 0.483 | | mg/L | | 97 | 85 - 115 |
| Beryllium | 0.500 | 0.500 | | mg/L | | 100 | 85 - 115 |
| Boron | 0.500 | 0.504 | | mg/L | | 101 | 85 - 115 |
| Cadmium | 0.500 | 0.493 | | mg/L | | 99 | 85 - 115 |
| Calcium | 50.0 | 48.4 | | mg/L | | 97 | 85 - 115 |
| Chromium | 0.500 | 0.489 | | mg/L | | 98 | 85 - 115 |
| Cobalt | 0.500 | 0.490 | | mg/L | | 98 | 85 - 115 |
| Iron | 0.500 | 0.499 | | mg/L | | 100 | 85 - 115 |
| Magnesium | 50.0 | 48.5 | | mg/L | | 97 | 85 - 115 |
| Manganese | 0.500 | 0.484 | | mg/L | | 97 | 85 - 115 |
| Molybdenum | 0.500 | 0.507 | | mg/L | | 101 | 85 - 115 |
| Nickel | 0.500 | 0.483 | | mg/L | | 97 | 85 - 115 |
| Potassium | 50.0 | 47.9 | | mg/L | | 96 | 85 - 115 |
| Sodium | 50.0 | 48.3 | | mg/L | | 97 | 85 - 115 |
| Zinc | 0.500 | 0.490 | | mg/L | | 98 | 85 - 115 |
| Silver | 0.100 | 0.0938 | | mg/L | | 94 | 85 - 115 |

Lab Sample ID: MRL 885-28344/13
Matrix: Water
Analysis Batch: 28344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Aluminum | 0.0100 | ND | | mg/L | | 101 | 50 - 150 |
| Barium | 0.00200 | 0.00196 | J | mg/L | | 98 | 50 - 150 |
| Beryllium | 0.00200 | 0.00172 | J | mg/L | | 86 | 50 - 150 |
| Boron | 0.0400 | 0.0386 | J | mg/L | | 96 | 50 - 150 |
| Cadmium | 0.00200 | 0.00205 | | mg/L | | 103 | 50 - 150 |
| Calcium | 0.500 | 0.483 | J | mg/L | | 97 | 50 - 150 |
| Chromium | 0.00600 | 0.00597 | J | mg/L | | 99 | 50 - 150 |
| Cobalt | 0.00600 | 0.00666 | | mg/L | | 111 | 50 - 150 |
| Iron | 0.0200 | 0.0179 | J | mg/L | | 90 | 50 - 150 |
| Magnesium | 0.500 | 0.500 | J | mg/L | | 100 | 50 - 150 |
| Manganese | 0.00200 | 0.00209 | | mg/L | | 104 | 50 - 150 |
| Molybdenum | 0.00800 | 0.00768 | J | mg/L | | 96 | 50 - 150 |
| Nickel | 0.00500 | 0.00509 | J | mg/L | | 102 | 50 - 150 |
| Potassium | 0.500 | 0.502 | J | mg/L | | 100 | 50 - 150 |
| Sodium | 0.500 | 0.516 | J | mg/L | | 103 | 50 - 150 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MRL 885-28344/13
Matrix: Water
Analysis Batch: 28344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Zinc | 0.0100 | 0.00958 | J | mg/L | | 96 | 50 - 150 |
| Silver | 0.00500 | 0.00504 | | mg/L | | 101 | 50 - 150 |

Lab Sample ID: 885-26493-1 MS
Matrix: Water
Analysis Batch: 28344

Client Sample ID: WDW-1-MW-1 20250610
Prep Type: Dissolved

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Barium | 0.087 | | 0.500 | 0.556 | | mg/L | | 94 | 70 - 130 |
| Beryllium | ND | | 0.500 | 0.484 | | mg/L | | 97 | 70 - 130 |
| Cadmium | ND | | 0.500 | 0.530 | | mg/L | | 106 | 70 - 130 |
| Chromium | ND | | 0.500 | 0.463 | | mg/L | | 93 | 70 - 130 |
| Cobalt | ND | | 0.500 | 0.461 | | mg/L | | 92 | 70 - 130 |
| Iron | ND | | 0.500 | 0.522 | | mg/L | | 104 | 70 - 130 |
| Manganese | ND | | 0.500 | 0.465 | | mg/L | | 93 | 70 - 130 |
| Molybdenum | 0.080 | | 0.500 | 0.543 | | mg/L | | 93 | 70 - 130 |
| Nickel | ND | | 0.500 | 0.452 | | mg/L | | 90 | 70 - 130 |
| Potassium | 28 | | 50.0 | 81.0 | | mg/L | | 105 | 70 - 130 |
| Zinc | ND | | 0.500 | 0.470 | | mg/L | | 94 | 70 - 130 |
| Silver | 0.011 | | 0.100 | 0.0969 | | mg/L | | 86 | 70 - 130 |

Lab Sample ID: 885-26493-1 MSD
Matrix: Water
Analysis Batch: 28344

Client Sample ID: WDW-1-MW-1 20250610
Prep Type: Dissolved

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Barium | 0.087 | | 0.500 | 0.571 | | mg/L | | 97 | 70 - 130 | 3 | 20 |
| Beryllium | ND | | 0.500 | 0.504 | | mg/L | | 101 | 70 - 130 | 4 | 20 |
| Cadmium | ND | | 0.500 | 0.548 | | mg/L | | 110 | 70 - 130 | 3 | 20 |
| Chromium | ND | | 0.500 | 0.484 | | mg/L | | 97 | 70 - 130 | 4 | 20 |
| Cobalt | ND | | 0.500 | 0.476 | | mg/L | | 95 | 70 - 130 | 3 | 20 |
| Iron | ND | | 0.500 | 0.527 | | mg/L | | 105 | 70 - 130 | 1 | 20 |
| Manganese | ND | | 0.500 | 0.478 | | mg/L | | 96 | 70 - 130 | 3 | 20 |
| Molybdenum | 0.080 | | 0.500 | 0.556 | | mg/L | | 95 | 70 - 130 | 2 | 20 |
| Nickel | ND | | 0.500 | 0.461 | | mg/L | | 92 | 70 - 130 | 2 | 20 |
| Potassium | 28 | | 50.0 | 80.9 | | mg/L | | 105 | 70 - 130 | 0 | 20 |
| Zinc | ND | | 0.500 | 0.486 | | mg/L | | 97 | 70 - 130 | 3 | 20 |
| Silver | 0.011 | | 0.100 | 0.0993 | | mg/L | | 88 | 70 - 130 | 2 | 20 |

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 885-28899/15
Matrix: Water
Analysis Batch: 28899

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|---------|---------|------|---|----------|----------------|---------|
| Antimony | ND | | 0.0010 | 0.00028 | mg/L | | | 06/23/25 12:38 | 1 |
| Arsenic | ND | | 0.00050 | 0.00041 | mg/L | | | 06/23/25 12:38 | 1 |
| Copper | ND | | 0.00050 | 0.00030 | mg/L | | | 06/23/25 12:38 | 1 |
| Lead | ND | | 0.00050 | 0.00034 | mg/L | | | 06/23/25 12:38 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 885-28899/15
Matrix: Water
Analysis Batch: 28899

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|---------|----------|------|---|----------|----------------|---------|
| Selenium | ND | | 0.0010 | 0.00092 | mg/L | | | 06/23/25 12:38 | 1 |
| Cadmium | ND | | 0.00050 | 0.00018 | mg/L | | | 06/23/25 12:38 | 1 |
| Thallium | ND | | 0.00025 | 0.000036 | mg/L | | | 06/23/25 12:38 | 1 |
| Uranium | ND | | 0.00050 | 0.00019 | mg/L | | | 06/23/25 12:38 | 1 |

Lab Sample ID: LCS 885-28899/16
Matrix: Water
Analysis Batch: 28899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.0250 | 0.0233 | | mg/L | | 93 | 85 - 115 |
| Arsenic | 0.0250 | 0.0240 | | mg/L | | 96 | 85 - 115 |
| Copper | 0.0250 | 0.0233 | | mg/L | | 93 | 85 - 115 |
| Lead | 0.0125 | 0.0117 | | mg/L | | 94 | 85 - 115 |
| Selenium | 0.0250 | 0.0237 | | mg/L | | 95 | 85 - 115 |
| Cadmium | 0.0125 | 0.0116 | | mg/L | | 93 | 85 - 115 |
| Thallium | 0.0125 | 0.0118 | | mg/L | | 95 | 85 - 115 |
| Uranium | 0.0125 | 0.0119 | | mg/L | | 95 | 85 - 115 |

Lab Sample ID: MRL 885-28899/13
Matrix: Water
Analysis Batch: 28899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.00100 | 0.00109 | | mg/L | | 109 | 50 - 150 |
| Lead | 0.000500 | 0.000481 | J | mg/L | | 96 | 50 - 150 |
| Selenium | 0.00100 | 0.00113 | | mg/L | | 113 | 50 - 150 |
| Cadmium | 0.000500 | 0.000408 | J | mg/L | | 82 | 50 - 150 |
| Uranium | 0.000500 | 0.000485 | J | mg/L | | 97 | 50 - 150 |

Lab Sample ID: MRL 885-28899/14
Matrix: Water
Analysis Batch: 28899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Arsenic | 0.000500 | 0.000393 | J | mg/L | | 79 | 50 - 150 |
| Copper | 0.000500 | 0.000345 | J | mg/L | | 69 | 50 - 150 |
| Thallium | 0.000250 | 0.000239 | J | mg/L | | 96 | 50 - 150 |

Lab Sample ID: MRL 885-28945/19
Matrix: Water
Analysis Batch: 28945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.00100 | 0.00120 | | mg/L | | 120 | 50 - 150 |
| Lead | 0.000500 | 0.000484 | J | mg/L | | 97 | 50 - 150 |
| Selenium | 0.00100 | 0.00113 | | mg/L | | 113 | 50 - 150 |
| Cadmium | 0.000500 | 0.000515 | | mg/L | | 103 | 50 - 150 |
| Uranium | 0.000500 | 0.000502 | | mg/L | | 100 | 50 - 150 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MRL 885-28945/20
Matrix: Water
Analysis Batch: 28945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Arsenic | 0.000500 | 0.000548 | | mg/L | | 110 | 50 - 150 |
| Copper | 0.000500 | 0.000546 | | mg/L | | 109 | 50 - 150 |
| Thallium | 0.000250 | 0.000248 | J | mg/L | | 99 | 50 - 150 |

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 885-28129/12-A
Matrix: Water
Analysis Batch: 28184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28129

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.00020 | 0.000080 | mg/L | | 06/12/25 08:59 | 06/12/25 12:12 | 1 |

Lab Sample ID: LCS 885-28129/14-A
Matrix: Water
Analysis Batch: 28184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28129

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00500 | 0.00496 | | mg/L | | 99 | 85 - 115 |

Lab Sample ID: LLCS 885-28129/13-A
Matrix: Water
Analysis Batch: 28184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28129

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|-------------|----------------|------|---|------|-------------|
| Mercury | 0.000150 | 0.0000889 | J | mg/L | | 59 | 50 - 150 |

Lab Sample ID: MRL 885-28129/9-A
Matrix: Water
Analysis Batch: 28184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28129

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.000150 | 0.000141 | J | mg/L | | 94 | 50 - 150 |

Lab Sample ID: 885-26493-1 MS
Matrix: Water
Analysis Batch: 28184

Client Sample ID: WDW-1-MW-1 20250610
Prep Type: Total/NA
Prep Batch: 28129

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | ND | | 0.00500 | 0.00498 | | mg/L | | 100 | 75 - 125 |

Lab Sample ID: 885-26493-1 MSD
Matrix: Water
Analysis Batch: 28184

Client Sample ID: WDW-1-MW-1 20250610
Prep Type: Total/NA
Prep Batch: 28129

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Mercury | ND | | 0.00500 | 0.00498 | | mg/L | | 100 | 75 - 125 | 0 | 20 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-28458/1
Matrix: Water
Analysis Batch: 28458

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | ND | | 50 | 25 | mg/L | | | 06/17/25 11:26 | 1 |

Lab Sample ID: LCS 885-28458/2
Matrix: Water
Analysis Batch: 28458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 1000 | 984 | | mg/L | | 98 | 80 - 120 |

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 400-715111/24
Matrix: Water
Analysis Batch: 715111

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|--------|--------|------|---|----------|----------------|---------|
| Phenols, Total | ND | | 0.0050 | 0.0020 | mg/L | | | 07/03/25 12:16 | 1 |

Lab Sample ID: LCS 400-715111/25
Matrix: Water
Analysis Batch: 715111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Phenols, Total | 0.100 | 0.102 | | mg/L | | 102 | 90 - 110 |

Lab Sample ID: MRL 400-715111/19
Matrix: Water
Analysis Batch: 715111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Phenols, Total | 0.00500 | 0.00436 | J | mg/L | | 87 | 50 - 150 |

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 885-28234/25
Matrix: Water
Analysis Batch: 28234

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 | ND | | 20 | 20 | mg/L | | | 06/12/25 18:55 | 1 |
| Bicarbonate Alkalinity as CaCO3 | ND | | 20 | 20 | mg/L | | | 06/12/25 18:55 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 2.0 | 2.0 | mg/L | | | 06/12/25 18:55 | 1 |

Lab Sample ID: LCS 885-28234/26
Matrix: Water
Analysis Batch: 28234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity as CaCO3 | 84.8 | 80.0 | | mg/L | | 94 | 90 - 110 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MRL 885-28234/1
 Matrix: Water
 Analysis Batch: 28234

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity as CaCO3 | 21.2 | 23.7 | | mg/L | | 112 | 50 - 150 |

Lab Sample ID: 885-26493-1 DU
 Matrix: Water
 Analysis Batch: 28234

Client Sample ID: WDW-1-MW-1 20250610
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 | 41 | | 40.0 | | mg/L | | 2 | 20 |
| Bicarbonate Alkalinity as CaCO3 | ND | | ND | | mg/L | | NC | |
| Carbonate Alkalinity as CaCO3 | 27 | | 39.5 | | mg/L | | 39 | |

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 885-28235/4
 Matrix: Water
 Analysis Batch: 28235

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|----------|---|------|-------------|
| Specific Conductance | 99.7 | 103 | | umhos/cm | | 103 | 85 - 115 |

Lab Sample ID: MRL 885-28235/3
 Matrix: Water
 Analysis Batch: 28235

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|----------|---|------|-------------|
| Specific Conductance | 9.52 | 9.40 | J | umhos/cm | | 99 | 50 - 150 |

Lab Sample ID: 885-26493-1 DU
 Matrix: Water
 Analysis Batch: 28235

Client Sample ID: WDW-1-MW-1 20250610
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|----------|---|-----|-----------|
| Specific Conductance | 5800 | | 5750 | | umhos/cm | | 0.8 | 20 |

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 570-583821/2-A
 Matrix: Water
 Analysis Batch: 583967

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 583821

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | ND | | 0.025 | 0.0040 | mg/L | | 06/13/25 13:12 | 06/13/25 15:28 | 1 |

Lab Sample ID: LCS 570-583821/3-A
 Matrix: Water
 Analysis Batch: 583967

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 583821

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Cyanide, Total | 0.100 | 0.0987 | | mg/L | | 99 | 80 - 120 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: SM 4500 CN E - Cyanide, Total (Continued)

Lab Sample ID: LCSD 570-583821/4-A
Matrix: Water
Analysis Batch: 583967

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 583821

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | 0.100 | 0.100 | | mg/L | | 100 | 80 - 120 | 2 | 20 |

Lab Sample ID: MRL 570-583821/1-A
Matrix: Water
Analysis Batch: 583967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583821

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | 0.0250 | 0.0221 | J | mg/L | | 88 | 50 - 150 | | |

Method: SM 4500 H+ B - pH

Lab Sample ID: 885-26493-1 DU
Matrix: Water
Analysis Batch: 28236

Client Sample ID: WDW-1-MW-1 20250610
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH | 9.5 | HF | 9.8 | | SU | | 4 | 20 |

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-722503/1-A
Matrix: Water
Analysis Batch: 726360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 722503

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.02295 | U | 0.128 | 0.128 | 1.00 | 0.293 | pCi/L | 06/16/25 08:21 | 07/09/25 16:37 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.6 | | 30 - 110 | | | | | 06/16/25 08:21 | 07/09/25 16:37 | 1 |

Lab Sample ID: LCS 160-722503/2-A
Matrix: Water
Analysis Batch: 726360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 722503

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|---------------|----------|-----------------------|------|-------|-------|------|-------------|
| Radium-226 | 9.58 | 8.720 | | 1.22 | 1.00 | 0.322 | pCi/L | 91 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 83.8 | | 30 - 110 | | | | | | |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-722504/1-A
Matrix: Water
Analysis Batch: 726364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 722504

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | -0.05646 | U | 0.277 | 0.277 | 1.00 | 0.539 | pCi/L | 06/16/25 08:26 | 07/09/25 12:08 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 88.6 | | 30 - 110 | | | | | 06/16/25 08:26 | 07/09/25 12:08 | 1 |
| Y Carrier | 84.1 | | 30 - 110 | | 06/16/25 08:26 | 07/09/25 12:08 | 1 | | | |

Lab Sample ID: LCS 160-722504/2-A
Matrix: Water
Analysis Batch: 726364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 722504

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|---------------|----------|-----------------|----------------|----------------|---------|----------------|----------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-228 | 9.27 | 10.78 | | 1.46 | 1.00 | 0.512 | pCi/L | 116 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | |
| Ba Carrier | 83.8 | | 30 - 110 | | | | | 06/16/25 08:26 | 07/09/25 12:08 |
| Y Carrier | 81.9 | | 30 - 110 | | 06/16/25 08:26 | 07/09/25 12:08 | 1 | | |

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

GC/MS VOA

Analysis Batch: 28780

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8260B | |
| 885-26493-2 | Trip Blank | Total/NA | Water | 8260B | |
| MB 885-28780/5 | Method Blank | Total/NA | Water | 8260B | |
| LCS 885-28780/4 | Lab Control Sample | Total/NA | Water | 8260B | |

Analysis Batch: 588153

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8260B | |
| MB 570-588153/5 | Method Blank | Total/NA | Water | 8260B | |
| LCS 570-588153/1002 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 570-588153/3 | Lab Control Sample Dup | Total/NA | Water | 8260B | |

GC/MS Semi VOA

Prep Batch: 28181

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 3511 | |
| MB 885-28181/1-A | Method Blank | Total/NA | Water | 3511 | |
| LCS 885-28181/2-A | Lab Control Sample | Total/NA | Water | 3511 | |

Analysis Batch: 28246

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8270E | 28181 |
| MB 885-28181/1-A | Method Blank | Total/NA | Water | 8270E | 28181 |
| LCS 885-28181/2-A | Lab Control Sample | Total/NA | Water | 8270E | 28181 |

Prep Batch: 712940

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 3510C | |
| MB 400-712940/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 400-712940/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 400-712940/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

Prep Batch: 713031

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 3510C | |
| MB 400-713031/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 400-713031/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 400-713031/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

Analysis Batch: 713401

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8270E | 713031 |
| MB 400-713031/1-A | Method Blank | Total/NA | Water | 8270E | 713031 |
| LCS 400-713031/2-A | Lab Control Sample | Total/NA | Water | 8270E | 713031 |
| LCSD 400-713031/3-A | Lab Control Sample Dup | Total/NA | Water | 8270E | 713031 |

Prep Batch: 713551

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 3510C | |
| MB 400-713551/1-A - RERA | Method Blank | Total/NA | Water | 3510C | |

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QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

GC/MS Semi VOA (Continued)

Prep Batch: 713551 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|------------------------|-----------|--------|--------|------------|
| LCS 400-713551/2-A - RERA | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 400-713551/3-A - REF | Lab Control Sample Dup | Total/NA | Water | 3510C | |

Analysis Batch: 713722

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8270E | 712940 |
| MB 400-712940/1-A | Method Blank | Total/NA | Water | 8270E | 712940 |
| LCS 400-712940/2-A | Lab Control Sample | Total/NA | Water | 8270E | 712940 |
| LCSD 400-712940/3-A | Lab Control Sample Dup | Total/NA | Water | 8270E | 712940 |

Analysis Batch: 713758

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8270E | 713551 |
| MB 400-713551/1-A - RERA | Method Blank | Total/NA | Water | 8270E | 713551 |
| LCS 400-713551/2-A - RERA | Lab Control Sample | Total/NA | Water | 8270E | 713551 |
| LCSD 400-713551/3-A - REF | Lab Control Sample Dup | Total/NA | Water | 8270E | 713551 |

GC Semi VOA

Prep Batch: 28244

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8011 | |
| 885-26493-2 | Trip Blank | Total/NA | Water | 8011 | |
| MB 885-28244/3-A | Method Blank | Total/NA | Water | 8011 | |
| LCS 885-28244/4-A | Lab Control Sample | Total/NA | Water | 8011 | |
| LCSD 885-28244/5-A | Lab Control Sample Dup | Total/NA | Water | 8011 | |
| MRL 885-28244/1-A | Lab Control Sample | Total/NA | Water | 8011 | |

Analysis Batch: 28260

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8011 | 28244 |
| 885-26493-2 | Trip Blank | Total/NA | Water | 8011 | 28244 |
| MB 885-28244/3-A | Method Blank | Total/NA | Water | 8011 | 28244 |
| LCS 885-28244/4-A | Lab Control Sample | Total/NA | Water | 8011 | 28244 |
| LCSD 885-28244/5-A | Lab Control Sample Dup | Total/NA | Water | 8011 | 28244 |
| MRL 885-28244/1-A | Lab Control Sample | Total/NA | Water | 8011 | 28244 |

Prep Batch: 583827

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8151A | |
| MB 570-583827/1-A | Method Blank | Total/NA | Water | 8151A | |
| LCS 570-583827/2-A | Lab Control Sample | Total/NA | Water | 8151A | |
| LCSD 570-583827/3-A | Lab Control Sample Dup | Total/NA | Water | 8151A | |

Analysis Batch: 584465

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8151A | 583827 |
| MB 570-583827/1-A | Method Blank | Total/NA | Water | 8151A | 583827 |
| LCS 570-583827/2-A | Lab Control Sample | Total/NA | Water | 8151A | 583827 |
| LCSD 570-583827/3-A | Lab Control Sample Dup | Total/NA | Water | 8151A | 583827 |

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QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

GC Semi VOA

Prep Batch: 584606

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 3511 | |
| MB 570-584606/1-A | Method Blank | Total/NA | Water | 3511 | |
| LCS 570-584606/2-A | Lab Control Sample | Total/NA | Water | 3511 | |
| LCS 570-584606/6-A - RA | Lab Control Sample | Total/NA | Water | 3511 | |
| LCSD 570-584606/3-A | Lab Control Sample Dup | Total/NA | Water | 3511 | |
| LCSD 570-584606/7-A - RA | Lab Control Sample Dup | Total/NA | Water | 3511 | |
| 885-26493-1 MS | WDW-1-MW-1 20250610 | Total/NA | Water | 3511 | |
| 885-26493-1 MS | WDW-1-MW-1 20250610 | Total/NA | Water | 3511 | |
| 885-26493-1 MSD | WDW-1-MW-1 20250610 | Total/NA | Water | 3511 | |
| 885-26493-1 MSD | WDW-1-MW-1 20250610 | Total/NA | Water | 3511 | |

Analysis Batch: 585270

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8082 | 584606 |
| MB 570-584606/1-A | Method Blank | Total/NA | Water | 8082 | 584606 |
| LCS 570-584606/6-A - RA | Lab Control Sample | Total/NA | Water | 8082 | 584606 |
| LCSD 570-584606/7-A - RA | Lab Control Sample Dup | Total/NA | Water | 8082 | 584606 |
| 885-26493-1 MS | WDW-1-MW-1 20250610 | Total/NA | Water | 8082 | 584606 |
| 885-26493-1 MSD | WDW-1-MW-1 20250610 | Total/NA | Water | 8082 | 584606 |

Analysis Batch: 588912

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8081B | 584606 |
| MB 570-584606/1-A | Method Blank | Total/NA | Water | 8081B | 584606 |

Analysis Batch: 595047

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCS 570-584606/2-A | Lab Control Sample | Total/NA | Water | 8081B | 584606 |
| LCSD 570-584606/3-A | Lab Control Sample Dup | Total/NA | Water | 8081B | 584606 |
| 885-26493-1 MS | WDW-1-MW-1 20250610 | Total/NA | Water | 8081B | 584606 |
| 885-26493-1 MSD | WDW-1-MW-1 20250610 | Total/NA | Water | 8081B | 584606 |

HPLC/IC

Analysis Batch: 28068

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 300.0 | |
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 300.0 | |
| MB 885-28068/4 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 885-28068/5 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MRL 885-28068/3 | Lab Control Sample | Total/NA | Water | 300.0 | |

Analysis Batch: 28069

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 300.0 | |
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 300.0 | |
| MB 885-28069/4 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 885-28069/5 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MRL 885-28069/3 | Lab Control Sample | Total/NA | Water | 300.0 | |

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QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

HPLC/IC

Prep Batch: 584032

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8330 | |
| MB 570-584032/1-A | Method Blank | Total/NA | Water | 8330 | |
| LCS 570-584032/2-A | Lab Control Sample | Total/NA | Water | 8330 | |
| LCSD 570-584032/3-A | Lab Control Sample Dup | Total/NA | Water | 8330 | |

Analysis Batch: 584846

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 8330 | 584032 |
| MB 570-584032/1-A | Method Blank | Total/NA | Water | 8330 | 584032 |
| LCS 570-584032/2-A | Lab Control Sample | Total/NA | Water | 8330 | 584032 |
| LCSD 570-584032/3-A | Lab Control Sample Dup | Total/NA | Water | 8330 | 584032 |

LCMS

Analysis Batch: 584622

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 - DL | WDW-1-MW-1 20250610 | Total/NA | Water | 331.0 | |
| MB 570-584622/8 | Method Blank | Total/NA | Water | 331.0 | |
| LCS 570-584622/9 | Lab Control Sample | Total/NA | Water | 331.0 | |
| LCSD 570-584622/10 | Lab Control Sample Dup | Total/NA | Water | 331.0 | |

Prep Batch: 858853

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 537.1 | |
| MB 320-858853/1-A | Method Blank | Total/NA | Water | 537.1 | |
| LCS 320-858853/3-A | Lab Control Sample | Total/NA | Water | 537.1 | |
| LCSD 320-858853/4-A | Lab Control Sample Dup | Total/NA | Water | 537.1 | |
| LLCS 320-858853/2-A | Lab Control Sample | Total/NA | Water | 537.1 | |

Analysis Batch: 859053

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| MB 320-858853/1-A | Method Blank | Total/NA | Water | 537.1 | 858853 |
| LCS 320-858853/3-A | Lab Control Sample | Total/NA | Water | 537.1 | 858853 |
| LCSD 320-858853/4-A | Lab Control Sample Dup | Total/NA | Water | 537.1 | 858853 |
| LLCS 320-858853/2-A | Lab Control Sample | Total/NA | Water | 537.1 | 858853 |

Analysis Batch: 859057

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 537.1 | 858853 |

Metals

Prep Batch: 28129

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 245.1 | |
| MB 885-28129/12-A | Method Blank | Total/NA | Water | 245.1 | |
| LCS 885-28129/14-A | Lab Control Sample | Total/NA | Water | 245.1 | |
| LLCS 885-28129/13-A | Lab Control Sample | Total/NA | Water | 245.1 | |
| MRL 885-28129/9-A | Lab Control Sample | Total/NA | Water | 245.1 | |
| 885-26493-1 MS | WDW-1-MW-1 20250610 | Total/NA | Water | 245.1 | |
| 885-26493-1 MSD | WDW-1-MW-1 20250610 | Total/NA | Water | 245.1 | |

Eurofins Albuquerque

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Metals

Analysis Batch: 28184

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 245.1 | 28129 |
| MB 885-28129/12-A | Method Blank | Total/NA | Water | 245.1 | 28129 |
| LCS 885-28129/14-A | Lab Control Sample | Total/NA | Water | 245.1 | 28129 |
| LLCS 885-28129/13-A | Lab Control Sample | Total/NA | Water | 245.1 | 28129 |
| MRL 885-28129/9-A | Lab Control Sample | Total/NA | Water | 245.1 | 28129 |
| 885-26493-1 MS | WDW-1-MW-1 20250610 | Total/NA | Water | 245.1 | 28129 |
| 885-26493-1 MSD | WDW-1-MW-1 20250610 | Total/NA | Water | 245.1 | 28129 |

Analysis Batch: 28344

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|---------------------|-----------|--------|---------------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Dissolved | Water | 200.7 Rev 4.4 | |
| 885-26493-1 | WDW-1-MW-1 20250610 | Dissolved | Water | 200.7 Rev 4.4 | |
| MB 885-28344/56 | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 885-28344/57 | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |
| MRL 885-28344/13 | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |
| 885-26493-1 MS | WDW-1-MW-1 20250610 | Dissolved | Water | 200.7 Rev 4.4 | |
| 885-26493-1 MSD | WDW-1-MW-1 20250610 | Dissolved | Water | 200.7 Rev 4.4 | |

Analysis Batch: 28899

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| MB 885-28899/15 | Method Blank | Total/NA | Water | 200.8 | |
| LCS 885-28899/16 | Lab Control Sample | Total/NA | Water | 200.8 | |
| MRL 885-28899/13 | Lab Control Sample | Total/NA | Water | 200.8 | |
| MRL 885-28899/14 | Lab Control Sample | Total/NA | Water | 200.8 | |

Analysis Batch: 28945

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Dissolved | Water | 200.8 | |
| MRL 885-28945/19 | Lab Control Sample | Total/NA | Water | 200.8 | |
| MRL 885-28945/20 | Lab Control Sample | Total/NA | Water | 200.8 | |

General Chemistry

Analysis Batch: 28234

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|---------------------|-----------|--------|----------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | SM 2320B | |
| MB 885-28234/25 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 885-28234/26 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| MRL 885-28234/1 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| 885-26493-1 DU | WDW-1-MW-1 20250610 | Total/NA | Water | SM 2320B | |

Analysis Batch: 28235

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|---------------------|-----------|--------|----------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | SM 2510B | |
| LCS 885-28235/4 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| MRL 885-28235/3 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| 885-26493-1 DU | WDW-1-MW-1 20250610 | Total/NA | Water | SM 2510B | |

Analysis Batch: 28236

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|---------------------|-----------|--------|--------------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | SM 4500 H+ B | |

Eurofins Albuquerque

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

General Chemistry (Continued)

Analysis Batch: 28236 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|---------------------|-----------|--------|--------------|------------|
| 885-26493-1 DU | WDW-1-MW-1 20250610 | Total/NA | Water | SM 4500 H+ B | |

Analysis Batch: 28458

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 2540C | |
| MB 885-28458/1 | Method Blank | Total/NA | Water | 2540C | |
| LCS 885-28458/2 | Lab Control Sample | Total/NA | Water | 2540C | |

Prep Batch: 583821

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | SM 4500 CN C | |
| MB 570-583821/2-A | Method Blank | Total/NA | Water | SM 4500 CN C | |
| LCS 570-583821/3-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |
| LCSD 570-583821/4-A | Lab Control Sample Dup | Total/NA | Water | SM 4500 CN C | |
| MRL 570-583821/1-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |

