Enterprise Products

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ENTERPRISE PRODUCTS GP, LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

June 10, 2024

Submitted online via OCD E-Permitting:
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Mr. Michael Buchanan
New Mexico Energy, Mineral & Natural Resources
Department of Oil Conservation
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Submittal1: ***2023 Supplemental Corrective Action Report*** (Ensolum, April 15, 2024)
Submittal2: ***2022 Supplemental Corrective Action Report*** (Ensolum, March 1, 2024)
Submittal3: ***2021 Supplemental Corrective Action Report*** (Ensolum, November 27, 2023)
RE: Enterprise Field Services, LLC
South Carlsbad Compressor Station – 2009 Condensate Release
Carrasco Road and CR 710, Carlsbad, Eddy Co., NM [32.313436° N, 104.136360° W]
NMOCD Incident ID: nAPP2134932726

Dear Mr. Buchanan:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to submit to the New Mexico Oil Conservation Department (OCD) one electronic copy (online via OCD E-Permitting) of the above-referenced documents (Submittal1, Submittal2, and Submittal3, collectively "Submittals") prepared by Ensolum, LLC (Ensolum). The Submittals are associated with the historical release(s) of natural gas condensate (and/or produced liquids) that was discovered during the decommissioning of on-site aboveground storage tanks (ASTs) in November 2009. Activities detailed in Submittals include monitoring well plugging and abandonment (P&A), groundwater monitoring & sampling activities (GWM&S), and phase-separated hydrocarbon (PSH) recovery (intermittent corrective actions) at the above-referenced location (Site).

Submittal1 summarizes on-site activities that occurred between January 1, 2023 and December 31, 2023 ("reporting period" for Submittal1), Submittal2 summarizes on-site activities conducted between January 1, 2022 and December 31, 2022 ("reporting period" for Submittal2), and Submittal3 summarizes on-site activities conducted between January 1, 2021 and December 31, 2021 ("reporting period" for Submittal3). During each reporting period, on-going GWM&S activities were continued to evaluate the magnitude and stability of PSH dissolved-phase hydrocarbon (DPH) plumes in groundwater.

Based on the groundwater aquifer characterization and sampling results of the nested monitoring wells (MW-12S/D and MW-13S/D) installed in 2021, it appears that impacts to the lower confining unit is the result of monitoring well MW-1 being screened across both groundwater-bearing units (GWBU's). On December 15, 2022, monitoring wells MW-1, MW-7, and MW-10 were P&A to prevent any further migration of impacts into the lower confining unit.

Based on the data contained within the attached Submittals, as of December 6, 2023, constituents of concern (COCs) concentrations remain above applicable New Mexico Water Quality Control Commission Groundwater Quality (NMWQCC) standards in at least 2 on-site monitoring wells (MW-11S and MW-12S). Measurable PSH has been consistently observed in monitor wells MW-2 and MW-13S throughout the reporting periods, with maximum thicknesses of 18.26 feet (MW-2, August 2023) and 1.87 feet (MW-13S, August 2021), respectively.

Based on the results contained in the attached Submittals, Enterprise proposes to: 1) continue utilizing pneumatic recovery systems located at monitoring wells MW-2 and MW-13S to remove PSH; 2) continue quarterly GWM&S to further evaluate PSH and DPH plume stability in groundwater; and, 3) evaluate remedial options to expedite Site closure.

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments, or concerns, or require additional information, please contact Scott Drewry via email (sdrewry@eprod.com) or phone (713-381-5696), or our project consultant Beaux Jennings (bjennings@ensolum.com) with Ensolum.

Sincerely,

Jon E. Fields
Director, Field Environmental

ec: NMOCD, Santa Fe - Michael Buchanan < Michael.Buchanan@emnrd.nm.gov >
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2021 SUPPLEMENTAL CORRECTIVE ACTION REPORT

Property:

South Carlsbad Compressor Station
Carrasco Road and CR 710
Carlsbad, Eddy County, New Mexico
32.313436° N, 104.136360° W
(NMOCD Incident ID: nAPP2134932726)

November 27, 2023
Ensolum Project No: 03B1226001

Prepared for:

Enterprise Field Services, LLC
P.O. Box 4324
Houston, Texas 77210-4324
Attn: Mr. Jon E. Fields

Prepared by:

Beaux Jennings
Senior Project Manager

Heather Holthaus
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2021 SUPPLEMENTAL CORRECTIVE ACTION REPORT

South Carlsbad Compressor Station
Carrasco Road and CR 710
Carlsbad, Eddy County, New Mexico
32.313436° N, 104.136360° W
(NMOCD Incident ID: nAPP2134932726)

Ensolum Project No. 03B1226001

1.0 INTRODUCTION

1.1 Site Description & Background

Ensolum, LLC (Ensolum), has completed this Supplemental Corrective Action Report for the Enterprise Field Services, LLC (Enterprise) South Carlsbad Compressor Station located at the northwest corner of Carrasco Road and County Road (CR) 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico [SE1/4 of SE1/4 of S12, T23S, R27E], referred to hereinafter as the "Site" or "subject Site." The Site is currently utilized as a natural gas compressor station.