Analysis Batch: 583967

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | SM 4500 CN E | 583821 |
| MB 570-583821/2-A | Method Blank | Total/NA | Water | SM 4500 CN E | 583821 |
| LCS 570-583821/3-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 583821 |
| LCSD 570-583821/4-A | Lab Control Sample Dup | Total/NA | Water | SM 4500 CN E | 583821 |
| MRL 570-583821/1-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 583821 |

Analysis Batch: 715111

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------|-----------|--------|--------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | 420.4 | |
| MB 400-715111/24 | Method Blank | Total/NA | Water | 420.4 | |
| LCS 400-715111/25 | Lab Control Sample | Total/NA | Water | 420.4 | |
| MRL 400-715111/19 | Lab Control Sample | Total/NA | Water | 420.4 | |

Rad

Prep Batch: 722503

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------|-----------|--------|------------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | PrecSep-21 | |
| MB 160-722503/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-722503/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 722504

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------|-----------|--------|-----------|------------|
| 885-26493-1 | WDW-1-MW-1 20250610 | Total/NA | Water | PrecSep_0 | |
| MB 160-722504/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-722504/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Eurofins Albuquerque

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610

Lab Sample ID: 885-26493-1

Date Collected: 06/10/25 11:32

Matrix: Water

Date Received: 06/11/25 08:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|---------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA | Analysis | 8260B | | 1 | 588153 | GC3Z | EET CAL 4 | 06/24/25 02:36 |
| Total/NA | Analysis | 8260B | | 1 | 28780 | JP | EET ALB | 06/20/25 21:22 |
| Total/NA | Prep | 3511 | | | 28181 | JM | EET ALB | 06/13/25 07:00 |
| Total/NA | Analysis | 8270E | | 1 | 28246 | JC | EET ALB | 06/13/25 17:10 |
| Total/NA | Prep | 3510C | | | 712940 | JPH | EET PEN | 06/16/25 07:00 |
| Total/NA | Analysis | 8270E | | 1 | 713722 | VC1 | EET PEN | 06/23/25 19:05 |
| Total/NA | Prep | 3510C | | | 713031 | BKL | EET PEN | 06/17/25 07:00 |
| Total/NA | Analysis | 8270E | | 1 | 713401 | S1B | EET PEN | 06/19/25 17:43 |
| Total/NA | Prep | 3510C | | | 713551 | BKL | EET PEN | 06/20/25 07:00 |
| Total/NA | Analysis | 8270E | | 1 | 713758 | S1B | EET PEN | 06/23/25 16:33 |
| Total/NA | Prep | 8011 | | | 28244 | KR | EET ALB | 06/13/25 09:38 |
| Total/NA | Analysis | 8011 | | 1 | 28260 | KR | EET ALB | 06/13/25 18:43 |
| Total/NA | Prep | 3511 | | | 584606 | UGM4 | EET CAL 4 | 06/16/25 10:14 |
| Total/NA | Analysis | 8081B | | 1 | 588912 | N5Y3 | EET CAL 4 | 06/25/25 00:28 |
| Total/NA | Prep | 3511 | | | 584606 | UGM4 | EET CAL 4 | 06/16/25 10:14 |
| Total/NA | Analysis | 8082 | | 1 | 585270 | P2HW | EET CAL 4 | 06/17/25 13:50 |
| Total/NA | Prep | 8151A | | | 583827 | DVE6 | EET CAL 4 | 06/13/25 13:20 |
| Total/NA | Analysis | 8151A | | 1 | 584465 | ZE2W | EET CAL 4 | 06/16/25 18:32 |
| Total/NA | Analysis | 300.0 | | 10 | 28068 | JT | EET ALB | 06/11/25 17:53 |
| Total/NA | Analysis | 300.0 | | 10 | 28069 | JT | EET ALB | 06/11/25 17:53 |
| Total/NA | Analysis | 300.0 | | 100 | 28068 | JT | EET ALB | 06/11/25 18:04 |
| Total/NA | Analysis | 300.0 | | 100 | 28069 | JT | EET ALB | 06/11/25 18:04 |
| Total/NA | Prep | 8330 | | | 584032 | UM1W | EET CAL 4 | 06/13/25 21:12 |
| Total/NA | Analysis | 8330 | | 1 | 584846 | U9XB | EET CAL 4 | 06/16/25 18:57 |
| Total/NA | Analysis | 331.0 | DL | 2 | 584622 | M5Z3 | EET CAL 4 | 06/16/25 13:24 |
| Total/NA | Prep | 537.1 | | | 858853 | GAT | EET SAC | 06/20/25 04:29 |
| Total/NA | Analysis | 537.1 | | 1 | 859057 | SS | EET SAC | 06/21/25 04:08 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | 28344 | VP | EET ALB | 06/14/25 12:26 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 10 | 28344 | VP | EET ALB | 06/14/25 12:33 |
| Dissolved | Analysis | 200.8 | | 5 | 28945 | BV | EET ALB | 06/24/25 15:34 |
| Total/NA | Prep | 245.1 | | | 28129 | JR | EET ALB | 06/12/25 08:59 |
| Total/NA | Analysis | 245.1 | | 1 | 28184 | JR | EET ALB | 06/12/25 12:26 |
| Total/NA | Analysis | 2540C | | 1 | 28458 | HR | EET ALB | 06/17/25 11:26 |
| Total/NA | Analysis | 420.4 | | 1 | 715111 | CAC | EET PEN | 07/03/25 12:39 |
| Total/NA | Analysis | SM 2320B | | 1 | 28234 | DL | EET ALB | 06/12/25 20:11 |
| Total/NA | Analysis | SM 2510B | | 1 | 28235 | DL | EET ALB | 06/12/25 20:11 |
| Total/NA | Prep | SM 4500 CN C | | | 583821 | ZVB7 | EET CAL 4 | 06/13/25 16:24 |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 583967 | ZVB7 | EET CAL 4 | 06/13/25 17:52 |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 28236 | DL | EET ALB | 06/12/25 20:11 |
| Total/NA | Prep | PrecSep-21 | | | 722503 | JTR | EET SL | 06/16/25 08:21 |
| Total/NA | Analysis | 903.0 | | 1 | 726365 | FLC | EET SL | 07/09/25 16:41 |

Eurofins Albuquerque

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Client Sample ID: WDW-1-MW-1 20250610
Date Collected: 06/10/25 11:32
Date Received: 06/11/25 08:32

Lab Sample ID: 885-26493-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep_0 | | | 722504 | JTR | EET SL | 06/16/25 08:26 |
| Total/NA | Analysis | 904.0 | | 1 | 726364 | FLC | EET SL | 07/09/25 12:10 |

Client Sample ID: Trip Blank
Date Collected: 06/10/25 00:00
Date Received: 06/11/25 08:32

Lab Sample ID: 885-26493-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260B | | 1 | 28780 | JP | EET ALB | 06/20/25 21:50 |
| Total/NA | Prep | 8011 | | | 28244 | KR | EET ALB | 06/13/25 09:38 |
| Total/NA | Analysis | 8011 | | 1 | 28260 | KR | EET ALB | 06/13/25 18:58 |

Laboratory References:

- EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975
- EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
- EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
- EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Laboratory: Eurofins Albuquerque

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Oregon | NELAP | NM100001 | 02-26-26 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------------------------|
| 8011 | 8011 | Water | 1,2-Dibromo-3-Chloropropane |
| 8011 | 8011 | Water | Ethylene Dibromide |
| 8270E | 3511 | Water | 1,2,4-Trichlorobenzene |
| 8270E | 3511 | Water | 1,2-Dichlorobenzene |
| 8270E | 3511 | Water | 1,3-Dichlorobenzene |
| 8270E | 3511 | Water | 1,4-Dichlorobenzene |
| 8270E | 3511 | Water | 1,4-Dioxane |
| 8270E | 3511 | Water | 1-Methylnaphthalene |
| 8270E | 3511 | Water | 2,2'-oxybis[1-chloropropane] |
| 8270E | 3511 | Water | 2,4,5-Trichlorophenol |
| 8270E | 3511 | Water | 2,4,6-Trichlorophenol |
| 8270E | 3511 | Water | 2,4-Dichlorophenol |
| 8270E | 3511 | Water | 2,4-Dimethylphenol |
| 8270E | 3511 | Water | 2,4-Dinitrophenol |
| 8270E | 3511 | Water | 2,4-Dinitrotoluene |
| 8270E | 3511 | Water | 2,6-Dinitrotoluene |
| 8270E | 3511 | Water | 2-Chloronaphthalene |
| 8270E | 3511 | Water | 2-Chlorophenol |
| 8270E | 3511 | Water | 2-Methylnaphthalene |
| 8270E | 3511 | Water | 2-Methylphenol |
| 8270E | 3511 | Water | 2-Nitroaniline |
| 8270E | 3511 | Water | 2-Nitrophenol |
| 8270E | 3511 | Water | 3 & 4 Methylphenol |
| 8270E | 3511 | Water | 3,3'-Dichlorobenzidine |
| 8270E | 3511 | Water | 3-Nitroaniline |
| 8270E | 3511 | Water | 4,6-Dinitro-2-methylphenol |
| 8270E | 3511 | Water | 4-Bromophenyl phenyl ether |
| 8270E | 3511 | Water | 4-Chloro-3-methylphenol |
| 8270E | 3511 | Water | 4-Chloroaniline |
| 8270E | 3511 | Water | 4-Chlorophenyl phenyl ether |
| 8270E | 3511 | Water | 4-Nitroaniline |
| 8270E | 3511 | Water | 4-Nitrophenol |
| 8270E | 3511 | Water | Acenaphthene |
| 8270E | 3511 | Water | Acenaphthylene |
| 8270E | 3511 | Water | Aniline |
| 8270E | 3511 | Water | Anthracene |
| 8270E | 3511 | Water | Azobenzene |
| 8270E | 3511 | Water | Benzo[a]anthracene |
| 8270E | 3511 | Water | Benzo[a]pyrene |
| 8270E | 3511 | Water | Benzo[b]fluoranthene |
| 8270E | 3511 | Water | Benzo[g,h,i]perylene |
| 8270E | 3511 | Water | Benzo[k]fluoranthene |
| 8270E | 3511 | Water | Benzoic acid |
| 8270E | 3511 | Water | Benzyl alcohol |
| 8270E | 3511 | Water | Bis(2-chloroethoxy)methane |

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-26493-1

Laboratory: Eurofins Albuquerque (Continued)

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

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|---------------------------------|
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8270E | 3511 | Water | Bis(2-chloroethyl)ether |
| 8270E | 3511 | Water | Bis(2-ethylhexyl) phthalate |
| 8270E | 3511 | Water | Butyl benzyl phthalate |
| 8270E | 3511 | Water | Carbazole |
| 8270E | 3511 | Water | Chrysene |
| 8270E | 3511 | Water | Dibenz(a,h)anthracene |
| 8270E | 3511 | Water | Dibenzofuran |
| 8270E | 3511 | Water | Diethyl phthalate |
| 8270E | 3511 | Water | Dimethyl phthalate |
| 8270E | 3511 | Water | Di-n-butyl phthalate |
| 8270E | 3511 | Water | Di-n-octyl phthalate |
| 8270E | 3511 | Water | Fluoranthene |
| 8270E | 3511 | Water | Fluorene |
| 8270E | 3511 | Water | Hexachlorobenzene |
| 8270E | 3511 | Water | Hexachlorobutadiene |
| 8270E | 3511 | Water | Hexachlorocyclopentadiene |
| 8270E | 3511 | Water | Hexachloroethane |
| 8270E | 3511 | Water | Indeno[1,2,3-cd]pyrene |
| 8270E | 3511 | Water | Isophorone |
| 8270E | 3511 | Water | Naphthalene |
| 8270E | 3511 | Water | Nitrobenzene |
| 8270E | 3511 | Water | N-Nitrosodimethylamine |
| 8270E | 3511 | Water | N-Nitrosodi-n-propylamine |
| 8270E | 3511 | Water | N-Nitrosodiphenylamine |
| 8270E | 3511 | Water | Pentachlorophenol |
| 8270E | 3511 | Water | Phenanthrene |
| 8270E | 3511 | Water | Phenol |
| 8270E | 3511 | Water | Pyrene |
| 8270E | 3511 | Water | Pyridine |
| SM 2320B | | Water | Bicarbonate Alkalinity as CaCO3 |
| SM 2320B | | Water | Carbonate Alkalinity as CaCO3 |

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------|---|-----------------------|-----------------|
| A2LA | Dept. of Defense ELAP | 7296.01 | 11-30-26 |
| A2LA | ISO/IEC 17025 | 7296.01 | 11-30-26 |
| Alaska (UST) | State | 25-005 | 03-02-26 |
| Arizona | State | AZ0830 | 11-16-25 |
| California | Los Angeles County Sanitation Districts | 9257304 | 07-31-26 |
| California | SCAQMD LAP | 17LA0919 | 11-30-25 |
| California | State | 3082 | 07-31-26 |
| Kansas | NELAP | E-10420 | 07-31-25 |
| Nevada | State | CA00111 | 07-31-25 |
| Oregon | NELAP | 4175 | 02-02-26 |

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Laboratory: Eurofins Calscience (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|------------|---------------------|-----------------------|-----------------|
| USDA | US Federal Programs | 525-23-159-97150 | 06-08-26 |
| Utah | NELAP | CA00111 | 02-28-26 |
| Washington | State | C916 | 10-11-25 |

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Alabama | State | 40150 | 06-30-26 |
| ANAB | ISO/IEC 17025 | L2471 | 02-22-26 |
| Arkansas DEQ | State | 88-00689 | 08-01-25 |
| Florida | NELAP | E81010 | 06-30-26 |
| Georgia | State | E81010(FL) | 06-30-26 |
| Illinois | NELAP | 200041 | 10-09-25 |
| Kansas | NELAP | E-10253 | 10-31-25 |
| Kentucky (UST) | State | 53 | 06-30-26 |
| Louisiana (All) | NELAP | 30976 | 06-30-26 |
| Louisiana (DW) | State | LA017 | 12-31-25 |
| North Carolina (WW/SW) | State | 314 | 12-31-25 |
| Oklahoma | NELAP | 9810 | 08-31-25 |
| Pennsylvania | NELAP | 68-00467 | 01-31-26 |
| South Carolina | State | 96026 | 06-30-26 |
| Tennessee | State | TN02907 | 06-30-26 |
| Texas | NELAP | T104704286 | 09-30-25 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-26 |
| USDA | US Federal Programs | FLGNV23001 | 01-08-26 |
| USDA | US Federal Programs | 525-23-9-22801 | 01-09-26 |
| Virginia | NELAP | 460166 | 06-14-26 |
| West Virginia DEP | State | 136 | 03-31-26 |

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------------|-----------------------|-----------------------|-----------------|
| Alaska (UST) | State | 17-020 | 02-20-27 |
| ANAB | Dept. of Defense ELAP | L2468 | 01-20-27 |
| ANAB | Dept. of Energy | L2468.01 | 01-20-27 |
| ANAB | ISO/IEC 17025 | L2468.03 | 01-20-27 |
| Arizona | State | AZ0708 | 08-11-25 |
| Arkansas DEQ | State | 88-0691 | 05-18-26 |
| California | State | 2897 | 01-31-26 |
| Colorado | State | CA00044 | 08-31-25 |
| Florida | NELAP | E87570 | 06-30-25 |
| Georgia | State | 4040 | 01-29-26 |
| Illinois | NELAP | 200060 | 03-31-26 |
| Kansas | NELAP | E-10375 | 10-31-25 |
| Louisiana | NELAP | 01944 | 06-30-25 |
| Louisiana (All) | NELAP | 01944 | 06-30-25 |
| Maine | State | CA00004 | 04-14-26 |
| Massachusetts | State | M-CA044 | 06-30-26 |
| Michigan | State | 9947 | 01-29-26 |

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Laboratory: Eurofins Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------|---------------------|-----------------------|-----------------|
| Minnesota | NELAP | 2749448 | 12-31-25 |
| Nevada | State | CA00044 | 07-31-25 |
| New Jersey | NELAP | CA005 | 06-30-25 |
| New York | NELAP | 11666 | 04-01-26 |
| Ohio | State | 41252 | 01-29-26 |
| Oregon | NELAP | 4040 | 07-06-25 |
| Texas | NELAP | T104704399-23-17 | 06-25-25 |
| US Fish & Wildlife | US Federal Programs | A22139 | 04-30-26 |
| USDA | US Federal Programs | P330-18-00239 | 02-28-26 |
| Utah | NELAP | CA000442023-16 | 02-28-26 |
| Virginia | NELAP | 460278 | 03-14-26 |
| Washington | State | C581 | 05-05-26 |
| West Virginia (DW) | State | 9930C | 02-01-26 |
| West Virginia DEP | State | 422 | 03-28-26 |
| Wisconsin | State | 998204680 | 08-31-25 |
| Wyoming | State Program | 8TMS-L | 01-28-19 * |

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-27 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-27 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-27 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-27 |
| Arizona | State | AZ0813 | 12-08-25 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-22 * |
| California | State | 2886 | 06-30-25 * |
| Connecticut | State | PH-0241 | 03-31-27 |
| Florida | NELAP | E87689 | 06-30-26 |
| HI - RadChem Recognition | State | n/a | 06-30-25 * |
| Illinois | NELAP | 200023 | 11-30-25 |
| Iowa | State | 373 | 12-01-26 |
| Kansas | NELAP | E-10236 | 10-31-25 |
| Kentucky (DW) | State | KY90125 | 12-31-25 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-25 |
| Louisiana (All) | NELAP | 106151 | 06-30-26 |
| Louisiana (DW) | State | LA011 | 12-31-25 |
| Maryland | State | 310 | 09-30-25 |
| Massachusetts | State | M-MO054 | 06-30-26 |
| MI - RadChem Recognition | State | 9005 | 06-30-25 * |
| Missouri | State | 780 | 06-30-25 * |
| Nevada | State | MO00054 | 07-31-25 |
| New Jersey | NELAP | MO002 | 06-30-26 |
| New Mexico | State | MO00054 | 06-30-25 * |
| New York | NELAP | 11616 | 03-31-26 |
| North Carolina (DW) | State | 29700 | 08-02-25 |
| North Dakota | State | R-207 | 06-30-25 * |
| Oklahoma | NELAP | 9997 | 08-31-25 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-26493-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------|---------------------|-----------------------|-----------------|
| Oregon | NELAP | 4157 | 09-01-25 |
| Pennsylvania | NELAP | 68-00540 | 02-28-26 |
| South Carolina | State | 85002 | 06-30-25 * |
| Texas | NELAP | T104704193 | 07-31-25 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-25 |
| USDA | US Federal Programs | 525-23-138-94730 | 05-18-26 |
| Utah | NELAP | MO00054 | 07-31-25 |
| Virginia | NELAP | 460230 | 06-14-26 |
| Washington | State | C592 | 08-30-25 |
| West Virginia DEP | State | 381 | 10-31-25 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Table 1. Analytical Parameters
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| Parameter | Laboratory Method | Concentration (mg/L ^a) | | Bottle | Preservative | Holding Time |
|-----------------------|-------------------|------------------------------------|-----------------|---------------------|------------------|--------------|
| | | NMAC Standard | Reporting Limit | | | |
| Aluminum, dissolved | 200.7 | 5 | 0.02 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Barium, dissolved | 200.7 | 2 | 0.003 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Beryllium, dissolved | 200.7 | 0.004 | 0.002 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Boron, dissolved | 200.7 | 0.75 | 0.04 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Calcium, dissolved | 200.7 | — | 1 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Cadmium, dissolved | 200.7 | 0.005 | 0.002 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Chromium, dissolved | 200.7 | 0.05 | 0.006 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Cobalt, dissolved | 200.7 | 0.5 | 0.006 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Iron, dissolved | 200.7 | 1 | 0.02 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Magnesium, dissolved | 200.7 | — | 1 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Manganese, dissolved | 200.7 | 0.2 | 0.002 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Molybdenum, dissolved | 200.7 | 1 | 0.008 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Potassium, dissolved | 200.7 | — | 1 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Sodium, dissolved | 200.7 | — | 1 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Nickel, dissolved | 200.7 | 0.2 | 0.01 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Zinc, dissolved | 200.7 | 10 | 0.01 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Antimony, dissolved | 200.8 | 0.006 | 0.001 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Arsenic, dissolved | 200.8 | 0.01 | 0.001 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Copper, dissolved | 200.8 | 1 | 0.001 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Lead, dissolved | 200.8 | 0.015 | 0.0005 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Selenium, dissolved | 200.8 | 0.05 | 0.001 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Silver, dissolved | 200.7 | 0.05 | 0.005 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|---|-------|---------|----------------|------------------------|---|----------|
| Thallium, dissolved | 200.8 | 0.002 | 0.00025 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Uranium, dissolved | 200.8 | 0.03 | 0.0005 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Mercury, total | 245.1 | 0.002 | 0.0002 | 1-250 mL HDPE | HNO ₃ | 28 days |
| Bromide | 300 | — | 0.1 | 1-125 mL HDPE | Unpreserved | 28 days |
| Chloride | 300 | 250 | 0.5 | 1-125 mL HDPE | Unpreserved | 28 days |
| Fluoride | 300 | 1.6 | 0.1 | 1-250 mL HDPE | Unpreserved | 28 days |
| Nitrate | 300 | 10 | 0.1 | 1-125 mL HDPE | Unpreserved | 48 hours |
| Nitrite | 300 | 1 | 0.1 | 1-125 mL HDPE | Unpreserved | 48 hours |
| Sulfate | 300 | 600 | 0.5 | 1-125 mL HDPE | Unpreserved | 28 days |
| Perchlorate (CAS 14797-73-0) | 331.0 | — | 0.00005 | 1-125 mL plastic | Unpreserved | 28 days |
| Cyanide | 335.4 | 0.2 | 0.01 | 1-500 mL plastic amber | NaOH | 14 days |
| 1,2-Dibromoethane (ethylene dibromide, EDB)
(CAS 106-93-4) | 504.1 | 0.00005 | 0.00001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 14 days |
| Perfluorohexane sulfonic acid (PHHxS)
(CAS 355-46-4) | 537 | — | 0.00001 | 2-250 mL HDPE | Unpreserved | 14 days |
| Perfluorooctane sulfonate (PFOS) (CAS 1763-23-1) | 537 | — | 0.00001 | 2-250 mL HDPE | Unpreserved | 14 days |
| Perfluorooctanoic acid (PFOA) (CAS 335-67-1) | 537 | — | 0.00001 | 2-250 mL HDPE | Unpreserved | 14 days |
| Aldrin (CAS 309-00-2) | 8081 | — | 0.0001 | 6-1 L glass amber | Unpreserved | 7 days |
| DDT (CAS 50-29-3) | 8081 | — | 0.0001 | 6-1 L glass amber | Unpreserved | 7 days |
| Dieldrin (CAS 60-57-1) | 8081 | — | 0.0001 | 6-1 L glass amber | Unpreserved | 7 days |
| Polychlorinated biphenyls (PCBs) (CAS 1336-36-3) | 8082 | 0.0005 | 0.00025 | 6-1 L glass amber | Unpreserved | 40 days |
| 2,4,5-TP (Silvex) | 8151 | — | 0.0001 | 1-1 L glass amber | Unpreserved | 14 days |
| 2,4-D (2,4-Dichlorophenoxyacetic acid) | 8151 | — | 0.0001 | 1-1 L glass amber | Unpreserved | 14 days |
| Monochlorobenzene (CAS 108-90-7) | 8260 | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Thiolane 1,1 dioxide (sulfolane) (CAS 126-33-0) | 8270 | — | Narrative only | 6-1 L glass amber | Unpreserved | 7 days |
| 2,4,6-Trinitrotoluene (TNT) (CAS 118-96-7) | 8330 | — | 0.00338 | 6-1 L glass amber | Unpreserved | 14 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|--|-------|-------|----------------|------------------------|---|----------|
| Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) (CAS 121-82-4) | 8330 | — | 0.00338 | 6-1 L glass amber | Unpreserved | 14 days |
| Octrahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) (CAS 2691-41-0) | 8330 | — | 0.00338 | 6-1 L glass amber | Unpreserved | 14 days |
| Alkalinity, total | 2320B | — | 20 | 1-250 mL HDPE | Unpreserved | 14 days |
| Bicarbonate | 2320B | — | 20 | 1-250 mL HDPE | Unpreserved | 14 days |
| Carbonate | 2320B | — | 2 | 1-250 mL HDPE | Unpreserved | 14 days |
| Specific conductance (µmhos/cm) | 2510B | — | 10 µmhos/cm | 1-125 mL HDPE | Unpreserved | 28 days |
| Total dissolved solids | 2540C | — | 20 | 1-1 L HDPE | Unpreserved | 7 days |
| Cadmium, dissolved | 6010B | — | 0.002 | 1-125 mL plastic (F&S) | HNO ₃ | 180 days |
| Chlordane | 8081A | — | 0.001 | 2-40 mL VOAs | HCl | 7 days |
| Endosulfan (CAS 115-29-7) | 8081A | — | 0.0001 | 2-40 mL VOAs | HCl | 7 days |
| Endrin | 8081A | — | 0.0001 | 4-40 mL VOAs | HCl | 7 days |
| Heptachlor (and its epoxide) | 8081A | — | 0.0001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| Hexachlorocyclohexane (HCH, lindane): alpha-HCH; beta-HCH; gamma-HCH; and, technical-HCH | 8081A | — | 0.0001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| Lindane | 8081A | — | 0.0001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| Methoxychlor | 8081A | — | 0.0001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| Toxaphene | 8081A | — | 0.001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| 1,1,1-Trichloroethane (TCA) | 8260B | 0.2 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,1,2,2-Tetrachloroethane | 8260B | 0.01 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,1,2-Trichloroethane | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,1-Dichloroethane | 8260B | 0.025 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,1-Dichloroethene (1,1-DCE) (CAS 75-35-4) | 8260B | 0.007 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,2,4-Trichlorobenzene (CAS 120-82-1) | 8260B | 0.07 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,2,4-Trichlorophenol | 8260B | — | Narrative only | 3-40 mL VOAs | HCl | 14 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|---|-------|-------|-------|--------------|-----|---------|
| 1,2-Dichlorobenzene | 8260B | 0.6 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,2-Dichloroethane (EDC) | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,2-Dichloropropane | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,4-Dichlorobenzene | 8260B | 0.075 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1-Methylnaphthalene (CAS 90-12-0) | 8260B | — | 0.004 | 3-40 mL VOAs | HCl | 14 days |
| 2-Methylnaphthalene (CAS 91-57-6) | 8260B | — | 0.004 | 3-40 mL VOAs | HCl | 14 days |
| Acrolein (CAS 107-02-8) | 8260B | — | 0.01 | 3-40 mL VOAs | HCl | 14 days |
| Acrylonitrile (CAS 107-13-1) | 8260B | — | 0.01 | 3-40 mL VOAs | HCl | 14 days |
| Benzene | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Bromodichloromethane (CAS 75-27-4) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Bromomethane (CAS 74-83-9) | 8260B | — | 0.002 | 3-40 mL VOAs | HCl | 14 days |
| Carbon tetrachloride | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Chlorobenzene | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Chloroform | 8260B | 0.1 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Chloromethane (CAS 74-87-3) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Chloroethene (vinyl chloride) (CAS 75-01-4) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| cis-1,2-dichloroethene | 8260B | 0.07 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Dichlorodifluoromethane (fluorocarbon-12) (CAS 75-71-8) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Ethylbenzene | 8260B | 0.7 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Methyl ethyl ketone | 8260B | — | 0.01 | 3-40 mL VOAs | HCl | 14 days |
| Methyl tertiary-butyl ether (MTBE) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Methylene chloride | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Naphthalene (CAS 91-20-3) | 8260B | — | 0.002 | 3-40 mL VOAs | HCl | 14 days |
| Styrene | 8260B | 0.1 | 0.001 | 3-40 mL VOAs | HCl | 14 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|--|-------|-------|--------|-------------------|-------------|---------|
| Tetrachloroethene (perchloroethylene, PCE)
(CAS 127-18-4) | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Tetrachloromethane (carbon tetrachloride)
(CAS 56-23-5) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Toluene | 8260B | 1 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| trans-1,2-Dichloroethene | 8260B | 0.1 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Tribromomethane (bromoform) (CAS 75-25-2) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Trichloroethylene (TCE) | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Trichlorofluoromethane (fluorocarbon-11)
(CAS 75-69-4) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Trichloromethane (chloroform) (CAS 67-66-3) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Vinyl chloride | 8260B | 0.002 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Xylenes (total) including m-xylene, o-xylene and
p-xylene | 8260B | 0.62 | 0.002 | 3-40 mL VOAs | HCl | 14 days |
| 1,4-Dioxane (CAS 123-91-1) | 8270C | — | 0.001 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4,5-Trichlorophenol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4,6-Trichlorophenol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4-Dichlorophenol (CAS 120-83-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4-Dinitro-o-cresol (CAS 534-52-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4-Dinitrotoluene | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,6-Dinitrotoluene (2,6-DNT) (CAS 606-20-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 3,4-Benzofluoranthene (CAS 205-99-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Anthracene (CAS 120-12-7) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Atrazine | 8270C | 0.003 | 0.0015 | 6-1 L glass amber | Unpreserved | 14 days |
| Benzidine (CAS 92-87-5) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Benzo(k)fluoranthene (CAS 207-08-9) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|---|--------|--------|---------|-------------------|-------------|---------|
| Benzo-a-pyrene | 8270C | 0.0002 | 0.00014 | 6-1 L glass amber | Unpreserved | 14 days |
| bis (2-chloroethyl) ether (CAS 111-44-4) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| bis (2-chloroisopropyl) ether (CAS 108-60-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| bis (chloromethyl) ether (CAS 542-88-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Cresol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Di-2-ethylhexyl phthalate (DEHP) (CAS 117-81-7) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Dibutyl phthalate (CAS 84-74-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 3,3-Dichlorobenzidine (CAS 91-94-1) | 8270 C | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Dichloropropenes (CAS 542-75-6) | 8270C | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Diethyl phthalate (DEP) (CAS 84-66-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Dimethyl phthalate (DMP) (CAS 131-11-3) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Dinitrophenols (CAS 51-28-5) | 8270C | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Diphenylhydrazine (CAS 122-66-7) | 8270C | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Fluoranthene (CAS 206-44-0) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Fluorene (CAS 86-73-7) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Hexachlorobenzene (CAS 118-74-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Hexachlorobutadiene (CAS 87-68-3) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Hexachlorocyclopentadiene (CAS 77-47-4) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Hexachloroethane | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Isophorone (CAS 78-59-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| m-Cresol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Nitrobenzene | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| N-nitrosodibutylamine (CAS 924-16-3) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| N-nitrosodiethylamine (CAS 55-18-5) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| N-nitrosodimethylamine (CAS 62-75-9) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |

Notes are provided at the end of the table.

March 5, 2025

DB22 1334 Document4

Table 1. Analytical Parameters
Page 7 of 9

| | | | | | | |
|--|------------------|---------|--------|-------------------|--------------------------------|------------|
| N-nitrosodiphenylamine (CAS 86-30-6) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| N-nitrosopyrrolidine (CAS 930-55-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| o-Cresol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| PAHs (total naphthalene plus monomethylnaphthalenes) | 8270C | 0.03 | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| p-Cresol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Pentachlorobenzene (CAS 608-93-5) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Pentachlorophenol | 8270C | 0.001 | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Phenanthrene (CAS 85-01-8) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Phenol (CAS 108-95-2) | 8270C | 0.005 | 0.0005 | 2-1 L glass amber | H ₂ SO ₄ | 7 days |
| Polynuclear aromatic hydrocarbons (PAHs) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Prometon (CAS 1610-18-0) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Pyrene (CAS 129-00-0) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Pyridine | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 1,2,4,5-Tetrachlorobenzene (CAS 95-94-3) | 8270E | — | 0.0005 | 6-1 L glass amber | Unpreserved | 7 days |
| Radium-226 and -228 combined (pCi/L) | 903.0 and 904.0 | 5 pCi/L | <5 | 2-1 L HDPE | HCl | 180 days |
| pH (s.u.) | 9040C | 6–9 | ~2–12 | 1-1 L HDPE | Unpreserved | 15 minutes |
| Cation/anion balance | Calculation | — | NA | — | — | — |
| Temperature (°C) | Provided with pH | — | — | — | — | — |

Source: 20.6 2 3103 NMAC and 20.6 2.7 NMAC "Toxic Parameters"

^a Unless otherwise noted

- mg/L = Milligrams per liter
- = Unspecified
- µmhos/cm = Micromhos per centimeter
- pCi/L = Picocuries per liter
- s.u. = Standard units
- NA = Not applicable

Notes are provided at the end of the table.

March 5, 2025

DB22 1334 | Document4

ORIGIN ID:ABQA (505) 345-3975
SAMPLE RECEIVING
4901 HAWKINS NE
ALBUQUERQUE, NM 87109
UNITED STATES US

SHIP DATE: 12JUN25
ACTWGT: 60.00 LB
CAD: 1717027/INET4535
BILL SENDER

TO **SAMPLE RECIEVING**
EUROFINS TUSTIN
2841 DOW AVE
SUITE 100
TUSTIN CA 92780

58GJ5M0E7469F2

(714) 895-5494 REF:
INV: DEPT:
PO:

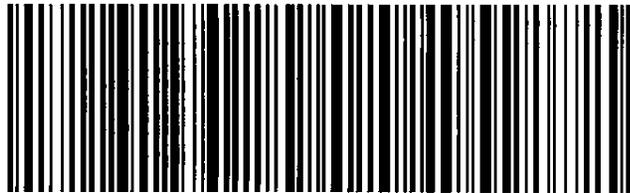


FRI - 13 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 8819 8884 2740
0201

XW DTHA

92780
CA-US SNA



865-26493 Waybill

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Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-26493-1

Login Number: 26493

List Source: Eurofins Albuquerque

List Number: 1

Creator: Rojas, Juan

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-26493-1

Login Number: 26493
List Number: 4
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 06/13/25 12:48 PM

| Question | Answer | Comment |
|--|--------|------------------------------------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | Seal present with no number. |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 5.8 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-26493-1

Login Number: 26493
List Number: 3
Creator: Bankston, Victoria K

List Source: Eurofins Pensacola
List Creation: 06/13/25 01:28 PM

| Question | Answer | Comment |
|--|--------|------------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.0°C IR10 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-26493-1

Login Number: 26493
List Number: 5
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 06/13/25 02:01 PM

| Question | Answer | Comment |
|--|--------|------------------------------------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 4.4c |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-26493-1

Login Number: 26493
List Number: 2
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 06/13/25 12:52 PM

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth Bastien
 Daniel B. Stephens & Associates Inc.
 6501 Americas Pkwy NE
 Suite 200
 Albuquerque, New Mexico 87110

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JOB DESCRIPTION

HFSNR

JOB NUMBER

885-32182-1

Eurofins Albuquerque
 4901 Hawkins NE
 Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Jackie Bolte, Project Manager
jackie.bolte@et.eurofinsus.com
(505)345-3975

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Laboratory Job ID: 885-32182-1



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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *1 | LCS/LCSD RPD exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| p | The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

LCMS

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| ^+ | Continuing Calibration Verification (CCV) is outside acceptance limits, high biased. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| E | Result exceeded calibration range. |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Rad

| Qualifier | Qualifier Description |
|-----------|---|
| U | Result is less than the sample detection limit. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |

Eurofins Albuquerque

Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|--|
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

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Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project: HFSNR

Job ID: 885-32182-1

Job ID: 885-32182-1

Eurofins Albuquerque

Job Narrative 885-32182-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/29/2025 8:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.8°C, 1.3°C, 4.2°C and 4.8°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_QQQ: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-33674 and analytical batch 885-33850 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270E_QQQ: The method blank for preparation batch 885-33674 and analytical batch 885-33850 contained Butyl benzyl phthalate, Di-n-octyl phthalate and Phenol above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270E_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-33674 and analytical batch 885-33850 recovered outside control limits for the following analytes: Pyridine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E_QQQ: The continuing calibration verification (CCV) associated with batch 885-33850 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Benzoic acid and Pyridine. The samples associated with this CCV were non-detects or j values for the affected analytes; therefore, the data have been reported. The associated samples are: WDW-1MW-1-20250828 (885-32182-1) and DUP-20250828 (885-32182-2).

Method 8270E_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: DUP-20250828 (885-32182-2), (885-32043-B-1-B MS) and (885-32043-B-1-C MSD). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

Method 8151A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-619939 and analytical batch 570-623301 recovered outside control limits for the following analytes: 2,4,5-T and MCPA.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Eurofins Albuquerque

Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project: HFSNR

Job ID: 885-32182-1

Job ID: 885-32182-1 (Continued)

Eurofins Albuquerque

Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 885-33697 and analytical batch 885-34204.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 8081B: The continuing calibration verification (CCV) associated with batch 885-34033 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:WDW-1MW-1-20250828 (885-32182-1) and DUP-20250828 (885-32182-2).

Method 8081B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 885-33697 and analytical batch 885-34033 recovered outside control limits for the following analytes: 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, beta-BHC, delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide and Methoxychlor.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_OF_48H_PREC: The following samples were diluted due to the nature of the sample matrix: WDW-1MW-1-20250828 (885-32182-1) and DUP-20250828 (885-32182-2). Elevated reporting limits (RLs) are provided.

Method 8330A: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-620440.Method:8330

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

LCMS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS

Method 537.1: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: After solid phase extraction and adjusting to the final volume, the following samples opaque in color in the collection tube which could have caused instrument clogging: WDW-1MW-1-20250828 (885-32182-1) and DUP-20250828 (885-32182-2). Thus, the samples were filtered with a 0.20um filter Lot number: 0000374374

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 200.8 - Dissolved: The continuing calibration verification (CCV) associated with batch 885-34256 recovered above the upper control limit for Uranium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 245.1: The continuing calibration verification (CCV) associated with batch 885-33799 recovered above the upper control limit for Mercury. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540C_SingleDry: The analysis volume selected for the following samples produced a base result greater than 200mg before calculation of the final result: WDW-1MW-1-20250828 (885-32182-1) and DUP-20250828 (885-32182-2). Reanalysis could not be performed due to holding time exceedance. Visual inspection by analyst shows no signs of trapped moisture, report as is. The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project: HFSNR

Job ID: 885-32182-1

Job ID: 885-32182-1 (Continued)

Eurofins Albuquerque

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Eurofins Albuquerque

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.41 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2,3-Trichloropropane | ND | | 2.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.75 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 1-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 09/10/25 15:41 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | 0.25 | ug/L | | | 09/10/25 15:41 | 1 |
| 2-Butanone | ND | | 10 | 2.0 | ug/L | | | 09/10/25 15:41 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 2-Hexanone | ND | | 10 | 2.0 | ug/L | | | 09/10/25 15:41 | 1 |
| 2-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 09/10/25 15:41 | 1 |
| 4-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 1.0 | ug/L | | | 09/10/25 15:41 | 1 |
| Acetone | ND | | 10 | 2.5 | ug/L | | | 09/10/25 15:41 | 1 |
| Benzene | 0.19 | J | 1.0 | 0.15 | ug/L | | | 09/10/25 15:41 | 1 |
| Bromobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 15:41 | 1 |
| Bromomethane | ND | | 3.0 | 2.0 | ug/L | | | 09/10/25 15:41 | 1 |
| Carbon disulfide | ND | | 10 | 0.40 | ug/L | | | 09/10/25 15:41 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.50 | ug/L | | | 09/10/25 15:41 | 1 |
| Chloroethane | ND | | 2.0 | 0.40 | ug/L | | | 09/10/25 15:41 | 1 |
| Chloroform | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 15:41 | 1 |
| Chloromethane | ND | | 3.0 | 1.0 | ug/L | | | 09/10/25 15:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 15:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Dibromomethane | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 15:41 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.50 | ug/L | | | 09/10/25 15:41 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 15:41 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|-----------|-----------|-----|------|------|---|----------|----------------|---------|
| Methyl-tert-butyl Ether (MTBE) | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 15:41 | 1 |
| Methylene Chloride | ND | | 2.5 | 1.0 | ug/L | | | 09/10/25 15:41 | 1 |
| n-Butylbenzene | ND | | 3.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Naphthalene | ND | | 2.0 | 0.50 | ug/L | | | 09/10/25 15:41 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Styrene | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 15:41 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 15:41 | 1 |
| Tetrachloroethene (PCE) | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Toluene | 11 | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Trichloroethene (TCE) | ND | | 1.0 | 0.30 | ug/L | | | 09/10/25 15:41 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.30 | ug/L | | | 09/10/25 15:41 | 1 |
| Xylenes, Total | ND | | 1.5 | 0.20 | ug/L | | | 09/10/25 15:41 | 1 |
| Acrylonitrile | ND | | 10 | 0.75 | ug/L | | | 09/10/25 15:41 | 1 |
| Acrolein | ND | | 10 | 3.3 | ug/L | | | 09/10/25 15:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 | | 09/10/25 15:41 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | 09/10/25 15:41 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | | 09/10/25 15:41 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 70 - 130 | | 09/10/25 15:41 | 1 |

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Prometon | ND | | 1.0 | 0.22 | ug/L | | 09/04/25 13:40 | 09/05/25 17:46 | 1 |

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.078 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.087 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.090 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.0 | 0.082 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 1,4-Dioxane | ND | | 0.50 | 0.23 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 1-Methylnaphthalene | ND | | 0.20 | 0.097 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2,4,5-Trichlorophenol | ND | | 1.0 | 0.075 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| N-Nitrosodi-n-butylamine | ND | | 10 | 1.1 | ug/L | | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 2,4,6-Trichlorophenol | ND | | 1.0 | 0.082 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Pentachlorobenzene | ND | | 10 | 0.34 | ug/L | | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | 10 | 0.36 | ug/L | | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 2,4-Dichlorophenol | ND | | 1.0 | 0.072 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2,4-Dimethylphenol | ND | | 1.0 | 0.099 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| N-Nitrosodiethylamine | ND | | 10 | 0.54 | ug/L | | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 2,4-Dinitrophenol | ND | | 3.0 | 1.4 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Sulfolane | ND | | 10 | 0.81 | ug/L | | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.0 | 0.078 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| N-Nitrosopyrrolidine | ND | | 10 | 0.80 | ug/L | | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.0 | 0.51 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|------------|-------|-------|------|---|----------------|----------------|---------|
| 2-Chloronaphthalene | ND | | 1.0 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2-Chlorophenol | ND | | 1.0 | 0.31 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2-Methylnaphthalene | ND | | 0.20 | 0.087 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2-Methylphenol | 0.068 | J | 1.0 | 0.063 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2-Nitroaniline | ND | | 1.0 | 0.38 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2-Nitrophenol | ND | | 1.0 | 0.079 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 3 & 4 Methylphenol | 0.44 | J | 1.0 | 0.066 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 1.0 | 0.63 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 3-Nitroaniline | ND | | 1.0 | 0.36 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2.0 | 1.2 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.0 | 0.077 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 4-Chloro-3-methylphenol | ND | | 1.0 | 0.12 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 4-Chloroaniline | ND | | 1.0 | 0.33 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 1.0 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 4-Nitroaniline | ND | | 1.0 | 0.50 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 4-Nitrophenol | ND | | 1.0 | 0.64 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Acenaphthene | ND | | 0.20 | 0.085 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Acenaphthylene | ND | | 0.20 | 0.064 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Aniline | ND | | 10 | 1.7 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Anthracene | ND | | 0.20 | 0.056 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Azobenzene | ND | | 1.0 | 0.49 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Benzo[a]anthracene | ND | | 0.20 | 0.047 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Atrazine | ND | | 0.50 | 0.44 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Benzo[a]pyrene | ND | | 0.070 | 0.057 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Benzo[b]fluoranthene | ND | | 0.20 | 0.066 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Benzidine | ND | | 10 | 2.0 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.20 | 0.056 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Benzo[k]fluoranthene | ND | | 0.20 | 0.048 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Benzoic acid | 13 | J | 15 | 7.1 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Benzyl alcohol | 0.18 | J | 1.0 | 0.14 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 1.0 | 0.060 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.0 | 0.090 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2,2'-oxybis[1-chloropropane] | ND | | 1.0 | 0.092 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 1.0 | 0.95 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Butyl benzyl phthalate | ND | | 1.0 | 0.44 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Carbazole | ND | | 1.0 | 0.083 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Chrysene | ND | | 0.20 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Di-n-butyl phthalate | ND | | 1.5 | 1.1 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Di-n-octyl phthalate | 0.13 | J B | 1.0 | 0.061 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.20 | 0.045 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Dibenzofuran | ND | | 1.0 | 0.075 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Diethyl phthalate | ND | | 1.5 | 1.5 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Dimethyl phthalate | ND | | 1.0 | 0.099 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Fluoranthene | ND | | 0.20 | 0.068 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Fluorene | ND | | 0.20 | 0.081 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Hexachlorobenzene | ND | | 5.0 | 0.49 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 3.5 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Hexachlorocyclopentadiene | ND | | 5.0 | 3.5 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Hexachloroethane | ND | | 5.0 | 3.3 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | ND | | 0.20 | 0.058 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Isophorone | ND | | 1.0 | 0.22 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.0 | 0.65 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| N-Nitrosodimethylamine | ND | | 1.0 | 0.29 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.0 | 0.32 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Naphthalene | ND | | 0.20 | 0.077 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Nitrobenzene | ND | | 1.0 | 0.66 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Pentachlorophenol | ND | | 0.33 | 0.33 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Phenanthrene | ND | | 0.20 | 0.061 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Phenol | ND | | 1.0 | 0.28 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Pyrene | ND | | 0.20 | 0.067 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Pyridine | ND | *+ | 10 | 2.6 | ug/L | | 09/02/25 06:57 | 09/04/25 17:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Phenol-d5 (Surr) | 31 | | 10 - 150 | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| Terphenyl-d14 (Surr) | 70 | | 28 - 150 | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 2,4,6-Tribromophenol (Surr) | 30 | | 10 - 150 | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 2-Fluorobiphenyl | 65 | | 25 - 139 | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| 2-Fluorophenol (Surr) | 16 | | 10 - 150 | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| Nitrobenzene-d5 (Surr) | 78 | | 22 - 150 | 09/04/25 13:40 | 09/05/25 17:46 | 1 |
| Phenol-d5 (Surr) | 56 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2,4,6-Tribromophenol (Surr) | 82 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| Nitrobenzene-d5 (Surr) | 126 | | 29 - 130 | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2-Fluorobiphenyl | 120 | | 20 - 130 | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| p-Terphenyl-d14 (Surr) | 87 | | 41 - 130 | 09/02/25 06:57 | 09/04/25 17:43 | 1 |
| 2-Fluorophenol (Surr) | 54 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 17:43 | 1 |

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND | | 0.0095 | 0.0076 | ug/L | | 09/05/25 16:11 | 09/06/25 17:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.019 | 0.0081 | ug/L | | 09/05/25 16:11 | 09/06/25 17:41 | 1 |

Method: SW846 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| 4,4'-DDD | ND | *1 | 0.10 | 0.085 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| 4,4'-DDE | ND | *1 | 0.10 | 0.037 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| 4,4'-DDT | ND | *1 | 0.10 | 0.075 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Aldrin | ND | *1 | 0.10 | 0.067 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| alpha-BHC | ND | *1 | 0.10 | 0.034 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| beta-BHC | ND | *1 | 0.15 | 0.11 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Chlordane | ND | | 1.0 | 0.50 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| delta-BHC | ND | *1 | 0.10 | 0.086 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Dieldrin | ND | *1 | 0.10 | 0.068 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Endosulfan I | ND | *1 | 0.10 | 0.035 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Endosulfan II | ND | *1 | 0.10 | 0.070 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Endosulfan sulfate | ND | *1 | 0.10 | 0.085 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Endrin | ND | *1 | 0.10 | 0.080 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Endrin aldehyde | ND | *1 | 0.10 | 0.072 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| gamma-BHC (Lindane) | ND | *1 | 0.10 | 0.066 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Heptachlor | ND | *1 | 0.10 | 0.070 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-------|------|---|-----------------|-----------------|----------------|
| Heptachlor epoxide | ND | *1 | 0.10 | 0.036 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Methoxychlor | ND | *1 | 0.10 | 0.092 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Toxaphene | ND | | 2.0 | 0.50 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Chlordane (technical) Peak 1 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Chlordane (technical) Peak 2 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Chlordane (technical) Peak 3 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Chlordane (technical) Peak 4 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Chlordane (technical) Peak 5 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Toxaphene Peak 1 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Toxaphene Peak 2 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Toxaphene Peak 3 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Toxaphene Peak 4 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Toxaphene Peak 5 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 86 | | 53 - 130 | | | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |
| Tetrachloro-m-xylene | 63 | | 18 - 130 | | | | 09/02/25 11:21 | 09/06/25 17:02 | 1 |

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| PCB-1016 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |
| PCB-1221 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |
| PCB-1232 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |
| PCB-1242 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |
| PCB-1248 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |
| PCB-1254 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |
| PCB-1260 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tetrachloro-m-xylene | 58 | | 15 - 137 | | | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |
| DCB Decachlorobiphenyl (Surr) | 62 | | 15 - 175 | | | | 09/02/25 11:21 | 09/09/25 00:18 | 1 |

Method: SW846 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 2,4,5-T | ND | *1 | 0.54 | 0.23 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| 2,4,5-TP (Silvex) | ND | | 0.54 | 0.15 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| 2,4-D | ND | | 5.4 | 2.1 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| 2,4-DB | ND | | 5.4 | 3.8 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| Dalapon | ND | | 14 | 5.1 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| Dicamba | ND | | 0.54 | 0.31 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| Dichlorprop | ND | | 5.4 | 2.1 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| Dinoseb | ND | | 2.7 | 2.4 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| MCPA | ND | *1 | 540 | 380 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| MCPPP | ND | | 540 | 330 | ug/L | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4-Dichlorophenylacetic acid (Surr) | 69 | | 20 - 161 | | | | 09/03/25 14:06 | 09/10/25 20:21 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromide | 1.6 | | 1.0 | 0.50 | mg/L | | | 08/30/25 01:22 | 10 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| Nitrate | ND | | 1.0 | 0.20 | mg/L | | | 08/30/25 01:22 | 10 |
| Chloride | 1100 | | 50 | 25 | mg/L | | | 08/30/25 01:32 | 100 |
| Nitrite | ND | | 1.0 | 0.12 | mg/L | | | 08/30/25 01:22 | 10 |
| Fluoride | 0.51 | J | 1.0 | 0.46 | mg/L | | | 08/30/25 01:22 | 10 |
| Sulfate | 1900 | | 5.0 | 3.9 | mg/L | | | 08/30/25 01:22 | 10 |

Method: SW846 8330A - Nitroaromatics and Nitramines

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|-------------|-----------|-----|-------|------|---|----------------|----------------|---------|
| 1,3,5-Trinitrobenzene | ND | | 1.1 | 0.14 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 1,3-Dinitrobenzene | ND | | 1.1 | 0.13 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 2,4,6-Trinitrotoluene | ND | | 1.1 | 0.66 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.1 | 0.17 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.1 | 0.080 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 2-Amino-4,6-DNT | ND | | 1.1 | 0.087 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 2-Nitrotoluene | ND | | 1.1 | 0.071 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 3-Nitrotoluene | ND | | 1.1 | 0.099 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 4-Amino-2,6-DNT | ND | | 1.1 | 0.22 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| 4-Nitrotoluene | ND | | 1.1 | 0.16 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| HMX | 0.22 | J | 1.1 | 0.12 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| Nitrobenzene | ND | | 1.1 | 0.14 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| RDX | ND | | 1.1 | 0.11 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |
| Tetryl | ND | | 1.1 | 0.68 | ug/L | | 09/03/25 14:07 | 09/04/25 18:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dinitrobenzene (Surr) | 101 | | 60 - 150 | 09/03/25 14:07 | 09/04/25 18:28 | 1 |

Method: EPA 331.0 - Perchlorate (LC/MS/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-------------|-----------|------|------|------|---|----------|----------------|---------|
| Perchlorate | 0.54 | | 0.50 | 0.10 | ug/L | | | 09/09/25 15:28 | 5 |

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA) | 0.00088 | J | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluoroheptanoic acid (PFHpA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorooctanoic acid (PFOA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorononanoic acid (PFNA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorodecanoic acid (PFDA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluoroundecanoic acid (PFUnA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorododecanoic acid (PFDoA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorotetradecanoic acid (PFTA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|---------|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan
e-1-sulfonic acid (11Cl-PF3OUdS) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Hexafluoropropylene oxide dimer acid
(HFPO DA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid
(ADONA) | ND | | 0.0019 | 0.00047 | ug/L | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 13C2 PFHxA | 89 | | 70 - 130 | | | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| 13C2 PFDA | 97 | | 70 - 130 | | | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| d5-NEtFOSAA | 95 | | 70 - 130 | | | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |
| 13C3 HFPO-DA | 86 | | 70 - 130 | | | | 09/11/25 04:38 | 09/11/25 15:58 | 1 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|--------|--------|------|---|----------|----------------|---------|
| Aluminum | ND | | 0.020 | 0.017 | mg/L | | | 09/03/25 08:21 | 1 |
| Barium | 0.058 | | 0.030 | 0.018 | mg/L | | | 09/05/25 11:19 | 10 |
| Beryllium | ND | | 0.0020 | 0.0011 | mg/L | | | 09/03/25 08:21 | 1 |
| Boron | 1.7 | | 0.40 | 0.053 | mg/L | | | 09/03/25 08:23 | 10 |
| Cadmium | ND | | 0.0020 | 0.0017 | mg/L | | | 09/03/25 08:21 | 1 |
| Calcium | 730 | | 10 | 4.2 | mg/L | | | 09/03/25 08:23 | 10 |
| Chromium | ND | | 0.060 | 0.030 | mg/L | | | 09/05/25 11:19 | 10 |
| Cobalt | ND | | 0.060 | 0.033 | mg/L | | | 09/05/25 11:19 | 10 |
| Iron | ND | | 0.020 | 0.0093 | mg/L | | | 09/03/25 08:21 | 1 |
| Magnesium | 110 | | 10 | 0.64 | mg/L | | | 09/03/25 08:23 | 10 |
| Manganese | 0.065 | | 0.020 | 0.012 | mg/L | | | 09/05/25 11:19 | 10 |
| Molybdenum | 0.053 | | 0.0080 | 0.0063 | mg/L | | | 09/03/25 08:21 | 1 |
| Nickel | ND | | 0.10 | 0.040 | mg/L | | | 09/05/25 11:19 | 10 |
| Potassium | 31 | | 1.0 | 0.45 | mg/L | | | 09/03/25 08:21 | 1 |
| Sodium | 430 | | 10 | 2.5 | mg/L | | | 09/08/25 08:25 | 10 |
| Zinc | ND | | 0.10 | 0.075 | mg/L | | | 09/05/25 11:19 | 10 |
| Silver | 0.0097 | | 0.0050 | 0.0015 | mg/L | | | 09/03/25 08:21 | 1 |

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|----------------|-----------|---------|----------|------|---|----------|----------------|---------|
| Antimony | 0.00044 | J | 0.0010 | 0.00028 | mg/L | | | 09/08/25 17:03 | 1 |
| Arsenic | 0.0013 | | 0.00050 | 0.00041 | mg/L | | | 09/08/25 17:03 | 1 |
| Copper | ND | | 0.00050 | 0.00030 | mg/L | | | 09/08/25 17:03 | 1 |
| Lead | ND | | 0.00050 | 0.00034 | mg/L | | | 09/08/25 17:03 | 1 |
| Selenium | 0.0023 | | 0.0010 | 0.00092 | mg/L | | | 09/08/25 17:03 | 1 |
| Cadmium | ND | | 0.00050 | 0.00018 | mg/L | | | 09/08/25 17:03 | 1 |
| Thallium | ND | | 0.00025 | 0.000036 | mg/L | | | 09/08/25 17:03 | 1 |
| Uranium | ND | ^+ | 0.00050 | 0.00019 | mg/L | | | 09/08/25 17:03 | 1 |

Method: EPA 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.00020 | 0.000080 | mg/L | | 09/02/25 12:53 | 09/03/25 10:08 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 4600 | E | 50 | 25 | mg/L | | | 09/03/25 16:34 | 1 |

Eurofins Albuquerque

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|--------|--------|----------|---|----------------|----------------|---------|
| Phenols, Total (EPA 420.4) | ND | | 0.0050 | 0.0020 | mg/L | | | 09/04/25 15:59 | 1 |
| Total Alkalinity as CaCO3 (SM 2320B) | 21 | | 20 | 20 | mg/L | | | 09/02/25 11:40 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | ND | | 20 | 20 | mg/L | | | 09/02/25 11:40 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | 16 | | 2.0 | 2.0 | mg/L | | | 09/02/25 11:40 | 1 |
| Specific Conductance (SM 2510B) | 5800 | | 10 | 10 | umhos/cm | | | 09/02/25 11:40 | 1 |
| Cyanide, Total (SM 4500 CN E) | ND | | 0.025 | 0.0093 | mg/L | | 09/03/25 13:36 | 09/03/25 16:18 | 1 |
| pH (SM 4500 H+ B) | 9.2 | HF | 0.1 | 0.1 | SU | | | 09/02/25 11:40 | 1 |

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|------------------|-----------------------|-----------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.710 | | 0.297 | 0.303 | 1.00 | 0.341 | pCi/L | 09/04/25 08:22 | 09/30/25 21:02 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.5 | | 30 - 110 | | | | | 09/04/25 08:22 | 09/30/25 21:02 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|------------------|-----------------------|-----------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 1.26 | | 0.630 | 0.640 | 1.00 | 0.882 | pCi/L | 09/04/25 08:27 | 09/30/25 16:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.5 | | 30 - 110 | | | | | 09/04/25 08:27 | 09/30/25 16:13 | 1 |
| Y Carrier | 86.4 | | 30 - 110 | | | | | 09/04/25 08:27 | 09/30/25 16:13 | 1 |

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.41 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2,3-Trichloropropane | ND | | 2.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.75 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 1-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 09/10/25 16:09 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | 0.25 | ug/L | | | 09/10/25 16:09 | 1 |
| 2-Butanone | ND | | 10 | 2.0 | ug/L | | | 09/10/25 16:09 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 2-Hexanone | ND | | 10 | 2.0 | ug/L | | | 09/10/25 16:09 | 1 |
| 2-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 09/10/25 16:09 | 1 |
| 4-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 1.0 | ug/L | | | 09/10/25 16:09 | 1 |
| Acetone | ND | | 10 | 2.5 | ug/L | | | 09/10/25 16:09 | 1 |
| Benzene | 0.18 | J | 1.0 | 0.15 | ug/L | | | 09/10/25 16:09 | 1 |
| Bromobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 16:09 | 1 |
| Bromomethane | ND | | 3.0 | 2.0 | ug/L | | | 09/10/25 16:09 | 1 |
| Carbon disulfide | ND | | 10 | 0.40 | ug/L | | | 09/10/25 16:09 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.50 | ug/L | | | 09/10/25 16:09 | 1 |
| Chloroethane | ND | | 2.0 | 0.40 | ug/L | | | 09/10/25 16:09 | 1 |
| Chloroform | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 16:09 | 1 |
| Chloromethane | ND | | 3.0 | 1.0 | ug/L | | | 09/10/25 16:09 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 16:09 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Dibromomethane | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 16:09 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.50 | ug/L | | | 09/10/25 16:09 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 16:09 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|-----------|-----------|-----|------|------|---|----------|----------------|---------|
| Methyl-tert-butyl Ether (MTBE) | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 16:09 | 1 |
| Methylene Chloride | ND | | 2.5 | 1.0 | ug/L | | | 09/10/25 16:09 | 1 |
| n-Butylbenzene | ND | | 3.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Naphthalene | ND | | 2.0 | 0.50 | ug/L | | | 09/10/25 16:09 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Styrene | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 16:09 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 16:09 | 1 |
| Tetrachloroethene (PCE) | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Toluene | 11 | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Trichloroethene (TCE) | ND | | 1.0 | 0.30 | ug/L | | | 09/10/25 16:09 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.30 | ug/L | | | 09/10/25 16:09 | 1 |
| Xylenes, Total | ND | | 1.5 | 0.20 | ug/L | | | 09/10/25 16:09 | 1 |
| Acrylonitrile | ND | | 10 | 0.75 | ug/L | | | 09/10/25 16:09 | 1 |
| Acrolein | ND | | 10 | 3.3 | ug/L | | | 09/10/25 16:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 | | 09/10/25 16:09 | 1 |
| Toluene-d8 (Surr) | 98 | | 70 - 130 | | 09/10/25 16:09 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | 09/10/25 16:09 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 70 - 130 | | 09/10/25 16:09 | 1 |

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Prometon | ND | | 1.0 | 0.22 | ug/L | | 09/04/25 13:40 | 09/05/25 18:16 | 1 |