The Site is currently an operational natural gas compressor station, which formerly included a tank battery on the south/southwestern portion of the property. The tank battery system included four (4) 300-barrel aboveground storage tanks (ASTs) within two (2) earthen berm containment systems. The ASTs contained natural gas condensate/produced liquids separated from the natural gas stream processed at the Site. During the decommissioning activities of the former tank battery, Enterprise personnel identified stained soils indicative of a historical leak.

Between September 16 and December 9, 2019, supplemental site investigation activities were conducted by Ensolum to investigate a potential confined groundwater-bearing unit (GWBU) at the Site. As part of the approved scope of work, one (1) nested monitoring well (MW-11 (S/D)) was advanced to a total depth of 40 feet below ground surface (bgs). The monitoring well was advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. The soil samples were collected continuously from soil cuttings in one or two-foot intervals to the terminus depth of the soil boring. Due to the observed confined GWBU at the Site, the nested well was installed to confirm that there is no communication between the upper and lower GWBU and was advanced in the vicinity of the previously installed monitoring well (MW-1).

Based on the groundwater sampling results of the nested monitoring well MW-11 (S/D) indicating that the lower confining unit had been impacted due to monitoring well MW-1 being screened across both GWBU's, two (2) additional nested monitoring wells (MW-12 (S/D) and MW-13 (S/D)) were installed and advanced to a total depth of 40 feet bgs between June 14 and June 16, 2021. These monitoring wells were installed to confirm that there was no communication between the upper and lower GWBU. The monitoring wells were advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. Up to four (4) soil samples were collected from each monitoring well location based upon the highest photoionization detector (PID) reading, capillary fringe zone, change in lithology, or the terminus of the monitoring well.

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As proposed in the 2021 Work Plan dated March 26, 2021, groundwater sampling was conducted on a quarterly basis. In May 2021, samples were collected from 10 monitoring wells (MW-3 through MW-10, MW-11 (S/D)) to evaluate chemicals of concern (COCs) in the on-Site groundwater. In June 2021, nested monitoring wells (MW-12 (S/D) and MW-13 (S/D)) were installed and sampled, with the exception of MW-13S due to the presence of phase-separated hydrocarbons (PSH) in the well, and then subsequently added to the quarterly sampling list. In August 2021 and November 2021, samples were collected from 13 monitoring wells (MW-3 through MW-10, MW-11 (S/D), MW-12 (S/D), and MW-13D, with the exception of MW-10 in November due to the presence of PSH in the monitoring well.

A Topographic Map depicting the location of the Site is included as **Figure 1**, a Site Vicinity Map is included as **Figure 2,** and a Site Map depicting the location of investigation and corrective action activities, described herein, is included as **Figure 3** in **Appendix A**.

1.2 Chemicals of Concern

The COCs identified at the Site include total petroleum hydrocarbons (TPH) gasoline range organics (GRO)/diesel range organics (DRO)/motor oil range organics (MRO) and benzene, toluene, ethylbenzene, and xylenes (BTEX). Subsequent to documented impact to the initial GWBU, soil and groundwater samples collected from the on-Site monitoring during Site investigation activities were analyzed for the established COC's, including TPH-GRO/DRO/MRO utilizing Environmental Protection Agency (EPA) Method SW-846 #8015M and BTEX utilizing EPA SW-846 Method #8021B and/or #8260.

1.3 Standard of Care & Limitations

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Ensolum's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

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2.0 SITE CHARACTERIZATION

2.1 Geology & Hydrogeology

The Site is located on the western side of the Pecos River Valley. The valley contains the only occurrence of the Gatuna formation of Pleistocene and Tertiary age. In the area of Carlsbad and Loving, New Mexico, the Gatuna formation is as much as 100 meters above the Pecos River floodplain on the east side of the river and only about 30 meters on the west side. Its base is on Permian or Triassic rocks when exposed, but for the most part is buried by floodplain, terrace, caliche or aeolian deposits (Kelley, 1980). In general, the Gatuna formation consists of moderate reddish-orange, friable sandstone, siltstone, and conglomerate, but may locally include gypsum, gray shale, and claystone.