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.078 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.087 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.090 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.0 | 0.082 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 1,4-Dioxane | ND | | 0.50 | 0.23 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 1-Methylnaphthalene | ND | | 0.20 | 0.097 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2,4,5-Trichlorophenol | ND | | 1.0 | 0.075 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| N-Nitrosodi-n-butylamine | ND | | 10 | 1.1 | ug/L | | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 2,4,6-Trichlorophenol | ND | | 1.0 | 0.082 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Pentachlorobenzene | ND | | 10 | 0.34 | ug/L | | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | 10 | 0.36 | ug/L | | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 2,4-Dichlorophenol | ND | | 1.0 | 0.072 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2,4-Dimethylphenol | ND | | 1.0 | 0.099 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| N-Nitrosodiethylamine | ND | | 10 | 0.55 | ug/L | | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 2,4-Dinitrophenol | ND | | 3.0 | 1.4 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Sulfolane | ND | | 10 | 0.81 | ug/L | | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.0 | 0.078 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| N-Nitrosopyrrolidine | ND | | 10 | 0.80 | ug/L | | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.0 | 0.51 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|------------|-------|-------|------|---|----------------|----------------|---------|
| 2-Chloronaphthalene | ND | | 1.0 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2-Chlorophenol | ND | | 1.0 | 0.31 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2-Methylnaphthalene | ND | | 0.20 | 0.087 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2-Methylphenol | ND | | 1.0 | 0.063 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2-Nitroaniline | ND | | 1.0 | 0.38 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2-Nitrophenol | ND | | 1.0 | 0.079 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 3 & 4 Methylphenol | 0.40 | J | 1.0 | 0.066 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 1.0 | 0.63 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 3-Nitroaniline | ND | | 1.0 | 0.36 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2.0 | 1.2 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.0 | 0.077 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 4-Chloro-3-methylphenol | ND | | 1.0 | 0.12 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 4-Chloroaniline | ND | | 1.0 | 0.33 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 1.0 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 4-Nitroaniline | ND | | 1.0 | 0.50 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 4-Nitrophenol | ND | | 1.0 | 0.64 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Acenaphthene | ND | | 0.20 | 0.085 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Acenaphthylene | ND | | 0.20 | 0.064 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Aniline | 1.8 | J | 10 | 1.7 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Anthracene | ND | | 0.20 | 0.056 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Azobenzene | ND | | 1.0 | 0.49 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Benzo[a]anthracene | ND | | 0.20 | 0.047 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Atrazine | ND | | 0.50 | 0.44 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Benzo[a]pyrene | ND | | 0.070 | 0.057 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Benzo[b]fluoranthene | ND | | 0.20 | 0.066 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Benzidine | ND | | 10 | 2.0 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.20 | 0.056 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Benzo[k]fluoranthene | ND | | 0.20 | 0.048 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Benzoic acid | ND | | 15 | 7.1 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Benzyl alcohol | 0.17 | J | 1.0 | 0.14 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 1.0 | 0.060 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.0 | 0.090 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2,2'-oxybis[1-chloropropane] | ND | | 1.0 | 0.092 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 1.0 | 0.95 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Butyl benzyl phthalate | ND | | 1.0 | 0.44 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Carbazole | ND | | 1.0 | 0.083 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Chrysene | ND | | 0.20 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Di-n-butyl phthalate | ND | | 1.5 | 1.1 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Di-n-octyl phthalate | 0.14 | J B | 1.0 | 0.061 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.20 | 0.045 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Dibenzofuran | ND | | 1.0 | 0.075 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Diethyl phthalate | ND | | 1.5 | 1.5 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Dimethyl phthalate | ND | | 1.0 | 0.099 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Fluoranthene | ND | | 0.20 | 0.068 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Fluorene | ND | | 0.20 | 0.081 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Hexachlorobenzene | ND | | 5.0 | 0.49 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 3.5 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Hexachlorocyclopentadiene | ND | | 5.0 | 3.5 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Hexachloroethane | ND | | 5.0 | 3.3 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | ND | | 0.20 | 0.058 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Isophorone | ND | | 1.0 | 0.22 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.0 | 0.65 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| N-Nitrosodimethylamine | ND | | 1.0 | 0.29 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.0 | 0.32 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Naphthalene | ND | | 0.20 | 0.077 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Nitrobenzene | ND | | 1.0 | 0.66 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Pentachlorophenol | ND | | 0.33 | 0.33 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Phenanthrene | ND | | 0.20 | 0.061 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Phenol | ND | | 1.0 | 0.28 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Pyrene | ND | | 0.20 | 0.067 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Pyridine | ND | *+ | 10 | 2.6 | ug/L | | 09/02/25 06:57 | 09/04/25 18:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Phenol-d5 (Surr) | 31 | | 10 - 150 | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| Terphenyl-d14 (Surr) | 73 | | 28 - 150 | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 2,4,6-Tribromophenol (Surr) | 26 | | 10 - 150 | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 2-Fluorobiphenyl | 69 | | 25 - 139 | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| 2-Fluorophenol (Surr) | 13 | | 10 - 150 | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| Nitrobenzene-d5 (Surr) | 78 | | 22 - 150 | 09/04/25 13:40 | 09/05/25 18:16 | 1 |
| Phenol-d5 (Surr) | 58 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2,4,6-Tribromophenol (Surr) | 86 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| Nitrobenzene-d5 (Surr) | 133 | S1+ | 29 - 130 | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2-Fluorobiphenyl | 125 | | 20 - 130 | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| p-Terphenyl-d14 (Surr) | 93 | | 41 - 130 | 09/02/25 06:57 | 09/04/25 18:19 | 1 |
| 2-Fluorophenol (Surr) | 53 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 18:19 | 1 |

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND | | 0.0095 | 0.0076 | ug/L | | 09/05/25 16:11 | 09/06/25 17:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.019 | 0.0080 | ug/L | | 09/05/25 16:11 | 09/06/25 17:56 | 1 |

Method: SW846 8081B - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| 4,4'-DDD | ND | *1 | 0.10 | 0.085 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| 4,4'-DDE | ND | *1 | 0.10 | 0.037 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| 4,4'-DDT | ND | *1 | 0.10 | 0.075 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Aldrin | ND | *1 | 0.10 | 0.067 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| alpha-BHC | ND | *1 | 0.10 | 0.034 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| beta-BHC | ND | *1 | 0.15 | 0.11 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Chlordane | ND | | 1.0 | 0.50 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| delta-BHC | ND | *1 | 0.10 | 0.086 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Dieldrin | ND | *1 | 0.10 | 0.068 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Endosulfan I | ND | *1 | 0.10 | 0.035 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Endosulfan II | ND | *1 | 0.10 | 0.070 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Endosulfan sulfate | ND | *1 | 0.10 | 0.085 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Endrin | ND | *1 | 0.10 | 0.080 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Endrin aldehyde | ND | *1 | 0.10 | 0.072 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| gamma-BHC (Lindane) | ND | *1 | 0.10 | 0.066 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Heptachlor | ND | *1 | 0.10 | 0.070 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-------|------|---|-----------------|-----------------|----------------|
| Heptachlor epoxide | ND | *1 | 0.10 | 0.036 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Methoxychlor | ND | *1 | 0.10 | 0.092 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Toxaphene | ND | | 2.0 | 0.50 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Chlordane (technical) Peak 1 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Chlordane (technical) Peak 2 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Chlordane (technical) Peak 3 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Chlordane (technical) Peak 4 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Chlordane (technical) Peak 5 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Toxaphene Peak 1 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Toxaphene Peak 2 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Toxaphene Peak 3 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Toxaphene Peak 4 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Toxaphene Peak 5 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 95 | | 53 - 130 | | | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |
| Tetrachloro-m-xylene | 74 | | 18 - 130 | | | | 09/02/25 11:21 | 09/06/25 17:15 | 1 |

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| PCB-1016 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |
| PCB-1221 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |
| PCB-1232 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |
| PCB-1242 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |
| PCB-1248 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |
| PCB-1254 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |
| PCB-1260 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tetrachloro-m-xylene | 62 | | 15 - 137 | | | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |
| DCB Decachlorobiphenyl (Surr) | 70 | | 15 - 175 | | | | 09/02/25 11:21 | 09/09/25 00:54 | 1 |

Method: SW846 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 2,4,5-T | ND | *1 | 0.50 | 0.21 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| 2,4,5-TP (Silvex) | ND | | 0.50 | 0.13 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| 2,4-D | ND | | 5.0 | 1.9 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| 2,4-DB | ND | | 5.0 | 3.5 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| Dalapon | ND | | 12 | 4.7 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| Dicamba | ND | | 0.50 | 0.28 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| Dichlorprop | ND | | 5.0 | 1.9 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| Dinoseb | ND | | 2.5 | 2.2 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| MCPA | ND | *1 | 500 | 350 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| MCPP | ND | | 500 | 300 | ug/L | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4-Dichlorophenylacetic acid (Surr) | 65 | | 20 - 161 | | | | 09/03/25 14:06 | 09/10/25 20:44 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromide | 1.5 | | 1.0 | 0.50 | mg/L | | | 08/30/25 01:42 | 10 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| Nitrate | ND | | 1.0 | 0.20 | mg/L | | | 08/30/25 01:42 | 10 |
| Chloride | 1100 | | 50 | 25 | mg/L | | | 08/30/25 01:52 | 100 |
| Nitrite | ND | | 1.0 | 0.12 | mg/L | | | 08/30/25 01:42 | 10 |
| Fluoride | 0.51 | J | 1.0 | 0.46 | mg/L | | | 08/30/25 01:42 | 10 |
| Sulfate | 1900 | | 5.0 | 3.9 | mg/L | | | 08/30/25 01:42 | 10 |

Method: SW846 8330A - Nitroaromatics and Nitramines

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|-------------|-----------|-----|-------|------|---|----------------|----------------|---------|
| 1,3,5-Trinitrobenzene | ND | | 1.1 | 0.14 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 1,3-Dinitrobenzene | ND | | 1.1 | 0.14 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 2,4,6-Trinitrotoluene | ND | | 1.1 | 0.67 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.1 | 0.17 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.1 | 0.080 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 2-Amino-4,6-DNT | ND | | 1.1 | 0.088 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 2-Nitrotoluene | ND | | 1.1 | 0.071 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 3-Nitrotoluene | 0.11 | J | 1.1 | 0.099 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 4-Amino-2,6-DNT | ND | | 1.1 | 0.22 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| 4-Nitrotoluene | ND | | 1.1 | 0.17 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| HMX | 0.26 | J | 1.1 | 0.12 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| Nitrobenzene | ND | | 1.1 | 0.15 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| RDX | ND | | 1.1 | 0.11 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |
| Tetryl | ND | | 1.1 | 0.68 | ug/L | | 09/03/25 14:07 | 09/04/25 18:51 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dinitrobenzene (Surr) | 98 | | 60 - 150 | 09/03/25 14:07 | 09/04/25 18:51 | 1 |

Method: EPA 331.0 - Perchlorate (LC/MS/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-------------|-----------|------|-------|------|---|----------|----------------|---------|
| Perchlorate | 0.16 | J | 0.20 | 0.040 | ug/L | | | 09/09/25 15:39 | 2 |

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA) | 0.00052 | J | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluoroheptanoic acid (PFHpA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorooctanoic acid (PFOA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorononanoic acid (PFNA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorodecanoic acid (PFDA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluoroundecanoic acid (PFUnA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorododecanoic acid (PFDoA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorotetradecanoic acid (PFTA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|---------|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan
e-1-sulfonic acid (11Cl-PF3OUdS) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Hexafluoropropylene oxide dimer acid
(HFPO DA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid
(ADONA) | ND | | 0.0018 | 0.00046 | ug/L | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 13C2 PFHxA | 89 | | 70 - 130 | | | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| 13C2 PFDA | 92 | | 70 - 130 | | | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| d5-NEtFOSAA | 97 | | 70 - 130 | | | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |
| 13C3 HFPO-DA | 83 | | 70 - 130 | | | | 09/11/25 04:38 | 09/11/25 16:07 | 1 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|--------|--------|------|---|----------|----------------|---------|
| Aluminum | ND | | 0.020 | 0.017 | mg/L | | | 09/03/25 08:35 | 1 |
| Barium | 0.062 | | 0.030 | 0.018 | mg/L | | | 09/05/25 11:23 | 10 |
| Beryllium | ND | | 0.0020 | 0.0011 | mg/L | | | 09/03/25 08:35 | 1 |
| Boron | 1.7 | | 0.40 | 0.053 | mg/L | | | 09/03/25 08:37 | 10 |
| Cadmium | ND | | 0.0020 | 0.0017 | mg/L | | | 09/03/25 08:35 | 1 |
| Calcium | 720 | | 10 | 4.2 | mg/L | | | 09/03/25 08:37 | 10 |
| Chromium | ND | | 0.060 | 0.030 | mg/L | | | 09/05/25 11:23 | 10 |
| Cobalt | ND | | 0.060 | 0.033 | mg/L | | | 09/05/25 11:23 | 10 |
| Iron | ND | | 0.020 | 0.0093 | mg/L | | | 09/03/25 08:35 | 1 |
| Magnesium | 100 | | 10 | 0.64 | mg/L | | | 09/03/25 08:37 | 10 |
| Manganese | 0.063 | | 0.020 | 0.012 | mg/L | | | 09/05/25 11:23 | 10 |
| Molybdenum | 0.049 | | 0.0080 | 0.0063 | mg/L | | | 09/03/25 08:35 | 1 |
| Nickel | ND | | 0.10 | 0.040 | mg/L | | | 09/05/25 11:23 | 10 |
| Potassium | 29 | | 1.0 | 0.45 | mg/L | | | 09/03/25 08:35 | 1 |
| Sodium | 420 | | 10 | 2.5 | mg/L | | | 09/08/25 08:27 | 10 |
| Zinc | ND | | 0.10 | 0.075 | mg/L | | | 09/05/25 11:23 | 10 |
| Silver | 0.010 | | 0.0050 | 0.0015 | mg/L | | | 09/03/25 08:35 | 1 |

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|----------------|-----------|---------|----------|------|---|----------|----------------|---------|
| Antimony | 0.00055 | J | 0.0010 | 0.00028 | mg/L | | | 09/08/25 17:12 | 1 |
| Arsenic | 0.0011 | | 0.00050 | 0.00041 | mg/L | | | 09/08/25 17:12 | 1 |
| Copper | ND | | 0.00050 | 0.00030 | mg/L | | | 09/08/25 17:12 | 1 |
| Lead | ND | | 0.00050 | 0.00034 | mg/L | | | 09/08/25 17:12 | 1 |
| Selenium | 0.0023 | | 0.0010 | 0.00092 | mg/L | | | 09/08/25 17:12 | 1 |
| Cadmium | ND | | 0.00050 | 0.00018 | mg/L | | | 09/08/25 17:12 | 1 |
| Thallium | ND | | 0.00025 | 0.000036 | mg/L | | | 09/08/25 17:12 | 1 |
| Uranium | ND | ^+ | 0.00050 | 0.00019 | mg/L | | | 09/08/25 17:12 | 1 |

Method: EPA 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.00020 | 0.000080 | mg/L | | 09/02/25 12:53 | 09/03/25 10:10 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 4600 | E | 50 | 25 | mg/L | | | 09/03/25 16:34 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|--------|--------|----------|---|----------------|----------------|---------|
| Phenols, Total (EPA 420.4) | ND | | 0.0050 | 0.0020 | mg/L | | | 09/04/25 16:02 | 1 |
| Total Alkalinity as CaCO3 (SM 2320B) | 20 | | 20 | 20 | mg/L | | | 09/02/25 11:48 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | ND | | 20 | 20 | mg/L | | | 09/02/25 11:48 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | 17 | | 2.0 | 2.0 | mg/L | | | 09/02/25 11:48 | 1 |
| Specific Conductance (SM 2510B) | 5700 | | 10 | 10 | umhos/cm | | | 09/02/25 11:48 | 1 |
| Cyanide, Total (SM 4500 CN E) | ND | | 0.025 | 0.0093 | mg/L | | 09/03/25 13:36 | 09/03/25 16:19 | 1 |
| pH (SM 4500 H+ B) | 9.2 | HF | 0.1 | 0.1 | SU | | | 09/02/25 11:48 | 1 |

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|------------------|-----------------------|-----------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 1.03 | | 0.327 | 0.340 | 1.00 | 0.312 | pCi/L | 09/04/25 08:22 | 09/30/25 21:03 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.4 | | 30 - 110 | | | | | 09/04/25 08:22 | 09/30/25 21:03 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------|-----------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.753 | U | 0.546 | 0.550 | 1.00 | 0.831 | pCi/L | 09/04/25 08:27 | 09/30/25 16:14 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.4 | | 30 - 110 | | | | | 09/04/25 08:27 | 09/30/25 16:14 | 1 |
| Y Carrier | 86.0 | | 30 - 110 | | | | | 09/04/25 08:27 | 09/30/25 16:14 | 1 |

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-32182-3

Date Collected: 08/28/25 00:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.41 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2,3-Trichloropropane | ND | | 2.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.75 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 1-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 09/10/25 12:56 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | 0.25 | ug/L | | | 09/10/25 12:56 | 1 |
| 2-Butanone | ND | | 10 | 2.0 | ug/L | | | 09/10/25 12:56 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 2-Hexanone | ND | | 10 | 2.0 | ug/L | | | 09/10/25 12:56 | 1 |
| 2-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 09/10/25 12:56 | 1 |
| 4-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 1.0 | ug/L | | | 09/10/25 12:56 | 1 |
| Acetone | ND | | 10 | 2.5 | ug/L | | | 09/10/25 12:56 | 1 |
| Benzene | ND | | 1.0 | 0.15 | ug/L | | | 09/10/25 12:56 | 1 |
| Bromobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Acrolein | ND | | 10 | 3.3 | ug/L | | | 09/10/25 12:56 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Acrylonitrile | ND | | 10 | 0.75 | ug/L | | | 09/10/25 12:56 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:56 | 1 |
| Bromomethane | ND | | 3.0 | 2.0 | ug/L | | | 09/10/25 12:56 | 1 |
| Carbon disulfide | ND | | 10 | 0.40 | ug/L | | | 09/10/25 12:56 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.50 | ug/L | | | 09/10/25 12:56 | 1 |
| Chloroethane | ND | | 2.0 | 0.40 | ug/L | | | 09/10/25 12:56 | 1 |
| Chloroform | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:56 | 1 |
| Chloromethane | ND | | 3.0 | 1.0 | ug/L | | | 09/10/25 12:56 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:56 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Dibromomethane | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:56 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.50 | ug/L | | | 09/10/25 12:56 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-32182-3

Date Collected: 08/28/25 00:00

Matrix: Water

Date Received: 08/29/25 08:14

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Hexachlorobutadiene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:56 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Methyl-tert-butyl Ether (MTBE) | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:56 | 1 |
| Methylene Chloride | ND | | 2.5 | 1.0 | ug/L | | | 09/10/25 12:56 | 1 |
| n-Butylbenzene | ND | | 3.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Naphthalene | ND | | 2.0 | 0.50 | ug/L | | | 09/10/25 12:56 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Styrene | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:56 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:56 | 1 |
| Tetrachloroethene (PCE) | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Trichloroethene (TCE) | ND | | 1.0 | 0.30 | ug/L | | | 09/10/25 12:56 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.30 | ug/L | | | 09/10/25 12:56 | 1 |
| Xylenes, Total | ND | | 1.5 | 0.20 | ug/L | | | 09/10/25 12:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 130 | | 09/10/25 12:56 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | 09/10/25 12:56 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | 09/10/25 12:56 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 70 - 130 | | 09/10/25 12:56 | 1 |

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND | | 0.0093 | 0.0075 | ug/L | | 09/05/25 16:11 | 09/06/25 18:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.019 | 0.0079 | ug/L | | 09/05/25 16:11 | 09/06/25 18:10 | 1 |

Tracer/Carrier Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|--------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba
(30-110) | |
| 885-32182-1 | WDW-1MW-1-20250828 | 91.5 | |
| 885-32182-2 | DUP-20250828 | 94.4 | |
| LCS 160-734790/2-A | Lab Control Sample | 86.3 | |
| MB 160-734790/1-A | Method Blank | 88.3 | |
| Tracer/Carrier Legend | | | |
| Ba = Ba Carrier | | | |

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|--------------------|-----------------------------------|---------------|
| Lab Sample ID | Client Sample ID | Ba
(30-110) | Y
(30-110) |
| 885-32182-1 | WDW-1MW-1-20250828 | 91.5 | 86.4 |
| 885-32182-2 | DUP-20250828 | 94.4 | 86.0 |
| LCS 160-734791/2-A | Lab Control Sample | 86.3 | 81.9 |
| MB 160-734791/1-A | Method Blank | 88.3 | 83.4 |
| Tracer/Carrier Legend | | | |
| Ba = Ba Carrier | | | |
| Y = Y Carrier | | | |

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

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

Lab Sample ID: MB 885-34338/5
 Matrix: Water
 Analysis Batch: 34338

Client Sample ID: Method Blank
 Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.41 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2,3-Trichloropropane | ND | | 2.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.75 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 1-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 09/10/25 12:01 | 1 |
| 2,2-Dichloropropane | ND | | 2.0 | 0.25 | ug/L | | | 09/10/25 12:01 | 1 |
| 2-Butanone | ND | | 10 | 2.0 | ug/L | | | 09/10/25 12:01 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 2-Hexanone | ND | | 10 | 2.0 | ug/L | | | 09/10/25 12:01 | 1 |
| 2-Methylnaphthalene | ND | | 4.0 | 1.0 | ug/L | | | 09/10/25 12:01 | 1 |
| 4-Chlorotoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| 4-Methyl-2-pentanone | ND | | 10 | 1.0 | ug/L | | | 09/10/25 12:01 | 1 |
| Acetone | ND | | 10 | 2.5 | ug/L | | | 09/10/25 12:01 | 1 |
| Benzene | ND | | 1.0 | 0.15 | ug/L | | | 09/10/25 12:01 | 1 |
| Bromobenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:01 | 1 |
| Bromomethane | ND | | 3.0 | 2.0 | ug/L | | | 09/10/25 12:01 | 1 |
| Carbon disulfide | ND | | 10 | 0.40 | ug/L | | | 09/10/25 12:01 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.50 | ug/L | | | 09/10/25 12:01 | 1 |
| Chloroethane | ND | | 2.0 | 0.40 | ug/L | | | 09/10/25 12:01 | 1 |
| Chloroform | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:01 | 1 |
| Chloromethane | ND | | 3.0 | 1.0 | ug/L | | | 09/10/25 12:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Dibromomethane | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:01 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.50 | ug/L | | | 09/10/25 12:01 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:01 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

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

Lab Sample ID: MB 885-34338/5

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 34338

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Isopropylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Methyl-tert-butyl Ether (MTBE) | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:01 | 1 |
| Methylene Chloride | ND | | 2.5 | 1.0 | ug/L | | | 09/10/25 12:01 | 1 |
| n-Butylbenzene | ND | | 3.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Naphthalene | ND | | 2.0 | 0.50 | ug/L | | | 09/10/25 12:01 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Styrene | ND | | 1.0 | 0.25 | ug/L | | | 09/10/25 12:01 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 09/10/25 12:01 | 1 |
| Tetrachloroethene (PCE) | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Toluene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Trichloroethene (TCE) | ND | | 1.0 | 0.30 | ug/L | | | 09/10/25 12:01 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.30 | ug/L | | | 09/10/25 12:01 | 1 |
| Xylenes, Total | ND | | 1.5 | 0.20 | ug/L | | | 09/10/25 12:01 | 1 |
| Acrylonitrile | ND | | 10 | 0.75 | ug/L | | | 09/10/25 12:01 | 1 |
| Acrolein | ND | | 10 | 3.3 | ug/L | | | 09/10/25 12:01 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 70 - 130 | | 09/10/25 12:01 | 1 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | 09/10/25 12:01 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | 09/10/25 12:01 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 70 - 130 | | 09/10/25 12:01 | 1 |

Lab Sample ID: LCS 885-34338/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 34338

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Benzene | 20.0 | 21.5 | | ug/L | | 107 | 70 - 130 |
| Chlorobenzene | 20.0 | 21.7 | | ug/L | | 108 | 70 - 130 |
| Toluene | 20.0 | 21.6 | | ug/L | | 108 | 70 - 130 |
| Trichloroethene (TCE) | 20.0 | 18.8 | | ug/L | | 94 | 70 - 130 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 101 | | 70 - 130 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS/MS)

Lab Sample ID: MB 400-721936/1-A
Matrix: Water
Analysis Batch: 722042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721936

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Prometon | ND | | 1.0 | 0.22 | ug/L | | 09/04/25 13:39 | 09/05/25 13:15 | 1 |

Lab Sample ID: LCS 400-721936/4-A
Matrix: Water
Analysis Batch: 722040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721936

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Prometon | 33.3 | 28.0 | | ug/L | | 84 | 40 - 140 |

Lab Sample ID: LCSD 400-721936/5-A
Matrix: Water
Analysis Batch: 722040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721936

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Prometon | 33.3 | 34.3 | | ug/L | | 103 | 40 - 140 | 20 | 50 |

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 885-33674/1-A
Matrix: Water
Analysis Batch: 33850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33674

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.078 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.087 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.090 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.0 | 0.082 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 1,4-Dioxane | ND | | 0.50 | 0.23 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 1-Methylnaphthalene | ND | | 0.20 | 0.097 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,4,5-Trichlorophenol | ND | | 1.0 | 0.075 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,4,6-Trichlorophenol | ND | | 1.0 | 0.082 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,4-Dichlorophenol | ND | | 1.0 | 0.072 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,4-Dimethylphenol | ND | | 1.0 | 0.099 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,4-Dinitrophenol | ND | | 3.0 | 1.4 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.0 | 0.078 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.0 | 0.51 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2-Chloronaphthalene | ND | | 1.0 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2-Chlorophenol | ND | | 1.0 | 0.31 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2-Methylnaphthalene | ND | | 0.20 | 0.087 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2-Methylphenol | ND | | 1.0 | 0.063 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2-Nitroaniline | ND | | 1.0 | 0.38 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2-Nitrophenol | ND | | 1.0 | 0.079 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 3 & 4 Methylphenol | ND | | 1.0 | 0.066 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 1.0 | 0.63 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 3-Nitroaniline | ND | | 1.0 | 0.36 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2.0 | 1.2 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 1.0 | 0.077 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 4-Chloro-3-methylphenol | ND | | 1.0 | 0.12 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 4-Chloroaniline | ND | | 1.0 | 0.33 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 885-33674/1-A

Matrix: Water

Analysis Batch: 33850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33674

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | | 1.0 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 4-Nitroaniline | ND | | 1.0 | 0.50 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 4-Nitrophenol | ND | | 1.0 | 0.64 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Acenaphthene | ND | | 0.20 | 0.085 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Acenaphthylene | ND | | 0.20 | 0.064 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Aniline | ND | | 10 | 1.7 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Anthracene | ND | | 0.20 | 0.056 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Azobenzene | ND | | 1.0 | 0.49 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Benzo[a]anthracene | ND | | 0.20 | 0.047 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Atrazine | ND | | 0.50 | 0.44 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Benzo[a]pyrene | ND | | 0.070 | 0.057 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Benzo[b]fluoranthene | ND | | 0.20 | 0.066 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Benzidine | ND | | 10 | 2.0 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.20 | 0.056 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Benzo[k]fluoranthene | ND | | 0.20 | 0.048 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Benzoic acid | ND | | 15 | 7.1 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Benzyl alcohol | ND | | 1.0 | 0.14 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 1.0 | 0.060 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.0 | 0.090 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,2'-oxybis[1-chloropropane] | ND | | 1.0 | 0.092 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 1.0 | 0.95 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Butyl benzyl phthalate | 0.774 | J | 1.0 | 0.44 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Carbazole | ND | | 1.0 | 0.083 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Chrysene | ND | | 0.20 | 0.062 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Di-n-butyl phthalate | ND | | 1.5 | 1.1 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Di-n-octyl phthalate | 0.202 | J | 1.0 | 0.061 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.20 | 0.045 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Dibenzofuran | ND | | 1.0 | 0.075 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Diethyl phthalate | ND | | 1.5 | 1.5 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Dimethyl phthalate | ND | | 1.0 | 0.099 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Fluoranthene | ND | | 0.20 | 0.068 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Fluorene | ND | | 0.20 | 0.081 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Hexachlorobenzene | ND | | 5.0 | 0.49 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 3.5 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Hexachlorocyclopentadiene | ND | | 5.0 | 3.5 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Hexachloroethane | ND | | 5.0 | 3.3 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.20 | 0.058 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Isophorone | ND | | 1.0 | 0.22 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.0 | 0.65 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| N-Nitrosodimethylamine | ND | | 1.0 | 0.29 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| N-Nitrosodiphenylamine | ND | | 1.0 | 0.32 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Naphthalene | ND | | 0.20 | 0.077 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Nitrobenzene | ND | | 1.0 | 0.66 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Pentachlorophenol | ND | | 0.33 | 0.33 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Phenanthrene | ND | | 0.20 | 0.061 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Phenol | 0.347 | J | 1.0 | 0.28 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Pyrene | ND | | 0.20 | 0.067 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Pyridine | ND | | 10 | 2.6 | ug/L | | 09/02/25 06:57 | 09/04/25 11:30 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 885-33674/1-A
Matrix: Water
Analysis Batch: 33850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33674

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| Phenol-d5 (Surr) | 76 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2,4,6-Tribromophenol (Surr) | 113 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| Nitrobenzene-d5 (Surr) | 130 | | 29 - 130 | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2-Fluorobiphenyl | 130 | | 20 - 130 | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| p-Terphenyl-d14 (Surr) | 122 | | 41 - 130 | 09/02/25 06:57 | 09/04/25 11:30 | 1 |
| 2-Fluorophenol (Surr) | 75 | | 15 - 130 | 09/02/25 06:57 | 09/04/25 11:30 | 1 |

Lab Sample ID: LCS 885-33674/2-A
Matrix: Water
Analysis Batch: 33850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33674

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| 1,2-Dichlorobenzene | 5.71 | 5.41 | | ug/L | | 95 | 26 - 108 |
| 1,3-Dichlorobenzene | 5.71 | 5.13 | | ug/L | | 90 | 17 - 108 |
| 1,4-Dichlorobenzene | 5.71 | 5.34 | | ug/L | | 94 | 16 - 108 |
| 1,4-Dioxane | 5.71 | 2.40 | | ug/L | | 42 | 30 - 49 |
| 1-Methylnaphthalene | 5.71 | 5.27 | | ug/L | | 92 | 35 - 118 |
| 2,4,5-Trichlorophenol | 5.71 | 4.86 | | ug/L | | 85 | 58 - 118 |
| 2,4,6-Trichlorophenol | 5.71 | 4.07 | | ug/L | | 71 | 44 - 104 |
| 2,4-Dichlorophenol | 5.71 | 5.29 | | ug/L | | 93 | 66 - 116 |
| 2,4-Dimethylphenol | 5.71 | 5.72 | | ug/L | | 100 | 70 - 130 |
| 2,4-Dinitrophenol | 5.71 | 3.43 | | ug/L | | 60 | 23 - 87 |
| 2,4-Dinitrotoluene | 5.71 | 6.57 | | ug/L | | 115 | 67 - 142 |
| 2,6-Dinitrotoluene | 5.71 | 6.03 | | ug/L | | 106 | 70 - 130 |
| 2-Chloronaphthalene | 5.71 | 5.23 | | ug/L | | 91 | 48 - 113 |
| 2-Chlorophenol | 5.71 | 5.29 | | ug/L | | 93 | 67 - 116 |
| 2-Methylnaphthalene | 5.71 | 5.14 | | ug/L | | 90 | 32 - 114 |
| 2-Methylphenol | 5.71 | 5.65 | | ug/L | | 99 | 70 - 130 |
| 2-Nitroaniline | 5.71 | 6.36 | | ug/L | | 111 | 70 - 135 |
| 2-Nitrophenol | 5.71 | 5.43 | | ug/L | | 95 | 54 - 127 |
| 3 & 4 Methylphenol | 5.71 | 5.61 | | ug/L | | 98 | 67 - 113 |
| 3,3'-Dichlorobenzidine | 17.1 | 17.0 | | ug/L | | 99 | 38 - 127 |
| 3-Nitroaniline | 5.71 | 4.57 | | ug/L | | 80 | 35 - 94 |
| 4,6-Dinitro-2-methylphenol | 5.71 | 4.13 | | ug/L | | 72 | 29 - 84 |
| 4-Bromophenyl phenyl ether | 5.71 | 5.52 | | ug/L | | 97 | 70 - 130 |
| 4-Chloro-3-methylphenol | 5.71 | 6.04 | | ug/L | | 106 | 70 - 130 |
| 4-Chloroaniline | 5.71 | 3.10 | | ug/L | | 54 | 35 - 65 |
| 4-Chlorophenyl phenyl ether | 5.71 | 5.29 | | ug/L | | 93 | 61 - 118 |
| 4-Nitroaniline | 5.71 | 5.73 | | ug/L | | 100 | 43 - 125 |
| 4-Nitrophenol | 5.71 | 1.99 | | ug/L | | 35 | 14 - 47 |
| Acenaphthene | 5.71 | 5.36 | | ug/L | | 94 | 54 - 122 |
| Acenaphthylene | 5.71 | 4.84 | | ug/L | | 85 | 63 - 113 |
| Aniline | 17.1 | 8.84 | J | ug/L | | 52 | 10 - 85 |
| Anthracene | 5.71 | 6.16 | | ug/L | | 108 | 70 - 130 |
| Azobenzene | 5.71 | 5.34 | | ug/L | | 93 | 40 - 127 |
| Benzo[a]anthracene | 5.71 | 6.48 | | ug/L | | 113 | 65 - 132 |
| Atrazine | 5.71 | 6.11 | | ug/L | | 107 | 69 - 127 |

Eurofins Albuquerque

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 885-33674/2-A

Matrix: Water

Analysis Batch: 33850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33674

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|-------------|------------|----------------|------|---|------|-------------|
| | | | | | | | |
| Benzo[a]pyrene | 5.71 | 6.21 | | ug/L | | 109 | 52 - 150 |
| Benzo[b]fluoranthene | 5.71 | 6.17 | | ug/L | | 108 | 64 - 137 |
| Benzidine | 17.1 | 9.96 | J | ug/L | | 58 | 10 - 114 |
| Benzo[g,h,i]perylene | 5.71 | 5.76 | | ug/L | | 101 | 46 - 150 |
| Benzo[k]fluoranthene | 5.71 | 5.92 | | ug/L | | 104 | 63 - 136 |
| Benzoic acid | 42.9 | 13.3 | J | ug/L | | 31 | 10 - 61 |
| Benzyl alcohol | 5.71 | 4.48 | | ug/L | | 78 | 52 - 100 |
| Bis(2-chloroethoxy)methane | 5.71 | 5.67 | | ug/L | | 99 | 70 - 130 |
| Bis(2-chloroethyl)ether | 5.71 | 6.04 | | ug/L | | 106 | 70 - 130 |
| 2,2'-oxybis[1-chloropropane] | 5.71 | 5.90 | | ug/L | | 103 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | 5.71 | 6.42 | | ug/L | | 112 | 45 - 139 |
| Butyl benzyl phthalate | 5.71 | 7.64 | | ug/L | | 134 | 63 - 137 |
| Carbazole | 5.71 | 6.12 | | ug/L | | 107 | 70 - 130 |
| Chrysene | 5.71 | 6.43 | | ug/L | | 113 | 68 - 139 |
| Di-n-butyl phthalate | 5.71 | 6.59 | | ug/L | | 115 | 68 - 135 |
| Di-n-octyl phthalate | 5.71 | 6.80 | | ug/L | | 119 | 49 - 123 |
| Dibenz(a,h)anthracene | 5.71 | 5.86 | | ug/L | | 103 | 44 - 155 |
| Dibenzofuran | 5.71 | 5.44 | | ug/L | | 95 | 66 - 121 |
| Diethyl phthalate | 5.71 | 6.23 | | ug/L | | 109 | 68 - 130 |
| Dimethyl phthalate | 5.71 | 5.64 | | ug/L | | 99 | 70 - 130 |
| Fluoranthene | 5.71 | 6.62 | | ug/L | | 116 | 70 - 130 |
| Fluorene | 5.71 | 4.94 | | ug/L | | 86 | 61 - 128 |
| Hexachlorobenzene | 5.71 | 5.44 | | ug/L | | 95 | 63 - 126 |
| Hexachlorobutadiene | 5.71 | ND | | ug/L | | 50 | 10 - 97 |
| Hexachlorocyclopentadiene | 5.71 | 3.57 | J | ug/L | | 62 | 10 - 81 |
| Hexachloroethane | 5.71 | 4.19 | J | ug/L | | 73 | 10 - 99 |
| Indeno[1,2,3-cd]pyrene | 5.71 | 6.01 | | ug/L | | 105 | 50 - 147 |
| Isophorone | 5.71 | 5.82 | | ug/L | | 102 | 70 - 130 |
| N-Nitrosodi-n-propylamine | 5.71 | 6.51 | | ug/L | | 114 | 70 - 130 |
| N-Nitrosodimethylamine | 5.71 | 2.03 | | ug/L | | 36 | 22 - 44 |
| N-Nitrosodiphenylamine | 5.71 | 5.38 | | ug/L | | 94 | 70 - 130 |
| Naphthalene | 5.71 | 5.47 | | ug/L | | 96 | 42 - 112 |
| Nitrobenzene | 5.71 | 6.22 | | ug/L | | 109 | 74 - 145 |
| Pentachlorophenol | 5.71 | 3.93 | | ug/L | | 69 | 41 - 102 |
| Phenanthrene | 5.71 | 5.58 | | ug/L | | 98 | 70 - 130 |
| Phenol | 5.71 | 3.76 | | ug/L | | 66 | 41 - 80 |
| Pyrene | 5.71 | 6.45 | | ug/L | | 113 | 60 - 134 |
| Pyridine | 17.1 | 8.84 | J ⁺ | ug/L | | 52 | 14 - 48 |

| Surrogate | LCS LCS | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Phenol-d5 (Surr) | 64 | | 15 - 130 |
| 2,4,6-Tribromophenol (Surr) | 104 | | 15 - 130 |
| Nitrobenzene-d5 (Surr) | 134 | S1+ | 29 - 130 |
| 2-Fluorobiphenyl | 111 | | 20 - 130 |
| p-Terphenyl-d14 (Surr) | 124 | | 41 - 130 |
| 2-Fluorophenol (Surr) | 62 | | 15 - 130 |

Eurofins Albuquerque

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 400-721936/1-A

Matrix: Water

Analysis Batch: 722040

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 721936

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|--------------|----|------|------|---|----------------|----------------|---------|
| N-Nitrosodi-n-butylamine | ND | | 10 | 1.1 | ug/L | | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| Pentachlorobenzene | ND | | 10 | 0.34 | ug/L | | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | 10 | 0.36 | ug/L | | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| N-Nitrosodiethylamine | ND | | 10 | 0.54 | ug/L | | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| Sulfolane | ND | | 10 | 0.80 | ug/L | | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| N-Nitrosopyrrolidine | ND | | 10 | 0.79 | ug/L | | 09/04/25 13:39 | 09/05/25 13:15 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Phenol-d5 (Surr) | 39 | | 10 - 150 | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| Terphenyl-d14 (Surr) | 81 | | 28 - 150 | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| 2,4,6-Tribromophenol (Surr) | 71 | | 10 - 150 | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| 2-Fluorobiphenyl | 68 | | 25 - 139 | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| 2-Fluorophenol (Surr) | 48 | | 10 - 150 | 09/04/25 13:39 | 09/05/25 13:15 | 1 |
| Nitrobenzene-d5 (Surr) | 84 | | 22 - 150 | 09/04/25 13:39 | 09/05/25 13:15 | 1 |

Lab Sample ID: LCS 400-721936/2-A

Matrix: Water

Analysis Batch: 722040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 721936

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
| N-Nitrosodi-n-butylamine | 33.3 | 32.8 | | ug/L | | 99 | 50 - 150 |
| Pentachlorobenzene | 33.3 | 23.0 | | ug/L | | 69 | 20 - 150 |
| 1,2,4,5-Tetrachlorobenzene | 33.3 | 21.5 | | ug/L | | 65 | 19 - 120 |
| N-Nitrosodiethylamine | 33.3 | 23.3 | | ug/L | | 70 | 50 - 150 |
| Sulfolane | 67.4 | 20.3 | | ug/L | | 30 | 10 - 142 |
| N-Nitrosopyrrolidine | 33.3 | 18.5 | | ug/L | | 56 | 50 - 150 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| Phenol-d5 (Surr) | 39 | | 10 - 150 |
| Terphenyl-d14 (Surr) | 67 | | 28 - 150 |
| 2,4,6-Tribromophenol (Surr) | 68 | | 10 - 150 |
| 2-Fluorobiphenyl | 60 | | 25 - 139 |
| 2-Fluorophenol (Surr) | 45 | | 10 - 150 |
| Nitrobenzene-d5 (Surr) | 69 | | 22 - 150 |

Lab Sample ID: LCSD 400-721936/3-A

Matrix: Water

Analysis Batch: 722040

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 721936

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| N-Nitrosodi-n-butylamine | 33.3 | 32.5 | | ug/L | | 98 | 50 - 150 | 1 | 40 |
| Pentachlorobenzene | 33.3 | 21.9 | | ug/L | | 66 | 20 - 150 | 5 | 40 |
| 1,2,4,5-Tetrachlorobenzene | 33.3 | 16.0 | | ug/L | | 48 | 19 - 120 | 29 | 40 |
| N-Nitrosodiethylamine | 33.3 | 24.6 | | ug/L | | 74 | 50 - 150 | 5 | 40 |
| Sulfolane | 67.4 | 18.9 | | ug/L | | 28 | 10 - 142 | 7 | 40 |
| N-Nitrosopyrrolidine | 33.3 | 18.7 | | ug/L | | 56 | 50 - 150 | 1 | 40 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 400-721936/3-A
Matrix: Water
Analysis Batch: 722040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721936

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| Phenol-d5 (Surr) | 40 | | 10 - 150 |
| Terphenyl-d14 (Surr) | 67 | | 28 - 150 |
| 2,4,6-Tribromophenol (Surr) | 70 | | 10 - 150 |
| 2-Fluorobiphenyl | 60 | | 25 - 139 |
| 2-Fluorophenol (Surr) | 48 | | 10 - 150 |
| Nitrobenzene-d5 (Surr) | 76 | | 22 - 150 |

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-34010/3-A
Matrix: Water
Analysis Batch: 34030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34010

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND | | 0.010 | 0.0080 | ug/L | | 09/05/25 16:11 | 09/06/25 16:29 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.020 | 0.0085 | ug/L | | 09/05/25 16:11 | 09/06/25 16:29 | 1 |

Lab Sample ID: LCS 885-34010/4-A
Matrix: Water
Analysis Batch: 34030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34010

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Ethylene Dibromide | 0.100 | 0.0976 | | ug/L | | 98 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 0.100 | 0.100 | | ug/L | | 100 | 70 - 130 |

Lab Sample ID: LCSD 885-34010/5-A
Matrix: Water
Analysis Batch: 34030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34010

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Ethylene Dibromide | 0.100 | 0.0979 | | ug/L | | 98 | 70 - 130 | 0 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.100 | 0.100 | | ug/L | | 100 | 70 - 130 | 0 | 20 |

Lab Sample ID: MRL 885-34010/1-A
Matrix: Water
Analysis Batch: 34030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34010

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Ethylene Dibromide | 0.0100 | ND | | ug/L | | 79 | 60 - 140 |
| 1,2-Dibromo-3-Chloropropane | 0.0100 | 0.00938 | J | ug/L | | 94 | 60 - 140 |

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 885-33697/1-A
Matrix: Water
Analysis Batch: 34033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33697

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| 4,4'-DDD | ND | | 0.10 | 0.085 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| 4,4'-DDE | ND | | 0.10 | 0.037 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 885-33697/1-A

Matrix: Water

Analysis Batch: 34033

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33697

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 4,4'-DDT | ND | | 0.10 | 0.075 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Aldrin | ND | | 0.10 | 0.067 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| alpha-BHC | ND | | 0.10 | 0.034 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| beta-BHC | ND | | 0.15 | 0.11 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Chlordane | ND | | 1.0 | 0.50 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| delta-BHC | ND | | 0.10 | 0.086 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Dieldrin | ND | | 0.10 | 0.068 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Endosulfan I | ND | | 0.10 | 0.035 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Endosulfan II | ND | | 0.10 | 0.070 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Endosulfan sulfate | ND | | 0.10 | 0.085 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Endrin | ND | | 0.10 | 0.080 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Endrin aldehyde | ND | | 0.10 | 0.072 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| gamma-BHC (Lindane) | ND | | 0.10 | 0.066 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Heptachlor | ND | | 0.10 | 0.070 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Heptachlor epoxide | ND | | 0.10 | 0.036 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Methoxychlor | ND | | 0.10 | 0.092 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Toxaphene | ND | | 2.0 | 0.50 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Chlordane (technical) Peak 1 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Chlordane (technical) Peak 2 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Chlordane (technical) Peak 3 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Chlordane (technical) Peak 4 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Chlordane (technical) Peak 5 | ND | | 1.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Toxaphene Peak 1 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Toxaphene Peak 2 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Toxaphene Peak 3 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Toxaphene Peak 4 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Toxaphene Peak 5 | ND | | 2.0 | 0.10 | ug/L | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Surrogate | MB | MB | Limits | | | D | Prepared | Analyzed | Dil Fac |
| | %Recovery | Qualifier | | | | | | | |
| DCB Decachlorobiphenyl (Surr) | 87 | | 53 - 130 | | | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |
| Tetrachloro-m-xylene | 53 | | 18 - 130 | | | | 09/02/25 11:21 | 09/06/25 16:23 | 1 |

Lab Sample ID: LCS 885-33697/2-A

Matrix: Water

Analysis Batch: 34033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33697

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| 4,4'-DDE | 0.500 | 0.243 | | ug/L | | 49 | 38 - 134 |
| 4,4'-DDT | 0.500 | 0.228 | | ug/L | | 46 | 38 - 137 |
| Aldrin | 0.500 | 0.181 | | ug/L | | 36 | 15 - 130 |
| alpha-BHC | 0.500 | 0.256 | | ug/L | | 51 | 34 - 130 |
| beta-BHC | 0.500 | 0.249 | | ug/L | | 50 | 38 - 140 |
| delta-BHC | 0.500 | 0.247 | | ug/L | | 49 | 28 - 136 |
| Dieldrin | 0.500 | 0.255 | | ug/L | | 51 | 43 - 130 |
| Endosulfan I | 0.500 | 0.230 | | ug/L | | 46 | 42 - 130 |
| Endosulfan II | 0.500 | 0.242 | | ug/L | | 48 | 46 - 132 |
| Endosulfan sulfate | 0.500 | 0.245 | | ug/L | | 49 | 42 - 133 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 885-33697/2-A

Matrix: Water

Analysis Batch: 34033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33697

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
| Endrin | 0.500 | 0.255 | | ug/L | | 51 | 38 - 144 |
| Endrin aldehyde | 0.500 | 0.227 | | ug/L | | 45 | 44 - 134 |
| gamma-BHC (Lindane) | 0.500 | 0.251 | | ug/L | | 50 | 35 - 130 |
| Heptachlor | 0.500 | 0.216 | | ug/L | | 43 | 17 - 130 |
| Heptachlor epoxide | 0.500 | 0.241 | | ug/L | | 48 | 43 - 130 |
| Methoxychlor | 0.500 | 0.225 | | ug/L | | 45 | 39 - 143 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------------------------|---------------|---------------|----------|
| DCB Decachlorobiphenyl (Surr) | 65 | | 53 - 130 |
| Tetrachloro-m-xylene | 49 | | 18 - 130 |

Lab Sample ID: LCSD 885-33697/3-A

Matrix: Water

Analysis Batch: 34033

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33697

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-------|
| 4,4'-DDD | 0.500 | 0.341 | *1 | ug/L | | 68 | 42 - 141 | 37 | 20 |
| 4,4'-DDE | 0.500 | 0.354 | *1 | ug/L | | 71 | 38 - 134 | 37 | 20 |
| 4,4'-DDT | 0.500 | 0.328 | *1 | ug/L | | 66 | 38 - 137 | 36 | 20 |
| Aldrin | 0.500 | 0.281 | *1 | ug/L | | 56 | 15 - 130 | 43 | 20 |
| alpha-BHC | 0.500 | 0.355 | *1 | ug/L | | 71 | 34 - 130 | 32 | 20 |
| beta-BHC | 0.500 | 0.348 | *1 | ug/L | | 70 | 38 - 140 | 33 | 20 |
| delta-BHC | 0.500 | 0.345 | *1 | ug/L | | 69 | 28 - 136 | 33 | 20 |
| Dieldrin | 0.500 | 0.363 | *1 | ug/L | | 73 | 43 - 130 | 35 | 20 |
| Endosulfan I | 0.500 | 0.328 | *1 | ug/L | | 66 | 42 - 130 | 35 | 20 |
| Endosulfan II | 0.500 | 0.344 | *1 | ug/L | | 69 | 46 - 132 | 35 | 20 |
| Endosulfan sulfate | 0.500 | 0.350 | *1 | ug/L | | 70 | 42 - 133 | 36 | 20 |
| Endrin | 0.500 | 0.366 | *1 | ug/L | | 73 | 38 - 144 | 36 | 20 |
| Endrin aldehyde | 0.500 | 0.322 | *1 | ug/L | | 64 | 44 - 134 | 35 | 20 |
| gamma-BHC (Lindane) | 0.500 | 0.352 | *1 | ug/L | | 70 | 35 - 130 | 34 | 20 |
| Heptachlor | 0.500 | 0.315 | *1 | ug/L | | 63 | 17 - 130 | 37 | 20 |
| Heptachlor epoxide | 0.500 | 0.343 | *1 | ug/L | | 69 | 43 - 130 | 35 | 20 |
| Methoxychlor | 0.500 | 0.324 | *1 | ug/L | | 65 | 39 - 143 | 36 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-------------------------------|----------------|----------------|----------|
| DCB Decachlorobiphenyl (Surr) | 93 | | 53 - 130 |
| Tetrachloro-m-xylene | 76 | | 18 - 130 |

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 885-33697/1-A

Matrix: Water

Analysis Batch: 34204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33697

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/08/25 21:54 | 1 |
| PCB-1221 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/08/25 21:54 | 1 |
| PCB-1232 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/08/25 21:54 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 885-33697/1-A
Matrix: Water
Analysis Batch: 34204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33697

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| PCB-1242 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/08/25 21:54 | 1 |
| PCB-1248 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/08/25 21:54 | 1 |
| PCB-1254 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/08/25 21:54 | 1 |
| PCB-1260 | ND | | 0.25 | 0.25 | ug/L | | 09/02/25 11:21 | 09/08/25 21:54 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| Tetrachloro-m-xylene | 44 | | 15 - 137 | 09/02/25 11:21 | 09/08/25 21:54 | 1 |
| DCB Decachlorobiphenyl (Surr) | 51 | | 15 - 175 | 09/02/25 11:21 | 09/08/25 21:54 | 1 |

Lab Sample ID: LCS 885-33697/4-A
Matrix: Water
Analysis Batch: 34204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33697

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | %Rec Limits |
|----------|-------------|---------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| PCB-1016 | 5.00 | 3.58 | | ug/L | | 72 | 17 - 111 |
| PCB-1260 | 5.00 | 4.27 | | ug/L | | 85 | 24 - 148 |

| Surrogate | LCS LCS | | Limits |
|-------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Tetrachloro-m-xylene | 66 | | 15 - 137 |
| DCB Decachlorobiphenyl (Surr) | 70 | | 15 - 175 |

Lab Sample ID: LCSD 885-33697/5-A
Matrix: Water
Analysis Batch: 34204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33697

| Analyte | Spike Added | LCSD LCSD | | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-----------|-----------|------|---|------|-------------|-----|-----------|
| | | Result | Qualifier | | | | | | |
| PCB-1016 | 5.00 | 3.72 | | ug/L | | 74 | 17 - 111 | 4 | 20 |
| PCB-1260 | 5.00 | 4.41 | | ug/L | | 88 | 24 - 148 | 3 | 20 |

| Surrogate | LCSD LCSD | | Limits |
|-------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Tetrachloro-m-xylene | 65 | | 15 - 137 |
| DCB Decachlorobiphenyl (Surr) | 71 | | 15 - 175 |

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-619939/1-A
Matrix: Water
Analysis Batch: 623301

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619939

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 2,4,5-T | ND | | 0.50 | 0.21 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| 2,4,5-TP (Silvex) | ND | | 0.50 | 0.14 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| 2,4-D | ND | | 5.0 | 2.0 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| 2,4-DB | ND | | 5.0 | 3.5 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| Dalapon | ND | | 13 | 4.7 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| Dicamba | ND | | 0.50 | 0.29 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| Dichlorprop | ND | | 5.0 | 2.0 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| Dinoseb | ND | | 2.5 | 2.2 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 570-619939/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623301

Prep Batch: 619939

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|--------------|----------|-----|------|---|----------------|----------------|---------|
| MCPA | ND | | 500 | 350 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| MCPP | ND | | 500 | 310 | ug/L | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4-Dichlorophenylacetic acid (Surr) | 46 | | 20 - 161 | | | | 09/02/25 16:49 | 09/10/25 13:56 | 1 |

Lab Sample ID: LCS 570-619939/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623301

Prep Batch: 619939

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|---------------|---------------|------|---|------|-------------|
| 2,4,5-T | 1.00 | 0.809 | | ug/L | | 81 | 28 - 180 |
| 2,4-D | 10.0 | 7.32 | | ug/L | | 73 | 10 - 180 |
| 2,4-DB | 10.0 | 5.91 | | ug/L | | 59 | 10 - 180 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 2,4-Dichlorophenylacetic acid (Surr) | 65 | | 20 - 161 | | | | |

Lab Sample ID: LCSD 570-619939/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623301

Prep Batch: 619939

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|------|---|------|-------------|-----|-----------|
| 2,4,5-T | 1.00 | 0.629 | p *1 | ug/L | | 63 | 28 - 180 | 53 | 20 |
| 2,4-D | 10.0 | 7.14 | | ug/L | | 71 | 10 - 180 | 2 | 20 |
| 2,4-DB | 10.0 | 7.06 | | ug/L | | 71 | 10 - 180 | 18 | 20 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | |
| 2,4-Dichlorophenylacetic acid (Surr) | 66 | | 20 - 161 | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-33563/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 33563

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Bromide | ND | | 0.10 | 0.050 | mg/L | | | 08/29/25 11:23 | 1 |
| Chloride | ND | | 0.50 | 0.25 | mg/L | | | 08/29/25 11:23 | 1 |
| Fluoride | ND | | 0.10 | 0.046 | mg/L | | | 08/29/25 11:23 | 1 |
| Sulfate | ND | | 0.50 | 0.39 | mg/L | | | 08/29/25 11:23 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-33563/58
Matrix: Water
Analysis Batch: 33563

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Bromide | ND | | 0.10 | 0.050 | mg/L | | | 08/29/25 20:27 | 1 |
| Chloride | ND | | 0.50 | 0.25 | mg/L | | | 08/29/25 20:27 | 1 |
| Fluoride | ND | | 0.10 | 0.046 | mg/L | | | 08/29/25 20:27 | 1 |
| Sulfate | ND | | 0.50 | 0.39 | mg/L | | | 08/29/25 20:27 | 1 |

Lab Sample ID: LCS 885-33563/5
Matrix: Water
Analysis Batch: 33563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Bromide | 2.50 | 2.42 | | mg/L | | 97 | 90 - 110 |
| Chloride | 5.00 | 4.99 | | mg/L | | 100 | 90 - 110 |
| Fluoride | 0.500 | 0.529 | | mg/L | | 106 | 90 - 110 |
| Sulfate | 10.0 | 9.77 | | mg/L | | 98 | 90 - 110 |

Lab Sample ID: LCS 885-33563/59
Matrix: Water
Analysis Batch: 33563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Bromide | 2.50 | 2.44 | | mg/L | | 98 | 90 - 110 |
| Chloride | 5.00 | 5.05 | | mg/L | | 101 | 90 - 110 |
| Fluoride | 0.500 | 0.534 | | mg/L | | 107 | 90 - 110 |
| Sulfate | 10.0 | 9.88 | | mg/L | | 99 | 90 - 110 |

Lab Sample ID: MRL 885-33563/3
Matrix: Water
Analysis Batch: 33563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Bromide | 0.100 | 0.102 | | mg/L | | 102 | 50 - 150 |
| Chloride | 0.500 | 0.529 | | mg/L | | 106 | 50 - 150 |
| Fluoride | 0.100 | 0.121 | | mg/L | | 121 | 50 - 150 |
| Sulfate | 0.500 | 0.517 | | mg/L | | 103 | 50 - 150 |

Lab Sample ID: MB 885-33580/4
Matrix: Water
Analysis Batch: 33580

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Nitrate | ND | | 0.10 | 0.020 | mg/L | | | 08/29/25 11:23 | 1 |
| Nitrite | ND | | 0.10 | 0.012 | mg/L | | | 08/29/25 11:23 | 1 |

Lab Sample ID: MB 885-33580/58
Matrix: Water
Analysis Batch: 33580

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Nitrate | ND | | 0.10 | 0.020 | mg/L | | | 08/29/25 20:27 | 1 |
| Nitrite | ND | | 0.10 | 0.012 | mg/L | | | 08/29/25 20:27 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 885-33580/5
Matrix: Water
Analysis Batch: 33580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Nitrate | 2.50 | 2.60 | | mg/L | | 104 | 90 - 110 |
| Nitrite | 1.00 | 0.952 | | mg/L | | 95 | 90 - 110 |

Lab Sample ID: LCS 885-33580/59
Matrix: Water
Analysis Batch: 33580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Nitrate | 2.50 | 2.63 | | mg/L | | 105 | 90 - 110 |
| Nitrite | 1.00 | 0.960 | | mg/L | | 96 | 90 - 110 |

Lab Sample ID: MRL 885-33580/3
Matrix: Water
Analysis Batch: 33580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Nitrate | 0.100 | 0.102 | | mg/L | | 102 | 50 - 150 |
| Nitrite | 0.100 | 0.0994 | J | mg/L | | 99 | 50 - 150 |

Method: 8330A - Nitroaromatics and Nitramines

Lab Sample ID: MB 570-620440/1-A
Matrix: Water
Analysis Batch: 621042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620440

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|-----------|--------------|-----|-------|------|---|----------------|----------------|---------|
| 1,3,5-Trinitrobenzene | ND | | 1.1 | 0.14 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 1,3-Dinitrobenzene | ND | | 1.1 | 0.14 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 2,4,6-Trinitrotoluene | ND | | 1.1 | 0.67 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 2,4-Dinitrotoluene | ND | | 1.1 | 0.17 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 2,6-Dinitrotoluene | ND | | 1.1 | 0.081 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 2-Amino-4,6-DNT | ND | | 1.1 | 0.089 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 2-Nitrotoluene | ND | | 1.1 | 0.072 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 3-Nitrotoluene | ND | | 1.1 | 0.10 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 4-Amino-2,6-DNT | ND | | 1.1 | 0.22 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| 4-Nitrotoluene | ND | | 1.1 | 0.17 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| HMX | ND | | 1.1 | 0.12 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| Nitrobenzene | ND | | 1.1 | 0.15 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| RDX | ND | | 1.1 | 0.11 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |
| Tetryl | ND | | 1.1 | 0.69 | ug/L | | 09/03/25 14:07 | 09/04/25 17:18 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 1,2-Dinitrobenzene (Surr) | 102 | | 60 - 150 | 09/03/25 14:07 | 09/04/25 17:18 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Method: 8330A - Nitroaromatics and Nitramines (Continued)

Lab Sample ID: LCS 570-620440/2-A

Matrix: Water

Analysis Batch: 621042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 620440

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,3,5-Trinitrobenzene | 26.0 | 25.3 | | ug/L | | 98 | 44 - 152 |
| 1,3-Dinitrobenzene | 26.0 | 25.5 | | ug/L | | 98 | 48 - 162 |
| 2,4,6-Trinitrotoluene | 26.0 | 24.6 | | ug/L | | 95 | 48 - 162 |
| 2,4-Dinitrotoluene | 26.0 | 26.1 | | ug/L | | 101 | 47 - 155 |
| 2,6-Dinitrotoluene | 26.0 | 26.9 | | ug/L | | 103 | 49 - 145 |
| 2-Amino-4,6-DNT | 26.0 | 27.7 | | ug/L | | 107 | 49 - 145 |
| 2-Nitrotoluene | 26.0 | 26.3 | | ug/L | | 101 | 44 - 146 |
| 3-Nitrotoluene | 26.0 | 26.3 | | ug/L | | 101 | 43 - 157 |
| 4-Amino-2,6-DNT | 26.0 | 28.7 | | ug/L | | 110 | 47 - 149 |
| 4-Nitrotoluene | 26.0 | 26.3 | | ug/L | | 101 | 44 - 146 |
| HMX | 26.0 | 27.1 | | ug/L | | 104 | 43 - 133 |
| Nitrobenzene | 26.0 | 24.8 | | ug/L | | 95 | 36 - 150 |
| RDX | 26.0 | 25.0 | | ug/L | | 96 | 42 - 150 |
| Tetryl | 26.0 | 25.1 | | ug/L | | 97 | 40 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---------------------------|---------------|---------------|----------|
| 1,2-Dinitrobenzene (Surr) | 101 | | 60 - 150 |

Lab Sample ID: LCSD 570-620440/3-A

Matrix: Water

Analysis Batch: 621042

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 620440

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|-----------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-------|
| 1,3,5-Trinitrobenzene | 26.0 | 24.5 | | ug/L | | 94 | 44 - 152 | 4 | 13 |
| 1,3-Dinitrobenzene | 26.0 | 24.8 | | ug/L | | 95 | 48 - 162 | 3 | 12 |
| 2,4,6-Trinitrotoluene | 26.0 | 24.0 | | ug/L | | 92 | 48 - 162 | 3 | 12 |
| 2,4-Dinitrotoluene | 26.0 | 25.4 | | ug/L | | 98 | 47 - 155 | 3 | 13 |
| 2,6-Dinitrotoluene | 26.0 | 26.2 | | ug/L | | 101 | 49 - 145 | 2 | 12 |
| 2-Amino-4,6-DNT | 26.0 | 26.9 | | ug/L | | 104 | 49 - 145 | 3 | 14 |
| 2-Nitrotoluene | 26.0 | 25.5 | | ug/L | | 98 | 44 - 146 | 3 | 16 |
| 3-Nitrotoluene | 26.0 | 25.6 | | ug/L | | 98 | 43 - 157 | 3 | 15 |
| 4-Amino-2,6-DNT | 26.0 | 27.9 | | ug/L | | 107 | 47 - 149 | 3 | 19 |
| 4-Nitrotoluene | 26.0 | 25.5 | | ug/L | | 98 | 44 - 146 | 3 | 15 |
| HMX | 26.0 | 26.2 | | ug/L | | 101 | 43 - 133 | 3 | 13 |
| Nitrobenzene | 26.0 | 24.0 | | ug/L | | 92 | 36 - 150 | 3 | 15 |
| RDX | 26.0 | 24.2 | | ug/L | | 93 | 42 - 150 | 3 | 15 |
| Tetryl | 26.0 | 24.6 | | ug/L | | 95 | 40 - 130 | 2 | 14 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---------------------------|----------------|----------------|----------|
| 1,2-Dinitrobenzene (Surr) | 98 | | 60 - 150 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 331.0 - Perchlorate (LC/MS/MS)