The Gutuna formation may be up to 100 feet thick locally (Vine, 1963). The overburden of the formation at the Site appears to be floodplain deposits ranging in thickness up to eight (8) feet thick. The regional groundwater gradient in the area is to the east toward the Pecos River. Based on soil borings and monitoring wells installed at the Site, it is apparent that the Gatuna formation is saturated and appears to be unconfined. However, recent data suggests that confining or semi confining conditions may also be present. The local hydraulic gradient appears to be dependent on local precipitation events controlling the hydraulic gradient at the site. The depth to groundwater ranges from approximately six (6) to nine (9) feet below ground surface (bgs) at an approximate elevation of 3,057 feet above mean sea level (AMSL).

3.0 SUPPLEMENTAL SITE INVESTIGATION ACTIVITIES

3.1 Soil Boring Installation

Supplemental site investigation activities were performed between March 3 and December 30, 2021. The supplemental site investigation activities were conducted by Beaux Jennings, Shane Diller, Aaron Marquez, and Kelly Lowery, Ensolum environmental professionals. As part of the approved scope of work, two (2) nested monitoring wells (MW-12 (S/D) and MW-13 (S/D)) were advanced in the vicinity of the previously installed monitoring wells MW-1 and MW-2, respectively, to a total depth of 40 feet bgs to confirm that there was no communication between the upper and lower GWBU. The nested monitoring wells were advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. Up to four (4) soil samples were collected from each monitoring well location based upon the highest photoionization detector (PID) reading, capillary fringe zone, change in lithology, or the terminus of the monitoring well.

Upon retrieval from the borehole, each soil sample was immediately divided into portions designated for field screening or laboratory analysis. Field headspace analysis was conducted by placing the portion of the soil sample designated for field screening into a plastic Ziploc® bag. The plastic bag was sealed and then placed in a warm area to promote volatilization. The air above the sample, the headspace, was then evaluated using a PID capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field.

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Petroleum hydrocarbon odors were detected in the soil cuttings collected from soil boring MW-12 at depths ranging from the surface to 22 feet bgs and from soil boring MW 13 at depths ranging from the surface to 18 feet bgs. PID readings were detected in all soil samples collected from the soil boring MW-12S (7'-8'), MW-12S (20'-21'), MW-12S (21'-22'), and MW-12D (28'-29'). PID readings were detected in all soil samples collected from the soil boring MW-13S (7'-8'), MW-13S (19'-20'), and MW-13D (29'-30'). Soil sample MW-12S (7'-8') and soil sample MW-13 (7'-8') exhibited the highest PID readings at 4,527 parts per million (ppm) and 3.4 ppm respectively.

A Site Map which indicates the approximate location of the soil borings/groundwater monitoring wells in relation to pertinent land features and on-Site improvements is included as **Figure 3** (**Appendix A**). Additionally, monitoring well construction details are presented on the soil boring/monitoring well logs included in **Appendix C**.

3.2 Soil Sampling Program

Ensolum's soil sampling program involved submitting up to four (4) soil samples from the soil borings MW-12 and MW-13. The soil samples were collected from the zones exhibiting the highest PID reading, from a change in lithology, or from the capillary fringe, based on the field professional's judgment. Soil sample intervals are presented with the soil sample analytical results (**Table 1**) in **Appendix B** and are provided on the soil boring logs included in **Appendix C**.

Soil samples were collected and placed in laboratory prepared glassware, sealed with custody tape, and placed on ice in a cooler, which was secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Eurofins Xenco, LLC Laboratories (Xenco) in Carlsbad, New Mexico and/or Midland, Texas on standard turnaround.

3.3 Monitoring Well Installation

Prior to initiation of drilling activities, an *Application for Permit to Drill a Well with No Consumptive Use of Water (WR-07)* was submitted to the New Mexico office of the State Engineer prior to the installation of the on-Site monitoring wells. Subsequent to advancement, the soil borings were converted to nested permanent groundwater monitoring wells MW-12(S/D) and MW-13(S/D).

The two (2) double-cased monitoring wells were completed as follows:

- Installation of 2-inch poly vinyl chloride (PVC) casing to approximately 40 feet bgs with up to ten (10) feet of machine slotted PVC (including riser);
- Silica sand approximately two (2) feet above machine slotted PVC with bentonite chips to surface; and
- Concrete pad (approximately 2' x 2') with locking vault cover and cap.

The two (2) shallow monitoring wells were completed as follows:

- Installation of 2-inch PVC casing to approximately 10 feet bgs with up to five (5) feet of machine slotted PVC (including riser);
- Silica sand approximately two (2) feet above machine slotted PVC with bentonite chips to surface; and
- Concrete pad (approximately 2' x 2') with locking vault cover and cap.

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The monitoring wells were developed by surging and removing groundwater with a new, disposable, polypropylene bailer and/or electric submersible pump. The monitoring wells were purged until approximately 20 gallons of water were removed; the purge water appeared to be clear of fine-grained sediment, or purged dry.

Monitoring well construction details are presented on the soil boring/monitoring well logs included in **Appendix C**.