Lab Sample ID: MB 570-622969/8
Matrix: Water
Analysis Batch: 622969

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Perchlorate | ND | | 0.10 | 0.020 | ug/L | | | 09/09/25 13:43 | 1 |

Lab Sample ID: LCS 570-622969/9
Matrix: Water
Analysis Batch: 622969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------|-------------|------------|---------------|------|---|------|-------------|
| Perchlorate | 10.0 | 10.1 | | ug/L | | 101 | 80 - 120 |

Lab Sample ID: LCSD 570-622969/10
Matrix: Water
Analysis Batch: 622969

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Perchlorate | 10.0 | 10.2 | | ug/L | | 102 | 80 - 120 | 1 | 20 |

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MB 320-874939/1-A
Matrix: Water
Analysis Batch: 875077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 874939

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluoroheptanoic acid (PFHpA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorooctanoic acid (PFOA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorononanoic acid (PFNA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorodecanoic acid (PFDA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluoroundecanoic acid (PFUnA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorododecanoic acid (PFDoA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorotetradecanoic acid (PFTA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | ND | | 0.0020 | 0.00050 | ug/L | | 09/11/25 04:38 | 09/11/25 13:43 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------------|--------------|----------|----------------|----------------|---------|
| 13C2 PFHxA | 95 | | 70 - 130 | 09/11/25 04:38 | 09/11/25 13:43 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MB 320-874939/1-A
Matrix: Water
Analysis Batch: 875077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 874939

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 13C2 PFDA | 101 | | 70 - 130 | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| d5-NEtFOSAA | 100 | | 70 - 130 | 09/11/25 04:38 | 09/11/25 13:43 | 1 |
| 13C3 HFPO-DA | 94 | | 70 - 130 | 09/11/25 04:38 | 09/11/25 13:43 | 1 |

Lab Sample ID: LCS 320-874939/3-A
Matrix: Water
Analysis Batch: 875077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 874939

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec |
|--|-------------|------------|---------------|------|---|------|----------|
| | | | | | | | Limits |
| Perfluorohexanoic acid (PFHxA) | 0.0800 | 0.0662 | | ug/L | | 83 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | 0.0800 | 0.0700 | | ug/L | | 88 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | 0.0800 | 0.0745 | | ug/L | | 93 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | 0.0800 | 0.0713 | | ug/L | | 89 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | 0.0800 | 0.0697 | | ug/L | | 87 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | 0.0800 | 0.0713 | | ug/L | | 89 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | 0.0800 | 0.0692 | | ug/L | | 87 | 70 - 130 |
| Perfluorotridecanoic acid (PFTrDA) | 0.0800 | 0.0730 | | ug/L | | 91 | 70 - 130 |
| Perfluorotetradecanoic acid (PFTA) | 0.0800 | 0.0708 | | ug/L | | 88 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | 0.0710 | 0.0580 | | ug/L | | 82 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | 0.0730 | 0.0689 | | ug/L | | 94 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | 0.0744 | 0.0676 | | ug/L | | 91 | 70 - 130 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.0800 | 0.0690 | | ug/L | | 86 | 70 - 130 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | 0.0800 | 0.0650 | | ug/L | | 81 | 70 - 130 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | 0.0747 | 0.0601 | | ug/L | | 80 | 70 - 130 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 0.0755 | 0.0666 | | ug/L | | 88 | 70 - 130 |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | 0.0800 | 0.0664 | | ug/L | | 83 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 0.0757 | 0.0677 | | ug/L | | 89 | 70 - 130 |

| Surrogate | LCS LCS | | Limits |
|--------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C2 PFHxA | 84 | | 70 - 130 |
| 13C2 PFDA | 96 | | 70 - 130 |
| d5-NEtFOSAA | 86 | | 70 - 130 |
| 13C3 HFPO-DA | 86 | | 70 - 130 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCSD 320-874939/4-A
 Matrix: Water
 Analysis Batch: 875077

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 874939

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|--|-------------|-------------|----------------|------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | | |
| Perfluorohexanoic acid (PFHxA) | 0.0800 | 0.0675 | | ug/L | | 84 | 70 - 130 | 2 | 30 | |
| Perfluoroheptanoic acid (PFHpA) | 0.0800 | 0.0713 | | ug/L | | 89 | 70 - 130 | 2 | 30 | |
| Perfluorooctanoic acid (PFOA) | 0.0800 | 0.0716 | | ug/L | | 90 | 70 - 130 | 4 | 30 | |
| Perfluorononanoic acid (PFNA) | 0.0800 | 0.0666 | | ug/L | | 83 | 70 - 130 | 7 | 30 | |
| Perfluorodecanoic acid (PFDA) | 0.0800 | 0.0644 | | ug/L | | 81 | 70 - 130 | 8 | 30 | |
| Perfluoroundecanoic acid (PFUnA) | 0.0800 | 0.0675 | | ug/L | | 84 | 70 - 130 | 5 | 30 | |
| Perfluorododecanoic acid (PFDoA) | 0.0800 | 0.0674 | | ug/L | | 84 | 70 - 130 | 3 | 30 | |
| Perfluorotridecanoic acid (PFTrDA) | 0.0800 | 0.0714 | | ug/L | | 89 | 70 - 130 | 2 | 30 | |
| Perfluorotetradecanoic acid (PFTA) | 0.0800 | 0.0697 | | ug/L | | 87 | 70 - 130 | 2 | 30 | |
| Perfluorobutanesulfonic acid (PFBS) | 0.0710 | 0.0603 | | ug/L | | 85 | 70 - 130 | 4 | 30 | |
| Perfluorohexanesulfonic acid (PFHxS) | 0.0730 | 0.0702 | | ug/L | | 96 | 70 - 130 | 2 | 30 | |
| Perfluorooctanesulfonic acid (PFOS) | 0.0744 | 0.0662 | | ug/L | | 89 | 70 - 130 | 2 | 30 | |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.0800 | 0.0706 | | ug/L | | 88 | 70 - 130 | 2 | 30 | |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | 0.0800 | 0.0708 | | ug/L | | 88 | 70 - 130 | 9 | 30 | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | 0.0747 | 0.0616 | | ug/L | | 82 | 70 - 130 | 2 | 30 | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 0.0755 | 0.0638 | | ug/L | | 85 | 70 - 130 | 4 | 30 | |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | 0.0800 | 0.0660 | | ug/L | | 82 | 70 - 130 | 1 | 30 | |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 0.0757 | 0.0698 | | ug/L | | 92 | 70 - 130 | 3 | 30 | |

| Surrogate | LCSD | | Limits |
|--------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C2 PFHxA | 90 | | 70 - 130 |
| 13C2 PFDA | 91 | | 70 - 130 |
| d5-NEtFOSAA | 90 | | 70 - 130 |
| 13C3 HFPO-DA | 85 | | 70 - 130 |

Lab Sample ID: LLCS 320-874939/2-A
 Matrix: Water
 Analysis Batch: 875077

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 874939

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec | |
|----------------------------------|-------------|-------------|----------------|------|---|------|----------|-----|
| | | | | | | | Limits | RPD |
| Perfluorohexanoic acid (PFHxA) | 0.00400 | 0.00336 | | ug/L | | 84 | 50 - 150 | |
| Perfluoroheptanoic acid (PFHpA) | 0.00400 | 0.00371 | | ug/L | | 93 | 50 - 150 | |
| Perfluorooctanoic acid (PFOA) | 0.00400 | 0.00337 | | ug/L | | 84 | 50 - 150 | |
| Perfluorononanoic acid (PFNA) | 0.00400 | 0.00334 | | ug/L | | 84 | 50 - 150 | |
| Perfluorodecanoic acid (PFDA) | 0.00400 | 0.00353 | | ug/L | | 88 | 50 - 150 | |
| Perfluoroundecanoic acid (PFUnA) | 0.00400 | 0.00339 | | ug/L | | 85 | 50 - 150 | |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 320-874939/2-A
Matrix: Water
Analysis Batch: 875077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 874939

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--|-------------|-------------|----------------|------|---|------|-------------|
| Perfluorododecanoic acid (PFDoA) | 0.00400 | 0.00355 | | ug/L | | 89 | 50 - 150 |
| Perfluorotridecanoic acid (PFTrDA) | 0.00400 | 0.00348 | | ug/L | | 87 | 50 - 150 |
| Perfluorotetradecanoic acid (PFTA) | 0.00400 | 0.00321 | | ug/L | | 80 | 50 - 150 |
| Perfluorobutanesulfonic acid (PFBS) | 0.00355 | 0.00287 | | ug/L | | 81 | 50 - 150 |
| Perfluorohexanesulfonic acid (PFHxS) | 0.00365 | 0.00315 | | ug/L | | 86 | 50 - 150 |
| Perfluorooctanesulfonic acid (PFOS) | 0.00372 | 0.00293 | | ug/L | | 79 | 50 - 150 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.00400 | 0.00320 | | ug/L | | 80 | 50 - 150 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | 0.00400 | 0.00339 | | ug/L | | 85 | 50 - 150 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | 0.00374 | 0.00287 | | ug/L | | 77 | 50 - 150 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 0.00378 | 0.00302 | | ug/L | | 80 | 50 - 150 |
| Hexafluoropropylene oxide dimer acid (HFPO DA) | 0.00400 | 0.00316 | | ug/L | | 79 | 50 - 150 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 0.00378 | 0.00318 | | ug/L | | 84 | 50 - 150 |

| Surrogate | LLCS %Recovery | LLCS Qualifier | LLCS Limits |
|--------------|----------------|----------------|-------------|
| 13C2 PFHxA | 89 | | 70 - 130 |
| 13C2 PFDA | 94 | | 70 - 130 |
| d5-NEtFOSAA | 90 | | 70 - 130 |
| 13C3 HFPO-DA | 85 | | 70 - 130 |

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-33801/17
Matrix: Water
Analysis Batch: 33801

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|--------|------|---|----------|----------------|---------|
| Aluminum | ND | | 0.020 | 0.017 | mg/L | | | 09/03/25 07:18 | 1 |
| Beryllium | ND | | 0.0020 | 0.0011 | mg/L | | | 09/03/25 07:18 | 1 |
| Boron | ND | | 0.040 | 0.0053 | mg/L | | | 09/03/25 07:18 | 1 |
| Cadmium | ND | | 0.0020 | 0.0017 | mg/L | | | 09/03/25 07:18 | 1 |
| Calcium | ND | | 1.0 | 0.42 | mg/L | | | 09/03/25 07:18 | 1 |
| Iron | ND | | 0.020 | 0.0093 | mg/L | | | 09/03/25 07:18 | 1 |
| Magnesium | ND | | 1.0 | 0.064 | mg/L | | | 09/03/25 07:18 | 1 |
| Molybdenum | ND | | 0.0080 | 0.0063 | mg/L | | | 09/03/25 07:18 | 1 |
| Potassium | ND | | 1.0 | 0.45 | mg/L | | | 09/03/25 07:18 | 1 |
| Silver | ND | | 0.0050 | 0.0015 | mg/L | | | 09/03/25 07:18 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 885-33801/37

Matrix: Water

Analysis Batch: 33801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Aluminum | 0.500 | 0.498 | | mg/L | | 100 | 85 - 115 |
| Beryllium | 0.500 | 0.440 | | mg/L | | 88 | 85 - 115 |
| Boron | 0.500 | 0.458 | | mg/L | | 92 | 85 - 115 |
| Cadmium | 0.500 | 0.435 | | mg/L | | 87 | 85 - 115 |
| Calcium | 50.0 | 42.8 | | mg/L | | 86 | 85 - 115 |
| Iron | 0.500 | 0.426 | | mg/L | | 85 | 85 - 115 |
| Magnesium | 50.0 | 43.9 | | mg/L | | 88 | 85 - 115 |
| Molybdenum | 0.500 | 0.428 | | mg/L | | 86 | 85 - 115 |
| Potassium | 50.0 | 44.1 | | mg/L | | 88 | 85 - 115 |
| Silver | 0.100 | 0.0879 | | mg/L | | 88 | 85 - 115 |

Lab Sample ID: MRL 885-33801/14

Matrix: Water

Analysis Batch: 33801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Aluminum | 0.0100 | ND | | mg/L | | 95 | 50 - 150 |
| Barium | 0.00200 | 0.00186 | J | mg/L | | 93 | 50 - 150 |
| Beryllium | 0.00200 | 0.00203 | | mg/L | | 102 | 50 - 150 |
| Boron | 0.0400 | 0.0371 | J | mg/L | | 93 | 50 - 150 |
| Cadmium | 0.00200 | 0.00194 | J | mg/L | | 97 | 50 - 150 |
| Calcium | 0.500 | 0.459 | J | mg/L | | 92 | 50 - 150 |
| Chromium | 0.00600 | 0.00531 | J | mg/L | | 88 | 50 - 150 |
| Cobalt | 0.00600 | 0.00500 | J | mg/L | | 83 | 50 - 150 |
| Iron | 0.0200 | 0.0210 | J | mg/L | | 105 | 50 - 150 |
| Magnesium | 0.500 | 0.460 | J | mg/L | | 92 | 50 - 150 |
| Manganese | 0.00200 | 0.00186 | J | mg/L | | 93 | 50 - 150 |
| Molybdenum | 0.00800 | ND | | mg/L | | 56 | 50 - 150 |
| Nickel | 0.00500 | 0.00370 | J | mg/L | | 74 | 50 - 150 |
| Potassium | 0.500 | 0.475 | J | mg/L | | 95 | 50 - 150 |
| Zinc | 0.0100 | 0.0134 | | mg/L | | 134 | 50 - 150 |
| Silver | 0.00500 | 0.00482 | J | mg/L | | 96 | 50 - 150 |

Lab Sample ID: MB 885-34004/56

Matrix: Water

Analysis Batch: 34004

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Barium | ND | | 0.0030 | 0.0018 | mg/L | | | 09/05/25 10:17 | 1 |
| Chromium | ND | | 0.0060 | 0.0030 | mg/L | | | 09/05/25 10:17 | 1 |
| Cobalt | ND | | 0.0060 | 0.0033 | mg/L | | | 09/05/25 10:17 | 1 |
| Manganese | ND | | 0.0020 | 0.0012 | mg/L | | | 09/05/25 10:17 | 1 |
| Nickel | ND | | 0.010 | 0.0040 | mg/L | | | 09/05/25 10:17 | 1 |
| Sodium | ND | | 1.0 | 0.25 | mg/L | | | 09/05/25 10:17 | 1 |
| Zinc | ND | | 0.010 | 0.0075 | mg/L | | | 09/05/25 10:17 | 1 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 885-34004/62

Matrix: Water

Analysis Batch: 34004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | |
|-----------|-------------|------------|---------------|------|---|------|-------------|--|
| | | | | | | | | |
| Barium | 0.500 | 0.463 | | mg/L | | 93 | 85 - 115 | |
| Chromium | 0.500 | 0.458 | | mg/L | | 92 | 85 - 115 | |
| Cobalt | 0.500 | 0.449 | | mg/L | | 90 | 85 - 115 | |
| Manganese | 0.500 | 0.449 | | mg/L | | 90 | 85 - 115 | |
| Nickel | 0.500 | 0.452 | | mg/L | | 90 | 85 - 115 | |
| Sodium | 50.0 | 43.4 | | mg/L | | 87 | 85 - 115 | |
| Zinc | 0.500 | 0.454 | | mg/L | | 91 | 85 - 115 | |

Lab Sample ID: MRL 885-34004/53

Matrix: Water

Analysis Batch: 34004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits | |
|------------|-------------|------------|---------------|------|---|------|-------------|--|
| | | | | | | | | |
| Aluminum | 0.0100 | ND | | mg/L | | 96 | 50 - 150 | |
| Barium | 0.00200 | 0.00187 | J | mg/L | | 94 | 50 - 150 | |
| Beryllium | 0.00200 | 0.00151 | J | mg/L | | 76 | 50 - 150 | |
| Boron | 0.0400 | 0.0391 | J | mg/L | | 98 | 50 - 150 | |
| Cadmium | 0.00200 | 0.00199 | J | mg/L | | 100 | 50 - 150 | |
| Calcium | 0.500 | 0.440 | J | mg/L | | 88 | 50 - 150 | |
| Chromium | 0.00600 | 0.00766 | | mg/L | | 128 | 50 - 150 | |
| Cobalt | 0.00600 | 0.00555 | J | mg/L | | 93 | 50 - 150 | |
| Iron | 0.0200 | 0.0126 | J | mg/L | | 63 | 50 - 150 | |
| Magnesium | 0.500 | 0.483 | J | mg/L | | 97 | 50 - 150 | |
| Manganese | 0.00200 | 0.00207 | | mg/L | | 104 | 50 - 150 | |
| Molybdenum | 0.00800 | 0.00875 | | mg/L | | 109 | 50 - 150 | |
| Nickel | 0.00500 | 0.00415 | J | mg/L | | 83 | 50 - 150 | |
| Potassium | 0.500 | 0.463 | J | mg/L | | 93 | 50 - 150 | |
| Sodium | 0.500 | 0.501 | J | mg/L | | 100 | 50 - 150 | |
| Zinc | 0.0100 | 0.00860 | J | mg/L | | 86 | 50 - 150 | |
| Silver | 0.00500 | 0.00542 | | mg/L | | 108 | 50 - 150 | |

Lab Sample ID: MB 885-34121/17

Matrix: Water

Analysis Batch: 34121

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Sodium | ND | | 1.0 | 0.25 | mg/L | | | 09/08/25 08:15 | 1 |

Lab Sample ID: LCS 885-34121/18

Matrix: Water

Analysis Batch: 34121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | |
|---------|-------------|------------|---------------|------|---|------|-------------|--|
| | | | | | | | | |
| Sodium | 50.0 | 47.2 | | mg/L | | 94 | 85 - 115 | |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MRL 885-34121/14
Matrix: Water
Analysis Batch: 34121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Aluminum | 0.0100 | ND | | mg/L | | 108 | 50 - 150 |
| Barium | 0.00200 | 0.00242 | J | mg/L | | 121 | 50 - 150 |
| Beryllium | 0.00200 | 0.00240 | | mg/L | | 120 | 50 - 150 |
| Boron | 0.0400 | 0.0400 | | mg/L | | 100 | 50 - 150 |
| Cadmium | 0.00200 | 0.00190 | J | mg/L | | 95 | 50 - 150 |
| Calcium | 0.500 | 0.469 | J | mg/L | | 94 | 50 - 150 |
| Chromium | 0.00600 | 0.00714 | | mg/L | | 119 | 50 - 150 |
| Cobalt | 0.00600 | 0.00663 | | mg/L | | 111 | 50 - 150 |
| Iron | 0.0200 | 0.0245 | J | mg/L | | 123 | 50 - 150 |
| Magnesium | 0.500 | 0.485 | J | mg/L | | 97 | 50 - 150 |
| Manganese | 0.00200 | 0.00206 | | mg/L | | 103 | 50 - 150 |
| Molybdenum | 0.00800 | 0.00642 | J | mg/L | | 80 | 50 - 150 |
| Potassium | 0.500 | 0.474 | J | mg/L | | 95 | 50 - 150 |
| Sodium | 0.500 | 0.439 | J | mg/L | | 88 | 50 - 150 |
| Silver | 0.00500 | 0.00532 | | mg/L | | 106 | 50 - 150 |

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 885-34256/13
Matrix: Water
Analysis Batch: 34256

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|---------|----------|------|---|----------|----------------|---------|
| Antimony | ND | | 0.0010 | 0.00028 | mg/L | | | 09/08/25 14:58 | 1 |
| Arsenic | ND | | 0.00050 | 0.00041 | mg/L | | | 09/08/25 14:58 | 1 |
| Copper | ND | | 0.00050 | 0.00030 | mg/L | | | 09/08/25 14:58 | 1 |
| Lead | ND | | 0.00050 | 0.00034 | mg/L | | | 09/08/25 14:58 | 1 |
| Selenium | ND | | 0.0010 | 0.00092 | mg/L | | | 09/08/25 14:58 | 1 |
| Cadmium | ND | | 0.00050 | 0.00018 | mg/L | | | 09/08/25 14:58 | 1 |
| Thallium | ND | | 0.00025 | 0.000036 | mg/L | | | 09/08/25 14:58 | 1 |
| Uranium | ND | | 0.00050 | 0.00019 | mg/L | | | 09/08/25 14:58 | 1 |

Lab Sample ID: LCS 885-34256/14
Matrix: Water
Analysis Batch: 34256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.0250 | 0.0245 | | mg/L | | 98 | 85 - 115 |
| Arsenic | 0.0250 | 0.0249 | | mg/L | | 99 | 85 - 115 |
| Copper | 0.0250 | 0.0255 | | mg/L | | 102 | 85 - 115 |
| Lead | 0.0125 | 0.0128 | | mg/L | | 102 | 85 - 115 |
| Selenium | 0.0250 | 0.0250 | | mg/L | | 100 | 85 - 115 |
| Cadmium | 0.0125 | 0.0130 | | mg/L | | 104 | 85 - 115 |
| Thallium | 0.0125 | 0.0127 | | mg/L | | 101 | 85 - 115 |
| Uranium | 0.0125 | 0.0127 | | mg/L | | 102 | 85 - 115 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MRL 885-34256/10
Matrix: Water
Analysis Batch: 34256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL | MRL | Unit | D | %Rec | %Rec Limits |
|----------|-------------|----------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Antimony | 0.00100 | 0.00106 | | mg/L | | 106 | 50 - 150 |
| Lead | 0.000500 | 0.000502 | | mg/L | | 100 | 50 - 150 |
| Selenium | 0.00100 | 0.000922 | J | mg/L | | 92 | 50 - 150 |
| Cadmium | 0.000500 | 0.000555 | | mg/L | | 111 | 50 - 150 |
| Uranium | 0.000500 | 0.000497 | J | mg/L | | 99 | 50 - 150 |

Lab Sample ID: MRL 885-34256/11
Matrix: Water
Analysis Batch: 34256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL | MRL | Unit | D | %Rec | %Rec Limits |
|----------|-------------|----------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Arsenic | 0.000500 | 0.000579 | | mg/L | | 116 | 50 - 150 |
| Copper | 0.000500 | 0.000595 | | mg/L | | 119 | 50 - 150 |
| Thallium | 0.000250 | 0.000294 | | mg/L | | 118 | 50 - 150 |

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 885-33722/12-A
Matrix: Water
Analysis Batch: 33799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33722

| Analyte | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|---------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | ND | | 0.00020 | 0.000080 | mg/L | | 09/02/25 12:52 | 09/03/25 09:23 | 1 |

Lab Sample ID: LCS 885-33722/14-A
Matrix: Water
Analysis Batch: 33799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33722

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec Limits |
|---------|-------------|---------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Mercury | 0.00500 | 0.00510 | | mg/L | | 102 | 85 - 115 |

Lab Sample ID: LLCS 885-33722/13-A
Matrix: Water
Analysis Batch: 33799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33722

| Analyte | Spike Added | LLCS | LLCS | Unit | D | %Rec | %Rec Limits |
|---------|-------------|----------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Mercury | 0.000150 | 0.000134 | J | mg/L | | 89 | 50 - 150 |

Lab Sample ID: MRL 885-33722/9-A
Matrix: Water
Analysis Batch: 33799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33722

| Analyte | Spike Added | MRL | MRL | Unit | D | %Rec | %Rec Limits |
|---------|-------------|----------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Mercury | 0.000150 | 0.000134 | J | mg/L | | 89 | 50 - 150 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-33838/1
 Matrix: Water
 Analysis Batch: 33838

Client Sample ID: Method Blank
 Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | ND | | 50 | 25 | mg/L | | | 09/03/25 16:34 | 1 |

Lab Sample ID: LCS 885-33838/2
 Matrix: Water
 Analysis Batch: 33838

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 1000 | 1020 | | mg/L | | 102 | 80 - 120 |

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 400-722045/25
 Matrix: Water
 Analysis Batch: 722045

Client Sample ID: Method Blank
 Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|--------|--------|------|---|----------|----------------|---------|
| Phenols, Total | ND | | 0.0050 | 0.0020 | mg/L | | | 09/04/25 14:48 | 1 |

Lab Sample ID: LCS 400-722045/26
 Matrix: Water
 Analysis Batch: 722045

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Phenols, Total | 0.100 | 0.102 | | mg/L | | 102 | 90 - 110 |

Lab Sample ID: MRL 400-722045/20
 Matrix: Water
 Analysis Batch: 722045

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Phenols, Total | 0.00500 | 0.00599 | | mg/L | | 120 | 50 - 150 |

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 885-33735/2
 Matrix: Water
 Analysis Batch: 33735

Client Sample ID: Method Blank
 Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 | ND | | 20 | 20 | mg/L | | | 09/02/25 09:45 | 1 |
| Bicarbonate Alkalinity as CaCO3 | ND | | 20 | 20 | mg/L | | | 09/02/25 09:45 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 2.0 | 2.0 | mg/L | | | 09/02/25 09:45 | 1 |

Lab Sample ID: LCS 885-33735/3
 Matrix: Water
 Analysis Batch: 33735

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity as CaCO3 | 84.8 | 78.4 | | mg/L | | 92 | 90 - 110 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MRL 885-33735/1
Matrix: Water
Analysis Batch: 33735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity as CaCO3 | 21.2 | 25.8 | | mg/L | | 122 | 50 - 150 |

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 885-33736/4
Matrix: Water
Analysis Batch: 33736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|----------|---|------|-------------|
| Specific Conductance | 100 | 102 | | umhos/cm | | 102 | 85 - 115 |

Lab Sample ID: MRL 885-33736/3
Matrix: Water
Analysis Batch: 33736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|----------|---|------|-------------|
| Specific Conductance | 9.49 | 9.40 | J | umhos/cm | | 99 | 50 - 150 |

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 570-620429/2-A
Matrix: Water
Analysis Batch: 620583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620429

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | ND | | 0.025 | 0.0093 | mg/L | | 09/03/25 13:36 | 09/03/25 16:10 | 1 |

Lab Sample ID: LCS 570-620429/3-A
Matrix: Water
Analysis Batch: 620583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620429

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Cyanide, Total | 0.100 | 0.0995 | | mg/L | | 99 | 80 - 120 |

Lab Sample ID: LCSD 570-620429/4-A
Matrix: Water
Analysis Batch: 620583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 620429

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | 0.100 | 0.0986 | | mg/L | | 99 | 80 - 120 | 1 | 20 |

Lab Sample ID: MRL 570-620429/1-A
Matrix: Water
Analysis Batch: 620583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620429

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Cyanide, Total | 0.0250 | 0.0210 | J | mg/L | | 84 | 50 - 150 |

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-734790/1-A
Matrix: Water
Analysis Batch: 738387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734790

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | -0.002239 | U | 0.176 | 0.176 | 1.00 | 0.357 | pCi/L | 09/04/25 08:22 | 09/30/25 18:53 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 88.3 | | 30 - 110 | | 09/04/25 08:22 | 09/30/25 18:53 | 1 | | | |

Lab Sample ID: LCS 160-734790/2-A
Matrix: Water
Analysis Batch: 738387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734790

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|---------------|----------|-----------------|------|-------|-------|------|-------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 9.57 | 8.522 | | 1.20 | 1.00 | 0.459 | pCi/L | 89 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 86.3 | | 30 - 110 | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-734791/1-A
Matrix: Water
Analysis Batch: 738401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734791

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | -0.003435 | U | 0.489 | 0.489 | 1.00 | 0.908 | pCi/L | 09/04/25 08:27 | 09/30/25 15:54 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 88.3 | | 30 - 110 | | 09/04/25 08:27 | 09/30/25 15:54 | 1 | | | |
| Y Carrier | 83.4 | | 30 - 110 | | 09/04/25 08:27 | 09/30/25 15:54 | 1 | | | |

Lab Sample ID: LCS 160-734791/2-A
Matrix: Water
Analysis Batch: 738387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734791

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|---------------|----------|-----------------|------|-------|-------|------|-------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-228 | 9.02 | 8.929 | | 1.27 | 1.00 | 0.535 | pCi/L | 99 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 86.3 | | 30 - 110 | | | | | | |
| Y Carrier | 81.9 | | 30 - 110 | | | | | | |

Eurofins Albuquerque

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

GC/MS VOA

Analysis Batch: 34338

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8260B | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8260B | |
| 885-32182-3 | Trip Blank | Total/NA | Water | 8260B | |
| MB 885-34338/5 | Method Blank | Total/NA | Water | 8260B | |
| LCS 885-34338/4 | Lab Control Sample | Total/NA | Water | 8260B | |

GC/MS Semi VOA

Prep Batch: 33674

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 3511 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 3511 | |
| MB 885-33674/1-A | Method Blank | Total/NA | Water | 3511 | |
| LCS 885-33674/2-A | Lab Control Sample | Total/NA | Water | 3511 | |

Analysis Batch: 33850

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8270E | 33674 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8270E | 33674 |
| MB 885-33674/1-A | Method Blank | Total/NA | Water | 8270E | 33674 |
| LCS 885-33674/2-A | Lab Control Sample | Total/NA | Water | 8270E | 33674 |

Prep Batch: 721936

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 3511 | |
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 3511 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 3511 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 3511 | |
| MB 400-721936/1-A | Method Blank | Total/NA | Water | 3511 | |
| LCS 400-721936/2-A | Lab Control Sample | Total/NA | Water | 3511 | |
| LCS 400-721936/4-A | Lab Control Sample | Total/NA | Water | 3511 | |
| LCSD 400-721936/3-A | Lab Control Sample Dup | Total/NA | Water | 3511 | |
| LCSD 400-721936/5-A | Lab Control Sample Dup | Total/NA | Water | 3511 | |

Analysis Batch: 722040

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8270E | 721936 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8270E | 721936 |
| MB 400-721936/1-A | Method Blank | Total/NA | Water | 8270E | 721936 |
| LCS 400-721936/2-A | Lab Control Sample | Total/NA | Water | 8270E | 721936 |
| LCS 400-721936/4-A | Lab Control Sample | Total/NA | Water | 8270E | 721936 |
| LCSD 400-721936/3-A | Lab Control Sample Dup | Total/NA | Water | 8270E | 721936 |
| LCSD 400-721936/5-A | Lab Control Sample Dup | Total/NA | Water | 8270E | 721936 |

Analysis Batch: 722042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8270E | 721936 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8270E | 721936 |
| MB 400-721936/1-A | Method Blank | Total/NA | Water | 8270E | 721936 |

Eurofins Albuquerque

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

GC Semi VOA

Prep Batch: 33697

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 3510C | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 3510C | |
| MB 885-33697/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 885-33697/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCS 885-33697/4-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 885-33697/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| LCSD 885-33697/5-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

Prep Batch: 34010

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8011 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8011 | |
| 885-32182-3 | Trip Blank | Total/NA | Water | 8011 | |
| MB 885-34010/3-A | Method Blank | Total/NA | Water | 8011 | |
| LCS 885-34010/4-A | Lab Control Sample | Total/NA | Water | 8011 | |
| LCSD 885-34010/5-A | Lab Control Sample Dup | Total/NA | Water | 8011 | |
| MRL 885-34010/1-A | Lab Control Sample | Total/NA | Water | 8011 | |

Analysis Batch: 34030

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8011 | 34010 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8011 | 34010 |
| 885-32182-3 | Trip Blank | Total/NA | Water | 8011 | 34010 |
| MB 885-34010/3-A | Method Blank | Total/NA | Water | 8011 | 34010 |
| LCS 885-34010/4-A | Lab Control Sample | Total/NA | Water | 8011 | 34010 |
| LCSD 885-34010/5-A | Lab Control Sample Dup | Total/NA | Water | 8011 | 34010 |
| MRL 885-34010/1-A | Lab Control Sample | Total/NA | Water | 8011 | 34010 |

Analysis Batch: 34033

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8081B | 33697 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8081B | 33697 |
| MB 885-33697/1-A | Method Blank | Total/NA | Water | 8081B | 33697 |
| LCS 885-33697/2-A | Lab Control Sample | Total/NA | Water | 8081B | 33697 |
| LCSD 885-33697/3-A | Lab Control Sample Dup | Total/NA | Water | 8081B | 33697 |

Analysis Batch: 34204

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8082A | 33697 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8082A | 33697 |
| MB 885-33697/1-A | Method Blank | Total/NA | Water | 8082A | 33697 |
| LCS 885-33697/4-A | Lab Control Sample | Total/NA | Water | 8082A | 33697 |
| LCSD 885-33697/5-A | Lab Control Sample Dup | Total/NA | Water | 8082A | 33697 |

Prep Batch: 619939

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8151A | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8151A | |
| MB 570-619939/1-A | Method Blank | Total/NA | Water | 8151A | |
| LCS 570-619939/2-A | Lab Control Sample | Total/NA | Water | 8151A | |
| LCSD 570-619939/3-A | Lab Control Sample Dup | Total/NA | Water | 8151A | |

Eurofins Albuquerque

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

GC Semi VOA

Analysis Batch: 623301

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8151A | 619939 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8151A | 619939 |
| MB 570-619939/1-A | Method Blank | Total/NA | Water | 8151A | 619939 |
| LCS 570-619939/2-A | Lab Control Sample | Total/NA | Water | 8151A | 619939 |
| LCSD 570-619939/3-A | Lab Control Sample Dup | Total/NA | Water | 8151A | 619939 |

HPLC/IC

Analysis Batch: 33563

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 300.0 | |
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 300.0 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 300.0 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 300.0 | |
| MB 885-33563/4 | Method Blank | Total/NA | Water | 300.0 | |
| MB 885-33563/58 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 885-33563/5 | Lab Control Sample | Total/NA | Water | 300.0 | |
| LCS 885-33563/59 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MRL 885-33563/3 | Lab Control Sample | Total/NA | Water | 300.0 | |

Analysis Batch: 33580

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 300.0 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 300.0 | |
| MB 885-33580/4 | Method Blank | Total/NA | Water | 300.0 | |
| MB 885-33580/58 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 885-33580/5 | Lab Control Sample | Total/NA | Water | 300.0 | |
| LCS 885-33580/59 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MRL 885-33580/3 | Lab Control Sample | Total/NA | Water | 300.0 | |

Prep Batch: 620440

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8330 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8330 | |
| MB 570-620440/1-A | Method Blank | Total/NA | Water | 8330 | |
| LCS 570-620440/2-A | Lab Control Sample | Total/NA | Water | 8330 | |
| LCSD 570-620440/3-A | Lab Control Sample Dup | Total/NA | Water | 8330 | |

Analysis Batch: 621042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 8330A | 620440 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 8330A | 620440 |
| MB 570-620440/1-A | Method Blank | Total/NA | Water | 8330A | 620440 |
| LCS 570-620440/2-A | Lab Control Sample | Total/NA | Water | 8330A | 620440 |
| LCSD 570-620440/3-A | Lab Control Sample Dup | Total/NA | Water | 8330A | 620440 |

LCMS

Analysis Batch: 622969

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 331.0 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 331.0 | |

Eurofins Albuquerque

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

LCMS (Continued)

Analysis Batch: 622969 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| MB 570-622969/8 | Method Blank | Total/NA | Water | 331.0 | |
| LCS 570-622969/9 | Lab Control Sample | Total/NA | Water | 331.0 | |
| LCSD 570-622969/10 | Lab Control Sample Dup | Total/NA | Water | 331.0 | |

Prep Batch: 874939

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 537.1 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 537.1 | |
| MB 320-874939/1-A | Method Blank | Total/NA | Water | 537.1 | |
| LCS 320-874939/3-A | Lab Control Sample | Total/NA | Water | 537.1 | |
| LCSD 320-874939/4-A | Lab Control Sample Dup | Total/NA | Water | 537.1 | |
| LLCS 320-874939/2-A | Lab Control Sample | Total/NA | Water | 537.1 | |

Analysis Batch: 875077

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| MB 320-874939/1-A | Method Blank | Total/NA | Water | 537.1 | 874939 |
| LCS 320-874939/3-A | Lab Control Sample | Total/NA | Water | 537.1 | 874939 |
| LCSD 320-874939/4-A | Lab Control Sample Dup | Total/NA | Water | 537.1 | 874939 |
| LLCS 320-874939/2-A | Lab Control Sample | Total/NA | Water | 537.1 | 874939 |

Analysis Batch: 875079

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 537.1 | 874939 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 537.1 | 874939 |

Metals

Prep Batch: 33722

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 245.1 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 245.1 | |
| MB 885-33722/12-A | Method Blank | Total/NA | Water | 245.1 | |
| LCS 885-33722/14-A | Lab Control Sample | Total/NA | Water | 245.1 | |
| LLCS 885-33722/13-A | Lab Control Sample | Total/NA | Water | 245.1 | |
| MRL 885-33722/9-A | Lab Control Sample | Total/NA | Water | 245.1 | |

Analysis Batch: 33799

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 245.1 | 33722 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 245.1 | 33722 |
| MB 885-33722/12-A | Method Blank | Total/NA | Water | 245.1 | 33722 |
| LCS 885-33722/14-A | Lab Control Sample | Total/NA | Water | 245.1 | 33722 |
| LLCS 885-33722/13-A | Lab Control Sample | Total/NA | Water | 245.1 | 33722 |
| MRL 885-33722/9-A | Lab Control Sample | Total/NA | Water | 245.1 | 33722 |

Analysis Batch: 33801

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|--------------------|-----------|--------|---------------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Dissolved | Water | 200.7 Rev 4.4 | |
| 885-32182-1 | WDW-1MW-1-20250828 | Dissolved | Water | 200.7 Rev 4.4 | |
| 885-32182-2 | DUP-20250828 | Dissolved | Water | 200.7 Rev 4.4 | |
| 885-32182-2 | DUP-20250828 | Dissolved | Water | 200.7 Rev 4.4 | |

Eurofins Albuquerque

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Metals (Continued)

Analysis Batch: 33801 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| MB 885-33801/17 | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 885-33801/37 | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |
| MRL 885-33801/14 | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |

Analysis Batch: 34004

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Dissolved | Water | 200.7 Rev 4.4 | |
| 885-32182-2 | DUP-20250828 | Dissolved | Water | 200.7 Rev 4.4 | |
| MB 885-34004/56 | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 885-34004/62 | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |
| MRL 885-34004/53 | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |

Analysis Batch: 34121

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Dissolved | Water | 200.7 Rev 4.4 | |
| 885-32182-2 | DUP-20250828 | Dissolved | Water | 200.7 Rev 4.4 | |
| MB 885-34121/17 | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | |
| LCS 885-34121/18 | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |
| MRL 885-34121/14 | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | |

Analysis Batch: 34256

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Dissolved | Water | 200.8 | |
| 885-32182-2 | DUP-20250828 | Dissolved | Water | 200.8 | |
| MB 885-34256/13 | Method Blank | Total/NA | Water | 200.8 | |
| LCS 885-34256/14 | Lab Control Sample | Total/NA | Water | 200.8 | |
| MRL 885-34256/10 | Lab Control Sample | Total/NA | Water | 200.8 | |
| MRL 885-34256/11 | Lab Control Sample | Total/NA | Water | 200.8 | |

General Chemistry

Analysis Batch: 33735

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|----------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | SM 2320B | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | SM 2320B | |
| MB 885-33735/2 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 885-33735/3 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| MRL 885-33735/1 | Lab Control Sample | Total/NA | Water | SM 2320B | |

Analysis Batch: 33736

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|----------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | SM 2510B | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | SM 2510B | |
| LCS 885-33736/4 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| MRL 885-33736/3 | Lab Control Sample | Total/NA | Water | SM 2510B | |

Analysis Batch: 33737

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|--------------------|-----------|--------|--------------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | SM 4500 H+ B | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | SM 4500 H+ B | |

Eurofins Albuquerque

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

General Chemistry

Analysis Batch: 33838

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 2540C | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 2540C | |
| MB 885-33838/1 | Method Blank | Total/NA | Water | 2540C | |
| LCS 885-33838/2 | Lab Control Sample | Total/NA | Water | 2540C | |

Prep Batch: 620429

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | SM 4500 CN C | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | SM 4500 CN C | |
| MB 570-620429/2-A | Method Blank | Total/NA | Water | SM 4500 CN C | |
| LCS 570-620429/3-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |
| LCS 570-620429/4-A | Lab Control Sample Dup | Total/NA | Water | SM 4500 CN C | |
| MRL 570-620429/1-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |

Analysis Batch: 620583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | SM 4500 CN E | 620429 |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | SM 4500 CN E | 620429 |
| MB 570-620429/2-A | Method Blank | Total/NA | Water | SM 4500 CN E | 620429 |
| LCS 570-620429/3-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 620429 |
| LCS 570-620429/4-A | Lab Control Sample Dup | Total/NA | Water | SM 4500 CN E | 620429 |
| MRL 570-620429/1-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 620429 |

Analysis Batch: 722045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | 420.4 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | 420.4 | |
| MB 400-722045/25 | Method Blank | Total/NA | Water | 420.4 | |
| LCS 400-722045/26 | Lab Control Sample | Total/NA | Water | 420.4 | |
| MRL 400-722045/20 | Lab Control Sample | Total/NA | Water | 420.4 | |

Rad

Prep Batch: 734790

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | PrecSep-21 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | PrecSep-21 | |
| MB 160-734790/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-734790/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 734791

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 885-32182-1 | WDW-1MW-1-20250828 | Total/NA | Water | PrecSep_0 | |
| 885-32182-2 | DUP-20250828 | Total/NA | Water | PrecSep_0 | |
| MB 160-734791/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-734791/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Eurofins Albuquerque

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: WDW-1MW-1-20250828

Lab Sample ID: 885-32182-1

Date Collected: 08/28/25 14:00

Matrix: Water

Date Received: 08/29/25 08:14

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|---------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA | Analysis | 8260B | | 1 | 34338 | JP | EET ALB | 09/10/25 15:41 |
| Total/NA | Prep | 3511 | | | 33674 | JM | EET ALB | 09/02/25 06:57 |
| Total/NA | Analysis | 8270E | | 1 | 33850 | DB | EET ALB | 09/04/25 17:43 |
| Total/NA | Prep | 3511 | | | 721936 | AMM | EET PEN | 09/04/25 13:40 |
| Total/NA | Analysis | 8270E | | 1 | 722040 | S1B | EET PEN | 09/05/25 17:46 |
| Total/NA | Prep | 3511 | | | 721936 | AMM | EET PEN | 09/04/25 13:40 |
| Total/NA | Analysis | 8270E | | 1 | 722042 | S1B | EET PEN | 09/05/25 17:46 |
| Total/NA | Prep | 8011 | | | 34010 | MB | EET ALB | 09/05/25 16:11 |
| Total/NA | Analysis | 8011 | | 1 | 34030 | JE | EET ALB | 09/06/25 17:41 |
| Total/NA | Prep | 3510C | | | 33697 | JM | EET ALB | 09/02/25 11:21 |
| Total/NA | Analysis | 8081B | | 1 | 34033 | MB | EET ALB | 09/06/25 17:02 |
| Total/NA | Prep | 3510C | | | 33697 | JM | EET ALB | 09/02/25 11:21 |
| Total/NA | Analysis | 8082A | | 1 | 34204 | DB | EET ALB | 09/09/25 00:18 |
| Total/NA | Prep | 8151A | | | 619939 | DVE6 | EET CAL 4 | 09/03/25 14:06 |
| Total/NA | Analysis | 8151A | | 1 | 623301 | ZE2W | EET CAL 4 | 09/10/25 20:21 |
| Total/NA | Analysis | 300.0 | | 10 | 33563 | RC | EET ALB | 08/30/25 01:22 |
| Total/NA | Analysis | 300.0 | | 10 | 33580 | RC | EET ALB | 08/30/25 01:22 |
| Total/NA | Analysis | 300.0 | | 100 | 33563 | RC | EET ALB | 08/30/25 01:32 |
| Total/NA | Prep | 8330 | | | 620440 | UM1W | EET CAL 4 | 09/03/25 14:07 |
| Total/NA | Analysis | 8330A | | 1 | 621042 | U9XB | EET CAL 4 | 09/04/25 18:28 |
| Total/NA | Analysis | 331.0 | | 5 | 622969 | M5Z3 | EET CAL 4 | 09/09/25 15:28 |
| Total/NA | Prep | 537.1 | | | 874939 | GAT | EET SAC | 09/11/25 04:38 |
| Total/NA | Analysis | 537.1 | | 1 | 875079 | Y1S | EET SAC | 09/11/25 15:58 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | 33801 | VP | EET ALB | 09/03/25 08:21 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 10 | 33801 | VP | EET ALB | 09/03/25 08:23 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 10 | 34004 | VP | EET ALB | 09/05/25 11:19 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 10 | 34121 | VP | EET ALB | 09/08/25 08:25 |
| Dissolved | Analysis | 200.8 | | 1 | 34256 | BV | EET ALB | 09/08/25 17:03 |
| Total/NA | Prep | 245.1 | | | 33722 | JR | EET ALB | 09/02/25 12:53 |
| Total/NA | Analysis | 245.1 | | 1 | 33799 | JR | EET ALB | 09/03/25 10:08 |
| Total/NA | Analysis | 2540C | | 1 | 33838 | KS | EET ALB | 09/03/25 16:34 |
| Total/NA | Analysis | 420.4 | | 1 | 722045 | VB | EET PEN | 09/04/25 15:59 |
| Total/NA | Analysis | SM 2320B | | 1 | 33735 | DL | EET ALB | 09/02/25 11:40 |
| Total/NA | Analysis | SM 2510B | | 1 | 33736 | DL | EET ALB | 09/02/25 11:40 |
| Total/NA | Prep | SM 4500 CN C | | | 620429 | ZVB7 | EET CAL 4 | 09/03/25 13:36 |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 620583 | ZVB7 | EET CAL 4 | 09/03/25 16:18 |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 33737 | DL | EET ALB | 09/02/25 11:40 |
| Total/NA | Prep | PrecSep-21 | | | 734790 | JTR | EET SL | 09/04/25 08:22 |
| Total/NA | Analysis | 903.0 | | 1 | 738401 | SWS | EET SL | 09/30/25 21:02 |
| Total/NA | Prep | PrecSep_0 | | | 734791 | JTR | EET SL | 09/04/25 08:27 |
| Total/NA | Analysis | 904.0 | | 1 | 738386 | SWS | EET SL | 09/30/25 16:13 |

Eurofins Albuquerque

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: DUP-20250828

Lab Sample ID: 885-32182-2

Date Collected: 08/28/25 13:00

Matrix: Water

Date Received: 08/29/25 08:14

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|---------------|-----|-----------------|--------------|---------------|-----------|----------------------|
| Total/NA | Analysis | 8260B | | 1 | 34338 | JP | EET ALB | 09/10/25 16:09 |
| Total/NA | Prep | 3511 | | | 33674 | JM | EET ALB | 09/02/25 06:57 |
| Total/NA | Analysis | 8270E | | 1 | 33850 | DB | EET ALB | 09/04/25 18:19 |
| Total/NA | Prep | 3511 | | | 721936 | AMM | EET PEN | 09/04/25 13:40 |
| Total/NA | Analysis | 8270E | | 1 | 722040 | S1B | EET PEN | 09/05/25 18:16 |
| Total/NA | Prep | 3511 | | | 721936 | AMM | EET PEN | 09/04/25 13:40 |
| Total/NA | Analysis | 8270E | | 1 | 722042 | S1B | EET PEN | 09/05/25 18:16 |
| Total/NA | Prep | 8011 | | | 34010 | MB | EET ALB | 09/05/25 16:11 |
| Total/NA | Analysis | 8011 | | 1 | 34030 | JE | EET ALB | 09/06/25 17:56 |
| Total/NA | Prep | 3510C | | | 33697 | JM | EET ALB | 09/02/25 11:21 |
| Total/NA | Analysis | 8081B | | 1 | 34033 | MB | EET ALB | 09/06/25 17:15 |
| Total/NA | Prep | 3510C | | | 33697 | JM | EET ALB | 09/02/25 11:21 |
| Total/NA | Analysis | 8082A | | 1 | 34204 | DB | EET ALB | 09/09/25 00:54 |
| Total/NA | Prep | 8151A | | | 619939 | DVE6 | EET CAL 4 | 09/03/25 14:06 |
| Total/NA | Analysis | 8151A | | 1 | 623301 | ZE2W | EET CAL 4 | 09/10/25 20:44 |
| Total/NA | Analysis | 300.0 | | 10 | 33563 | RC | EET ALB | 08/30/25 01:42 |
| Total/NA | Analysis | 300.0 | | 10 | 33580 | RC | EET ALB | 08/30/25 01:42 |
| Total/NA | Analysis | 300.0 | | 100 | 33563 | RC | EET ALB | 08/30/25 01:52 |
| Total/NA | Prep | 8330 | | | 620440 | UM1W | EET CAL 4 | 09/03/25 14:07 |
| Total/NA | Analysis | 8330A | | 1 | 621042 | U9XB | EET CAL 4 | 09/04/25 18:51 |
| Total/NA | Analysis | 331.0 | | 2 | 622969 | M5Z3 | EET CAL 4 | 09/09/25 15:39 |
| Total/NA | Prep | 537.1 | | | 874939 | GAT | EET SAC | 09/11/25 04:38 |
| Total/NA | Analysis | 537.1 | | 1 | 875079 | Y1S | EET SAC | 09/11/25 16:07 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | 33801 | VP | EET ALB | 09/03/25 08:35 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 10 | 33801 | VP | EET ALB | 09/03/25 08:37 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 10 | 34004 | VP | EET ALB | 09/05/25 11:23 |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 10 | 34121 | VP | EET ALB | 09/08/25 08:27 |
| Dissolved | Analysis | 200.8 | | 1 | 34256 | BV | EET ALB | 09/08/25 17:12 |
| Total/NA | Prep | 245.1 | | | 33722 | JR | EET ALB | 09/02/25 12:53 |
| Total/NA | Analysis | 245.1 | | 1 | 33799 | JR | EET ALB | 09/03/25 10:10 |
| Total/NA | Analysis | 2540C | | 1 | 33838 | KS | EET ALB | 09/03/25 16:34 |
| Total/NA | Analysis | 420.4 | | 1 | 722045 | VB | EET PEN | 09/04/25 16:02 |
| Total/NA | Analysis | SM 2320B | | 1 | 33735 | DL | EET ALB | 09/02/25 11:48 |
| Total/NA | Analysis | SM 2510B | | 1 | 33736 | DL | EET ALB | 09/02/25 11:48 |
| Total/NA | Prep | SM 4500 CN C | | | 620429 | ZVB7 | EET CAL 4 | 09/03/25 13:36 |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 620583 | ZVB7 | EET CAL 4 | 09/03/25 16:19 |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 33737 | DL | EET ALB | 09/02/25 11:48 |
| Total/NA | Prep | PrecSep-21 | | | 734790 | JTR | EET SL | 09/04/25 08:22 |
| Total/NA | Analysis | 903.0 | | 1 | 738401 | SWS | EET SL | 09/30/25 21:03 |
| Total/NA | Prep | PrecSep_0 | | | 734791 | JTR | EET SL | 09/04/25 08:27 |
| Total/NA | Analysis | 904.0 | | 1 | 738386 | SWS | EET SL | 09/30/25 16:14 |

Eurofins Albuquerque

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-32182-3

Date Collected: 08/28/25 00:00

Matrix: Water

Date Received: 08/29/25 08:14

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260B | | 1 | 34338 | JP | EET ALB | 09/10/25 12:56 |
| Total/NA | Prep | 8011 | | | 34010 | MB | EET ALB | 09/05/25 16:11 |
| Total/NA | Analysis | 8011 | | 1 | 34030 | JE | EET ALB | 09/06/25 18:10 |

Laboratory References:

- EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975
- EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
- EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
- EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Laboratory: Eurofins Albuquerque

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Oregon | NELAP | NM100001 | 09-23-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------------------------|
| 8081B | 3510C | Water | Chlordane (technical) Peak 1 |
| 8081B | 3510C | Water | Chlordane (technical) Peak 2 |
| 8081B | 3510C | Water | Chlordane (technical) Peak 3 |
| 8081B | 3510C | Water | Chlordane (technical) Peak 4 |
| 8081B | 3510C | Water | Chlordane (technical) Peak 5 |
| 8081B | 3510C | Water | Toxaphene Peak 1 |
| 8081B | 3510C | Water | Toxaphene Peak 2 |
| 8081B | 3510C | Water | Toxaphene Peak 3 |
| 8081B | 3510C | Water | Toxaphene Peak 4 |
| 8081B | 3510C | Water | Toxaphene Peak 5 |
| 8260B | | Water | Acrolein |
| 8260B | | Water | Acrylonitrile |
| 8270E | 3511 | Water | 1,2,4-Trichlorobenzene |
| 8270E | 3511 | Water | 1,2-Dichlorobenzene |
| 8270E | 3511 | Water | 1,3-Dichlorobenzene |
| 8270E | 3511 | Water | 1,4-Dichlorobenzene |
| 8270E | 3511 | Water | 1,4-Dioxane |
| 8270E | 3511 | Water | 1-Methylnaphthalene |
| 8270E | 3511 | Water | 2,2'-oxybis[1-chloropropane] |
| 8270E | 3511 | Water | 2,4,5-Trichlorophenol |
| 8270E | 3511 | Water | 2,4,6-Trichlorophenol |
| 8270E | 3511 | Water | 2,4-Dichlorophenol |
| 8270E | 3511 | Water | 2,4-Dimethylphenol |
| 8270E | 3511 | Water | 2,4-Dinitrophenol |
| 8270E | 3511 | Water | 2,4-Dinitrotoluene |
| 8270E | 3511 | Water | 2,6-Dinitrotoluene |
| 8270E | 3511 | Water | 2-Chloronaphthalene |
| 8270E | 3511 | Water | 2-Chlorophenol |
| 8270E | 3511 | Water | 2-Methylnaphthalene |
| 8270E | 3511 | Water | 2-Methylphenol |
| 8270E | 3511 | Water | 2-Nitroaniline |
| 8270E | 3511 | Water | 2-Nitrophenol |
| 8270E | 3511 | Water | 3 & 4 Methylphenol |
| 8270E | 3511 | Water | 3,3'-Dichlorobenzidine |
| 8270E | 3511 | Water | 3-Nitroaniline |
| 8270E | 3511 | Water | 4,6-Dinitro-2-methylphenol |
| 8270E | 3511 | Water | 4-Bromophenyl phenyl ether |
| 8270E | 3511 | Water | 4-Chloro-3-methylphenol |
| 8270E | 3511 | Water | 4-Chloroaniline |
| 8270E | 3511 | Water | 4-Chlorophenyl phenyl ether |
| 8270E | 3511 | Water | 4-Nitroaniline |
| 8270E | 3511 | Water | 4-Nitrophenol |
| 8270E | 3511 | Water | Acenaphthene |
| 8270E | 3511 | Water | Acenaphthylene |
| 8270E | 3511 | Water | Aniline |

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Laboratory: Eurofins Albuquerque (Continued)

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

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|---------------------------------|
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8270E | 3511 | Water | Anthracene |
| 8270E | 3511 | Water | Atrazine |
| 8270E | 3511 | Water | Azobenzene |
| 8270E | 3511 | Water | Benzidine |
| 8270E | 3511 | Water | Benzo[a]anthracene |
| 8270E | 3511 | Water | Benzo[a]pyrene |
| 8270E | 3511 | Water | Benzo[b]fluoranthene |
| 8270E | 3511 | Water | Benzo[g,h,i]perylene |
| 8270E | 3511 | Water | Benzo[k]fluoranthene |
| 8270E | 3511 | Water | Benzoic acid |
| 8270E | 3511 | Water | Benzyl alcohol |
| 8270E | 3511 | Water | Bis(2-chloroethoxy)methane |
| 8270E | 3511 | Water | Bis(2-chloroethyl)ether |
| 8270E | 3511 | Water | Bis(2-ethylhexyl) phthalate |
| 8270E | 3511 | Water | Butyl benzyl phthalate |
| 8270E | 3511 | Water | Carbazole |
| 8270E | 3511 | Water | Chrysene |
| 8270E | 3511 | Water | Dibenz(a,h)anthracene |
| 8270E | 3511 | Water | Dibenzofuran |
| 8270E | 3511 | Water | Diethyl phthalate |
| 8270E | 3511 | Water | Dimethyl phthalate |
| 8270E | 3511 | Water | Di-n-butyl phthalate |
| 8270E | 3511 | Water | Di-n-octyl phthalate |
| 8270E | 3511 | Water | Fluoranthene |
| 8270E | 3511 | Water | Fluorene |
| 8270E | 3511 | Water | Hexachlorobenzene |
| 8270E | 3511 | Water | Hexachlorobutadiene |
| 8270E | 3511 | Water | Hexachlorocyclopentadiene |
| 8270E | 3511 | Water | Hexachloroethane |
| 8270E | 3511 | Water | Indeno[1,2,3-cd]pyrene |
| 8270E | 3511 | Water | Isophorone |
| 8270E | 3511 | Water | Naphthalene |
| 8270E | 3511 | Water | Nitrobenzene |
| 8270E | 3511 | Water | N-Nitrosodimethylamine |
| 8270E | 3511 | Water | N-Nitrosodi-n-propylamine |
| 8270E | 3511 | Water | N-Nitrosodiphenylamine |
| 8270E | 3511 | Water | Pentachlorophenol |
| 8270E | 3511 | Water | Phenanthrene |
| 8270E | 3511 | Water | Phenol |
| 8270E | 3511 | Water | Pyrene |
| 8270E | 3511 | Water | Pyridine |
| SM 2320B | | Water | Bicarbonate Alkalinity as CaCO3 |
| SM 2320B | | Water | Carbonate Alkalinity as CaCO3 |

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Laboratory: Eurofins Calscience (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------|---|-----------------------|-----------------|
| A2LA | Dept. of Defense ELAP | 7296.01 | 11-30-26 |
| A2LA | ISO/IEC 17025 | 7296.01 | 11-30-26 |
| Alaska (UST) | State | 25-005 | 03-02-26 |
| Arizona | State | AZ0830 | 11-16-25 |
| California | Los Angeles County Sanitation Districts | 9257304 | 07-31-26 |
| California | SCAQMD LAP | 17LA0919 | 11-30-25 |
| California | State | 3082 | 07-31-26 |
| Kansas | NELAP | E-10420 | 07-31-26 |
| Nevada | State | CA00111 | 09-10-25 |
| Oregon | NELAP | 4175 | 09-18-25 |
| USDA | US Federal Programs | 525-23-159-97150 | 06-08-26 |
| Utah | NELAP | CA00111 | 02-28-26 |
| Washington | State | C916 | 10-11-25 |

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Alabama | State | 40150 | 06-30-26 |
| ANAB | ISO/IEC 17025 | L2471 | 02-22-26 |
| Arkansas DEQ | State | 88-00689 | 08-01-26 |
| Florida | NELAP | E81010 | 06-30-26 |
| Georgia | State | E81010(FL) | 06-30-26 |
| Illinois | NELAP | 200041 | 10-31-26 |
| Kansas | NELAP | E-10253 | 10-31-25 |
| Kentucky (UST) | State | 53 | 06-30-26 |
| Louisiana (All) | NELAP | 30976 | 06-30-26 |
| Louisiana (DW) | State | LA017 | 12-31-25 |
| North Carolina (WW/SW) | State | 314 | 12-31-25 |
| Oklahoma | NELAP | 9810 | 12-31-25 |
| Pennsylvania | NELAP | 68-00467 | 01-31-26 |
| South Carolina | State | 96026 | 06-30-26 |
| Tennessee | State | TN02907 | 06-30-26 |
| Texas | NELAP | T104704286 | 09-30-25 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-26 |
| USDA | US Federal Programs | FLGNV23001 | 01-08-26 |
| USDA | US Federal Programs | 525-23-9-22801 | 01-09-26 |
| Virginia | NELAP | 460166 | 06-14-26 |
| West Virginia DEP | State | 136 | 03-31-26 |

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------|-----------------------|-----------------------|-----------------|
| Alaska | State | CA00044 | 06-30-26 |
| Alaska (UST) | State | 17-020 | 02-20-27 |
| ANAB | Dept. of Defense ELAP | L2468 | 01-20-27 |
| ANAB | Dept. of Energy | L2468.01 | 01-20-27 |
| ANAB | ISO/IEC 17025 | L2468.03 | 01-20-27 |
| Arizona | State | AZ0708 | 08-11-26 |

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: HFSNR

Job ID: 885-32182-1

Laboratory: Eurofins Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------|---------------------|-----------------------|-----------------|
| Arkansas DEQ | State | 88-0691 | 05-18-26 |
| California | State | 2897 | 01-31-26 |
| Colorado | State | CA00044 | 08-31-26 |
| Florida | NELAP | E87570 | 06-30-26 |
| Georgia | State | 4040 | 01-29-26 |
| Illinois | NELAP | 200060 | 03-31-26 |
| Kansas | NELAP | E-10375 | 10-31-25 |
| Louisiana | NELAP | 01944 | 06-30-26 |
| Louisiana (All) | NELAP | 01944 | 06-30-26 |
| Maine | State | CA00004 | 04-14-26 |
| Massachusetts | State | M-CA044 | 06-30-26 |
| Michigan | State | 9947 | 01-29-26 |
| Minnesota | NELAP | 2749448 | 12-31-25 |
| Nevada | State | CA00044 | 07-31-26 |
| New Jersey | NELAP | CA005 | 06-30-26 |
| New York | NELAP | 11666 | 04-01-26 |
| Ohio | State | 41252 | 01-29-26 |
| Oregon | NELAP | 4040 | 01-29-26 |
| Texas | NELAP | T104704399-23-17 | 05-31-26 |
| US Fish & Wildlife | US Federal Programs | A22139 | 04-30-26 |
| USDA | US Federal Programs | P330-18-00239 | 02-28-26 |
| Utah | NELAP | CA000442023-16 | 02-28-26 |
| Virginia | NELAP | 460278 | 03-14-26 |
| Washington | State | C581 | 05-05-26 |
| West Virginia (DW) | State | 9930C | 02-01-26 |
| West Virginia DEP | State | 422 | 03-28-26 |
| Wisconsin | State | 998204680 | 08-31-26 |
| Wyoming | State Program | 8TMS-L | 01-28-19 * |

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|--|-------------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-27 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-27 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-27 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-27 |
| Arizona | State | AZ0813 | 12-08-25 |
| California | Los Angeles County Sanitation
Districts | 10259 | 06-30-22 * |
| California | State | 2886 | 07-01-26 |
| Connecticut | State | PH-0241 | 03-31-27 |
| Florida | NELAP | E87689 | 06-30-26 |
| HI - RadChem Recognition | State | n/a | 06-30-26 |
| Illinois | NELAP | 200023 | 11-30-25 |
| Iowa | State | 373 | 12-01-26 |
| Kansas | NELAP | E-10236 | 10-31-25 |
| Kentucky (DW) | State | KY90125 | 12-31-25 |
| Kentucky (WW) | State | KY90125 (Permit
KY0004049) | 12-31-25 |
| Louisiana (All) | NELAP | 106151 | 06-30-26 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: HFSNR

Job ID: 885-32182-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|---------------------|-----------------------|-----------------|
| Louisiana (DW) | State | LA011 | 12-31-25 |
| Maryland | State | 310 | 10-01-26 |
| Massachusetts | State | M-MO054 | 06-30-26 |
| MI - RadChem Recognition | State | 9005 | 06-30-26 |
| Missouri | State | 780 | 06-30-28 |
| Nevada | State | MO00054 | 07-31-26 |
| New Jersey | NELAP | MO002 | 06-30-26 |
| New Mexico | State | MO00054 | 06-30-26 |
| New York | NELAP | 11616 | 03-31-26 |
| North Carolina (DW) | State | 29700 | 06-30-26 |
| North Dakota | State | R-207 | 06-30-25 * |
| Oklahoma | NELAP | 9997 | 12-31-25 |
| Oregon | NELAP | 4157 | 09-01-26 |
| Pennsylvania | NELAP | 68-00540 | 02-28-26 |
| South Carolina | State | 85002 | 06-30-25 * |
| Texas | NELAP | T104704193 | 07-31-26 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-26 |
| USDA | US Federal Programs | 525-23-138-94730 | 05-18-26 |
| Utah | NELAP | MO00054 | 07-31-26 |
| Virginia | NELAP | 460230 | 06-14-26 |
| Washington | State | C592 | 08-31-26 |
| West Virginia DEP | State | 381 | 10-31-25 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain-of-Custody Record

Client: Daniel B Stephens & Associates

Turn-Around Time:

Standard Rush

Mailing Address: 6501 Americas Parkway

Project Name: HFSNR

NE, Albuquerque NM 87110

Project #: PO # 451250442

Phone #: 505 822 9400

email or Fax#: EBastien@geo-logic.com

Project Manager: E. Bastien

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Sampler: 1T / SR

On Ice: Yes No

of Coolers: 4 *chucky*

Cooler Temp (including CF): *see remarks*

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 8011) | PAHs by 8270SIMS | RCRA 8 Metals | Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) | |
|---------|------|--------|---------------------|----------------------|-------------------|----------|----------------------------|----------------------------|----------------------------|-------------------|------------------|---------------|--|------------|-----------------|---------------------------------|--------------------------|
| 8/28/25 | 1400 | AO | WDW-1-mw-1-20250828 | Various | Various | | | | | | | | | | | | <i>see attached list</i> |
| | 1300 | | DUP-20250828 | | | | | | | | | | | | | | <i>XX</i> |
| | | | Trip Blank | | | | | | | | | | | | | | <i>XX</i> |

Date: 8/29/25 Time: 8:14 Relinquished by: S. Pr...

Received by: [Signature] Via: 020 Date: 8/29/25 Time: 8:14

Date: Time: Relinquished by:

Received by: Via: Date: Time:

Remarks: *see attached list*
 $4.6 + 0.2 = 4.8$
 $4.0 + 0.2 = 4.2$
 $0.6 + 0.2 = 0.8$
 $1.1 + 0.2 = 1.3$



Environment Te

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87105

Tel. 505-345-3975 Fax 505-345-4107



885-32182 COC

Analysis Request

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Table 1. Analytical Parameters
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| Parameter | Laboratory Method | Concentration (mg/L ^a) | | Bottle | Preservative | Holding Time |
|-----------------------|-------------------|------------------------------------|-----------------|---------------------|------------------|--------------|
| | | NMAC Standard | Reporting Limit | | | |
| Aluminum, dissolved | 200.7 | 5 | 0.02 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Barium, dissolved | 200.7 | 2 | 0.003 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Beryllium, dissolved | 200.7 | 0.004 | 0.002 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Boron, dissolved | 200.7 | 0.75 | 0.04 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Calcium, dissolved | 200.7 | — | 1 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Cadmium, dissolved | 200.7 | 0.005 | 0.002 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Chromium, dissolved | 200.7 | 0.05 | 0.006 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Cobalt, dissolved | 200.7 | 0.5 | 0.006 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Iron, dissolved | 200.7 | 1 | 0.02 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Magnesium, dissolved | 200.7 | — | 1 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Manganese, dissolved | 200.7 | 0.2 | 0.002 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Molybdenum, dissolved | 200.7 | 1 | 0.008 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Potassium, dissolved | 200.7 | — | 1 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Sodium, dissolved | 200.7 | — | 1 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Nickel, dissolved | 200.7 | 0.2 | 0.01 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Zinc, dissolved | 200.7 | 10 | 0.01 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Antimony, dissolved | 200.8 | 0.006 | 0.001 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Arsenic, dissolved | 200.8 | 0.01 | 0.001 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Copper, dissolved | 200.8 | 1 | 0.001 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Lead, dissolved | 200.8 | 0.015 | 0.0005 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Selenium, dissolved | 200.8 | 0.05 | 0.001 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Silver, dissolved | 200.7 | 0.05 | 0.005 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|---|-------|---------|----------------|------------------------|---|----------|
| Thallium, dissolved | 200.8 | 0.002 | 0.00025 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Uranium, dissolved | 200.8 | 0.03 | 0.0005 | 1-125 mL HDPE (F+S) | HNO ₃ | 128 days |
| Mercury, total | 245.1 | 0.002 | 0.0002 | 1-250 mL HDPE | HNO ₃ | 28 days |
| Bromide | 300 | — | 0.1 | 1-125 mL HDPE | Unpreserved | 28 days |
| Chloride | 300 | 250 | 0.5 | 1-125 mL HDPE | Unpreserved | 28 days |
| Fluoride | 300 | 1.6 | 0.1 | 1-250 mL HDPE | Unpreserved | 28 days |
| Nitrate | 300 | 10 | 0.1 | 1-125 mL HDPE | Unpreserved | 48 hours |
| Nitrite | 300 | 1 | 0.1 | 1-125 mL HDPE | Unpreserved | 48 hours |
| Sulfate | 300 | 600 | 0.5 | 1-125 mL HDPE | Unpreserved | 28 days |
| Perchlorate (CAS 14797-73-0) | 331.0 | — | 0.00005 | 1-125 mL plastic | Unpreserved | 28 days |
| Cyanide | 335.4 | 0.2 | 0.01 | 1-500 mL plastic amber | NaOH | 14 days |
| 1,2-Dibromoethane (ethylene dibromide, EDB)
(CAS 106-93-4) | 504.1 | 0.00005 | 0.00001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 14 days |
| Perfluorohexane sulfonic acid (PHHxS)
(CAS 355-46-4) | 537 | — | 0.00001 | 2-250 mL HDPE | Unpreserved | 14 days |
| Perfluorooctane sulfonate (PFOS) (CAS 1763-23-1) | 537 | — | 0.00001 | 2-250 mL HDPE | Unpreserved | 14 days |
| Perfluorooctanoic acid (PFOA) (CAS 335-67-1) | 537 | — | 0.00001 | 2-250 mL HDPE | Unpreserved | 14 days |
| Aldrin (CAS 309-00-2) | 8081 | — | 0.0001 | 6-1 L glass amber | Unpreserved | 7 days |
| DDT (CAS 50-29-3) | 8081 | — | 0.0001 | 6-1 L glass amber | Unpreserved | 7 days |
| Dieldrin (CAS 60-57-1) | 8081 | — | 0.0001 | 6-1 L glass amber | Unpreserved | 7 days |
| Polychlorinated biphenyls (PCBs) (CAS 1336-36-3) | 8082 | 0.0005 | 0.00025 | 6-1 L glass amber | Unpreserved | 40 days |
| 2,4,5-TP (Silvex) | 8151 | — | 0.0001 | 1-1 L glass amber | Unpreserved | 14 days |
| 2,4-D (2,4-Dichlorophenoxyacetic acid) | 8151 | — | 0.0001 | 1-1 L glass amber | Unpreserved | 14 days |
| Monochlorobenzene (CAS 108-90-7) | 8260 | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Thiolane 1,1 dioxide (sulfolane) (CAS 126-33-0) | 8270 | — | Narrative only | 6-1 L glass amber | Unpreserved | 7 days |
| 2,4,6-Trinitrotoluene (TNT) (CAS 118-96-7) | 8330 | — | 0.00338 | 6-1 L glass amber | Unpreserved | 14 days |

Notes are provided at the end of the table.

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**Table 1. Analytical Parameters
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| | | | | | | |
|--|-------|-------|----------------|------------------------|---|----------|
| Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
(CAS 121-82-4) | 8330 | — | 0.00338 | 6-1 L glass amber | Unpreserved | 14 days |
| Octrahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
(HMX) (CAS 2691-41-0) | 8330 | — | 0.00338 | 6-1 L glass amber | Unpreserved | 14 days |
| Alkalinity, total | 2320B | — | 20 | 1-250 mL HDPE | Unpreserved | 14 days |
| Bicarbonate | 2320B | — | 20 | 1-250 mL HDPE | Unpreserved | 14 days |
| Carbonate | 2320B | — | 2 | 1-250 mL HDPE | Unpreserved | 14 days |
| Specific conductance (µmhos/cm) | 2510B | — | 10 µmhos/cm | 1-125 mL HDPE | Unpreserved | 28 days |
| Total dissolved solids | 2540C | — | 20 | 1-1 L HDPE | Unpreserved | 7 days |
| Cadmium, dissolved | 6010B | — | 0.002 | 1-125 mL plastic (F&S) | HNO ₃ | 180 days |
| Chlordane | 8081A | — | 0.001 | 2-40 mL VOAs | HCl | 7 days |
| Endosulfan (CAS 115-29-7) | 8081A | — | 0.0001 | 2-40 mL VOAs | HCl | 7 days |
| Endrin | 8081A | — | 0.0001 | 4-40 mL VOAs | HCl | 7 days |
| Heptachlor (and its epoxide) | 8081A | — | 0.0001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| Hexachlorocyclohexane (HCH, lindane): alpha-
HCH; beta-HCH; gamma-HCH; and, technical-HCH | 8081A | — | 0.0001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| Lindane | 8081A | — | 0.0001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| Methoxychlor | 8081A | — | 0.0001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| Toxaphene | 8081A | — | 0.001 | 2-40 mL VOAs | Na ₂ S ₂ O ₃ | 7 days |
| 1,1,1-Trichloroethane (TCA) | 8260B | 0.2 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,1,1,2-Tetrachloroethane | 8260B | 0.01 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,1,2-Trichloroethane | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,1-Dichloroethane | 8260B | 0.025 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,1-Dichloroethene (1,1-DCE) (CAS 75-35-4) | 8260B | 0.007 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,2,4-Trichlorobenzene (CAS 120-82-1) | 8260B | 0.07 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,2,4-Trichlorophenol | 8260B | — | Narrative only | 3-40 mL VOAs | HCl | 14 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|---|-------|-------|-------|--------------|-----|---------|
| 1,2-Dichlorobenzene | 8260B | 0.6 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,2-Dichloroethane (EDC) | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,2-Dichloropropane | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1,4-Dichlorobenzene | 8260B | 0.075 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| 1-Methylnaphthalene (CAS 90-12-0) | 8260B | — | 0.004 | 3-40 mL VOAs | HCl | 14 days |
| 2-Methylnaphthalene (CAS 91-57-6) | 8260B | — | 0.004 | 3-40 mL VOAs | HCl | 14 days |
| Acrolein (CAS 107-02-8) | 8260B | — | 0.01 | 3-40 mL VOAs | HCl | 14 days |
| Acrylonitrile (CAS 107-13-1) | 8260B | — | 0.01 | 3-40 mL VOAs | HCl | 14 days |
| Benzene | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Bromodichloromethane (CAS 75-27-4) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Bromomethane (CAS 74-83-9) | 8260B | — | 0.002 | 3-40 mL VOAs | HCl | 14 days |
| Carbon tetrachloride | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Chlorobenzene | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Chloroform | 8260B | 0.1 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Chloromethane (CAS 74-87-3) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Chloroethene (vinyl chloride) (CAS 75-01-4) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| cis-1,2-dichloroethene | 8260B | 0.07 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Dichlorodifluoromethane (fluorocarbon-12) (CAS 75-71-8) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Ethylbenzene | 8260B | 0.7 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Methyl ethyl ketone | 8260B | — | 0.01 | 3-40 mL VOAs | HCl | 14 days |
| Methyl tertiary-butyl ether (MTBE) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Methylene chloride | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Naphthalene (CAS 91-20-3) | 8260B | — | 0.002 | 3-40 mL VOAs | HCl | 14 days |
| Styrene | 8260B | 0.1 | 0.001 | 3-40 mL VOAs | HCl | 14 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|--|-------|-------|--------|-------------------|-------------|---------|
| Tetrachloroethene (perchloroethylene, PCE)
(CAS 127-18-4) | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Tetrachloromethane (carbon tetrachloride)
(CAS 56-23-5) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Toluene | 8260B | 1 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| trans-1,2-Dichloroethene | 8260B | 0.1 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Tribromomethane (bromoform) (CAS 75-25-2) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Trichloroethylene (TCE) | 8260B | 0.005 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Trichlorofluoromethane (fluorocarbon-11)
(CAS 75-69-4) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Trichloromethane (chloroform) (CAS 67-66-3) | 8260B | — | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Vinyl chloride | 8260B | 0.002 | 0.001 | 3-40 mL VOAs | HCl | 14 days |
| Xylenes (total) including m-xylene, o-xylene and
p-xylene | 8260B | 0.62 | 0.002 | 3-40 mL VOAs | HCl | 14 days |
| 1,4-Dioxane (CAS 123-91-1) | 8270C | — | 0.001 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4,5-Trichlorophenol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4,6-Trichlorophenol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4-Dichlorophenol (CAS 120-83-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4-Dinitro-o-cresol (CAS 534-52-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,4-Dinitrotoluene | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 2,6-Dinitrotoluene (2,6-DNT) (CAS 606-20-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 3,4-Benzofluoranthene (CAS 205-99-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Anthracene (CAS 120-12-7) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Atrazine | 8270C | 0.003 | 0.0015 | 6-1 L glass amber | Unpreserved | 14 days |
| Benzidine (CAS 92-87-5) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Benzo(k)fluoranthene (CAS 207-08-9) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |

Notes are provided at the end of the table.

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Table 1. Analytical Parameters
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| | | | | | | |
|---|--------|--------|---------|-------------------|-------------|---------|
| Benzo-a-pyrene | 8270C | 0.0002 | 0.00014 | 6-1 L glass amber | Unpreserved | 14 days |
| bis (2-chloroethyl) ether (CAS 111-44-4) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| bis (2-chloroisopropyl) ether (CAS 108-60-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| bis (chloromethyl) ether (CAS 542-88-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Cresol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Di-2-ethylhexyl phthalate (DEHP) (CAS 117-81-7) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Dibutyl phthalate (CAS 84-74-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 3,3-Dichlorobenzidine (CAS 91-94-1) | 8270 C | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Dichloropropenes (CAS 542-75-6) | 8270C | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Diethyl phthalate (DEP) (CAS 84-66-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Dimethyl phthalate (DMP) (CAS 131-11-3) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Dinitrophenols (CAS 51-28-5) | 8270C | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Diphenylhydrazine (CAS 122-66-7) | 8270C | — | 0.0001 | 6-1 L glass amber | Unpreserved | 14 days |
| Fluoranthene (CAS 206-44-0) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Fluorene (CAS 86-73-7) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Hexachlorobenzene (CAS 118-74-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Hexachlorobutadiene (CAS 87-68-3) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Hexachlorocyclopentadiene (CAS 77-47-4) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Hexachloroethane | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Isophorone (CAS 78-59-1) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| m-Cresol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Nitrobenzene | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| N-nitrosodibutylamine (CAS 924-16-3) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| N-nitrosodiethylamine (CAS 55-18-5) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| N-nitrosodimethylamine (CAS 62-75-9) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |

Notes are provided at the end of the table

March 5 2025

DB22 13 4 | Document4

Table 1. Analytical Parameters
Page 7 of 9

| | | | | | | |
|--|------------------|---------|--------|-------------------|--------------------------------|------------|
| N-nitrosodiphenylamine (CAS 86-30-6) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| N-nitrosopyrrolidine (CAS 930-55-2) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| o-Cresol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| PAHs (total naphthalene plus monomethylnaphthalenes) | 8270C | 0.03 | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| p-Cresol | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Pentachlorobenzene (CAS 608-93-5) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Pentachlorophenol | 8270C | 0.001 | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Phenanthrene (CAS 85-01-8) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Phenol (CAS 108-95-2) | 8270C | 0.005 | 0.0005 | 2-1 L glass amber | H ₂ SO ₄ | 7 days |
| Polynuclear aromatic hydrocarbons (PAHs) | 8270C | — | 0.0003 | 6-1 L glass amber | Unpreserved | 14 days |
| Prometon (CAS 1610-18-0) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Pyrene (CAS 129-00-0) | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| Pyridine | 8270C | — | 0.0005 | 6-1 L glass amber | Unpreserved | 14 days |
| 1,2,4,5-Tetrachlorobenzene (CAS 95-94-3) | 8270E | — | 0.0005 | 6-1 L glass amber | Unpreserved | 7 days |
| Radium-226 and -228 combined (pCi/L) | 903.0 and 904.0 | 5 pCi/L | <5 | 2-1 L HDPE | HCl | 180 days |
| pH (s.u.) | 9040C | 6-9 | ~2-12 | 1-1 L HDPE | Unpreserved | 15 minutes |
| Cation/anion balance | Calculation | — | NA | — | — | — |
| Temperature (°C) | Provided with pH | — | — | — | — | — |

Source. 20.6.2.3103 NMAC and 20.6.2.7 NMAC "Toxic Parameters"

^a Unless otherwise noted

- mg/L = Milligrams per liter
- = Unspecified
- µmhos/cm = Micromhos per centimeter
- pCi/L = Picocuries per liter
- s.u = Standard units
- NA = Not applicable

Notes are provided at the end of the table.

March 5, 2025

DB22 1334 | Document4

ORIGIN ID:ABQA (505) 345-3975
SAMPLE RECEIVING
EUROFINS ABQ
4901 HAWKINS NE

SHIP DATE: 02SEP25
ACTWGT: 51.00 LB
CAD: 17170277/INET4535

ALBUQUERQUE, NM 87109
UNITED STATES US

BILL SENDER

TO **SAMPLE RECIEVING**
EUROFINS TUSTIN
2841 DOW AVE
SUITE 100
TUSTIN CA 92780

58GJ2150E69F2

(714) 895-5494

REF:

INV:

DEPT:



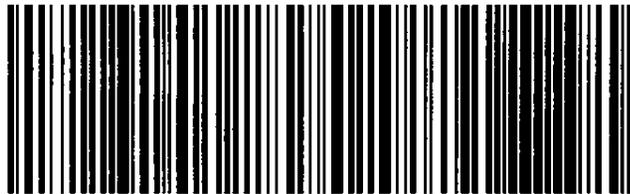
WED - 03 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 8840 5032 9923
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92780

XA DTHA

CA-US **SNA**



885-32182 Waybill

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Eurofins Albuquerque

4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record



| | | | | | | | | | |
|---|--|------------------------------|-----------------------------|--|--|--------------------------------------|-------------------------------|----------------------------|-----------------------------|
| Client Information (Sub Contract Lab) | | Sampler: N/A | | Lab PM: Bolte, Jackie | | Carrier Tracking No(s): N/A | | COC No: 885-6386.1 | |
| Client Contact: Shipping/Receiving | | Phone: N/A | | E-Mail: jackie.bolte@et.eurofinsus.com | | State of Origin: New Mexico | | Page: Page 1 of 1 | |
| Company: TestAmerica Laboratories, Inc. | | | | Accreditations Required (See note): NELAP - Oregon | | | | Job #: 885-32182-1 | |
| Address: 13715 Rider Trail North, | | Due Date Requested: 9/9/2025 | | Analysis Requested | | | | Preservation Codes: | |
| City: Earth City | | TAT Requested (days): N/A | | | | | | | |
| State, Zip: MO, 63045 | | PO #: N/A | | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Total Number of containers | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | WO #: N/A | | | | | | | |
| Email: N/A | | Project #: 88503077 | | 903.0/PrecSep_21 Standard Target List | | 904.0/PrecSep_0 Standard Target List | | Other: N/A | |
| Project Name: HFSNR | | SSOW#: N/A | | Special Instructions/Note: | | | | | |
| Site: N/A | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Preservation Code: | | | |
| WDW-1MW-1-20250828 (885-32182-1) | | 8/28/25 | 14:00 Mountain | G | Water | X X | | 4 | |
| DUP-20250828 (885-32182-2) | | 8/28/25 | 13:00 Mountain | G | Water | X X | | 4 | |
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| <p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p> | | | | | | | | | |
| Possible Hazard Identification | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | |
| Unconfirmed | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | Primary Deliverable Rank: 2 | | Special Instructions/QC Requirements: | | | | |
| Empty Kit Relinquished by: | | | Date: | | Time: | | Method of Shipment: | | |
| Relinquished by: | | | Date/Time: 9/6/25 15:42 | | Company: | | Received by: | | Date/Time: 0830 SEP 03 2025 |
| Relinquished by: | | | Date/Time: | | Company: | | Received by: Cheyenne Forrest | | Date/Time: |
| Relinquished by: | | | Date/Time: | | Company: | | Received by: | | Date/Time: |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | | Cooler Temperature(s) °C and Other Remarks: | | | | |



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4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record



| Client Information (Sub Contract Lab) | | Sampler: N/A | | Lab PM: Bolte, Jackie | | Carrier Tracking No(s): N/A | | COC No: 885-6384 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------------------------------|-------------|--|--|-----------------------------|---------|--------------------|---------------------------------|----------------------------|--|--|--|--|--|--|--|--|--|-------|---|----------------------------|--|--|--|--|--|--|--|---|---|---|--|--|--|--|--|--|--|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------|--|
| Client Contact: Shipping/Receiving | | Phone: N/A | | E-Mail: jackie_bolte@et.eurofinsus.com | | State of Origin: New Mexico | | Page: Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: Eurofins Environment Testing Southeast L | | | | Accreditations Required (See note): NELAP - Oregon | | | | Job #: 885-32182-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 3355 McLemore Drive, Pensacola, FL, 32514 | | Due Date Requested: 9/9/2025 | | <table border="1"> <thead> <tr> <th colspan="10">Analysis Requested</th> </tr> <tr> <th>420.4</th> <th>8270E_QQQ_AGchm18511(MOD) Routine A + B Mix</th> <th>8270E/3610C_LVI(MOD) 8270E</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> </tbody> </table> | | | | | | Analysis Requested | | | | | | | | | | 420.4 | 8270E_QQQ_AGchm18511(MOD) Routine A + B Mix | 8270E/3610C_LVI(MOD) 8270E | | | | | | | | X | X | X | | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | Preservation Codes: - | |
| Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 420.4 | 8270E_QQQ_AGchm18511(MOD) Routine A + B Mix | 8270E/3610C_LVI(MOD) 8270E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Phone: 850-474-1001(Tel) 850-478-2671(Fax) | | PO #: N/A | | Project #: 88503077 | | SSOW#: N/A | | Other: N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email: N/A | | WO #: N/A | | Project Name: HFSNR | | Site: N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | | | | | Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WDW-1MW-1-20250828 (885-32182-1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DUP-20250828 (885-32182-2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Possible Hazard Identification | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unconfirmed Deliverable Requested I, II, III, IV, Other (specify) | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deliverable Requested I, II, III, IV, Other (specify) | | | | | Primary Deliverable Rank. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty Kit Relinquished by | | | | | Date | | Time | | Method of Shipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <i>[Signature]</i> | | | | | Date/Time: 09/02/25 15:20 | | Company | | Received by: <i>[Signature]</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: | | | | | Date/Time: | | Company | | Received by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: | | | | | Date/Time: | | Company | | Received by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No. | | | Cooler Temperature(s) °C and Other Remarks: 5-8°C 1210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Eurofins Albuquerque

4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record



eurofins

Loc: 885
Et **32182**

| Client Information (Sub Contract Lab) | | Sampler:
N/A | Lab PM:
Bolte, Jackie | Carrier Tracking No(s):
N/A | COC No:
885-6378.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---|--------------------------------|-----------------------|---|---|----------------------------------|---|--------------------|----------------------------|--|----------------------------|--|--|-----------------------------------|----------------------------|--|--|----------------|----------------------------------|-------|--|--|--|----------------------------|--|---|-------|---|---|---------|----------------|---|-------|--|---|--|--|---|---|---|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|
| Client Contact:
Shipping/Receiving | | Phone:
N/A | E-Mail:
jackie.bolte@et.eurofinsus.com | State of Origin:
New Mexico | Page:
Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company:
Eurofins Environment Testing Southwest | | | Accreditations Required (See note):
NELAP - Oregon | | Job #:
885-32182-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address:
2841 Dow Avenue, Suite 100,
City:
Tustin
State, Zip:
CA, 92780 | | Due Date Requested:
9/9/2025 | <table border="1"> <thead> <tr> <th colspan="10">Analysis Requested</th> </tr> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8330/8330_P_SARoutine Nitroaromatics & Nitramines List</th> <th>8161A/8161A_AP Routine Herbicides List (Standard Spike</th> <th>331</th> <th>4600_CN_EI4600_CN_CTotal Cyanide</th> <th colspan="4"></th> <th>Total Number of containers</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td></td> </tr> </tbody> </table> | | | Analysis Requested | | | | | | | | | | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8330/8330_P_SARoutine Nitroaromatics & Nitramines List | 8161A/8161A_AP Routine Herbicides List (Standard Spike | 331 | 4600_CN_EI4600_CN_CTotal Cyanide | | | | | Total Number of containers | | | X | X | X | X | | | | | 4 | | | X | X | X | X | | | | | 4 | | | | | | | | | | | |
| Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Project Name:
HFSNR | | PO #:
N/A | <table border="1"> <thead> <tr> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</th> <th>Preservation Code:</th> <th colspan="8">Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>G</td> <td>Water</td> <td></td> <td colspan="8"></td> </tr> <tr> <td>G</td> <td>Water</td> <td></td> <td colspan="8"></td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="8"></td> </tr> </tbody> </table> | | | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air) | Preservation Code: | Special Instructions/Note: | | | | | | | | G | Water | | | | | | | | | | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air) | Preservation Code: | | | | Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Email:
N/A | | WO #:
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

| | | | | | |
|--|-------------------|--|--------------|---------------------------------------|----------|
| Possible Hazard Identification | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | |
| Unconfirmed | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Primary Deliverable Rank: 2 | | Special Instructions/QC Requirements: | |
| Empty Kit Relinquished by: | | Date: | Time: | Method of Shipment: | |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Custody Seals Intact:
△ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:
2.9/3.2 SV | | | |

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-32182-1

Login Number: 32182

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-32182-1

Login Number: 32182

List Number: 3

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 09/03/25 12:12 PM

| Question | Answer | Comment |
|--|--------|------------------------------------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | Seal present with no number. |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-32182-1

Login Number: 32182

List Number: 4

Creator: Pardonner, Brett

List Source: Eurofins Pensacola

List Creation: 09/03/25 05:36 PM

| Question | Answer | Comment |
|--|--------|------------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 5.8°C IR10 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-32182-1

Login Number: 32182

List Number: 5

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 09/03/25 03:53 PM

| Question | Answer | Comment |
|--|--------|------------------------------------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.7c |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-32182-1

Login Number: 32182

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 09/03/25 01:06 PM

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Appendix L

Effluent Chemistry

HF SINCLAIR WWTP EFFLUENT CONCENTRATIONS INJECTED INTO WELLS WDW-1, WDW-2, WDW-3, AND WDW-4

*< = value less than the laboratory reporting limit (RL)

ND = not detected at elevated MDL

Table with columns for Parameter, Units, UICI-8 Condition 2.A Regulatory Level (a), and sampling dates from 3/26/2019 to 9/18/2025. Rows include various chemical parameters like Alkalinity, Conductivity, and heavy metals.

(a) TCLP = Toxicity Characteristic Leaching Procedure with regulatory level given in 40 CFR 261.24(b)
(b) TCLP parameters run as both total and filtered fractions; all results less than corresponding regulatory level
(c) Lab reports include TCLP metals analyzed with reporting limit (RL) less than TCLP regulatory level

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

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

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

COMMENTS

Action 522222

COMMENTS

| | |
|---|---|
| Operator:
HF Sinclair Navajo Refining LLC
ATTN: GENERAL COUNSEL
Dallas, TX 75201 | OGRID:
15694 |
| | Action Number:
522222 |
| | Action Type:
[UF-DP] Discharge Permit (DISCHARGE PERMIT) |

COMMENTS

| Created By | Comment | Comment Date |
|------------|---|--------------|
| cchavez | The report overall is acceptable but supporting information (i.e., tables, figures and attachments) is not consistently referenced in sections of the report. Water quality data thus far indicates the groundwater is protectable (i.e., TDS < 10,000 ppm) under WQCC 20.6.2 NMAC. Quarterly groundwater sampling continues. The semi-artesian aquifer characteristics indicate WDW-1 MW-1 is prolific enough to be sampled and monitored for water quality information. If borings had been drilled deeper (Note: the original drilling plan was approved by OCD for 150 – 160 ft. bgl based on the presence of significant water wells in the vicinity of the WDWs) at the other WDWs, it is likely that the same aquifer system may be present. | 12/29/2025 |

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CONDITIONS

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CONDITIONS

| Created By | Condition | Condition Date |
|------------|---|----------------|
| cchavez | OCD observations, comments and/or future report recommendations: 1. No regional water table or confined aquifer systems observed. More discontinuous and finite perched and semi-confined aquifers exist. More prolific water bearing zones may be near Gatuna/Salado/Tansil Formation outcrop recharge zones. Figure 3 water wells are abundant likely near GW recharge areas away from the Roswell Aquifer System. WDW-4 appears to be near a recharge area on the map. 2. Boron GW concentration elevated with high pH indicates the source as anthropogenic (Borate Ion). GW is protectable under WQCC 20.6.2 NMAC. 3. Sections of the report could be improved by adding references to associated figures, attachments, etc. located at various locations throughout the report. | 12/29/2025 |