3.4 Monitoring Well Gauging

The on-Site monitoring wells were surveyed in for top-of-casing (TOC) above mean sea level (AMSL) elevations. Groundwater measurements were collected utilizing either an interface probe capable of detecting the presence of PSH or a water level meter. Groundwater measurements were collected during gauging events performed on May 20, 2021, June 29, 2021, August 17, 2021, and November 23, 2021.

PSH was identified in monitoring wells MW-1, MW-2, MW-10, and MW-13S during the most recent gauging event (November 23, 2021) at thicknesses of 2.57 feet, 13.40 feet, 0.01 feet, and 1.30 feet respectively. PSH is currently being recovered at monitoring wells MW-2 and MW-13S utilizing a pneumatic skimmer pump and associated 200-gallon poly tank for fluid storage. The 200-gallon poly tank is emptied out by a vacuum truck and disposed of at a state approved disposal facility as needed.

Groundwater/PSH measurements collected during the gauging events are presented with TOC elevations and corrected groundwater elevations in **Table 4** in **Appendix B.** A groundwater gradient map for the May, August, and November 2021 gauging events are included as **Figure 4A, Figure 4B,** and **Figure 4C** in **Appendix A.**

4.0 GROUNDWATER CLASSIFICATION

4.1 Historical and Regulatory Analysis

Based on Ensolum's review of the historic data and reports available, it appears that the initial GWBU at the Site does not meet the definition of groundwater or aquifer, as defined by the New Mexico Administrative Code (NMAC). Based upon this review, an aquifer characterization and summary of the historical data was recommended to further confirm this statement.

The following are definitions included in the NMAC, Title 19, Natural Resources and Wildlife, Chapter 15, Oil & Gas, Part 2, General Provisions and Definitions:

> 19.15.2.7A(14) states:
> "*Aquifer" means a geological formation, group of formations or a part of a formation that can yield a significant amount of water to a well or spring.*
>
> 19.15.2.7G(10) states:
> "*Ground water" means interstitial water that occurs in saturated earth material and can enter a well in sufficient amounts to be used as a water supply.*
>
> 19.15.2.7E(5) states:
> *"Exempted aquifer" means an aquifer that does not currently serve as a source of drinking water, and that cannot now and will not in the foreseeable future serve as a source of drinking water because:*

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(a) it is hydrocarbon producing;

(b) it is situated at a depth or location which makes the recovery of water for drinking water purposes economically or technologically impractical; or

(c) it is so contaminated that it would be economically or technologically impractical to render that water fit for human consumption.

4.2 Aquifer Characterization

Subsequent to the installation of the nested monitoring wells, a constant rate discharge test was conducted on each nested monitoring well (MW-11(S/D), MW-12(S/D), and MW-13(S/D)) to further evaluate the groundwater bearing unit at the Site. This groundwater classification was performed according to procedures described in 30 Texas Administrative Code (TAC) §350.52 Groundwater Resource Classification and the Texas Commission on Environmental Quality's (TCEQ) Regulatory Guidance Document RG-366/TRRP-8 Groundwater Classification, revised March 2010. Ensolum utilized *Method 2c: Well Yield by Constant Discharge (0.1 gallons per minute (gpm)) Test*. This test was conducted by pumping continuously at a discharge rate equivalent to 0.1 gallons per minute, or 150 gallons per day (gpd), which is the volume necessary to support human habitation. In this method, the wells were pumped as near as practicable to the base of the well screen at a rate equal to 0.1 gpm. The test was complete when either a total water volume of 150 gallons had been produced, when the test well water level falls to the bottom of well (no re-equilibrium), or when test duration reached eight (8) hours, whichever came first.

During the constant rate discharge test, a water level meter was utilized to take measurements on the nested monitoring wells to determine if there was communication between the two (2) aquifers identified on-Site.

From August 3 to August 4, 2021, the constant rate discharge tests were performed in fully penetrating, nested monitoring wells MW-11(S/D), MW-12(S/D), and MW-13(S/D). Immediately before pumping began, static water levels in all nested monitoring wells were recorded. Care was taken to use the same measuring point on the top of the well casing for each well. Water levels were monitored in the respective nested monitoring wells MW-11(S/D), MW-12(S/D), and MW-13(S/D) during the pump tests, and no significant impact on the respective initial or confined GWBUs were noted.

The pumping was monitored continuously, and the discharge rate corrected for deviations due to changes in hydrostatic pressure when the test well water level fell. Frequent measurements during early times were needed to define the drawdown curve. As time since pumping started to increase, the logarithmic scale dictates that less frequent measurements were needed to adequately define the curve. Once complete, the results from each monitoring well were inputted into the Aqtesolv™ software, which is utilized for the design and interpretation of aquifer tests (pumping tests, slug tests, constant-head tests) in confined, leaky, unconfined and fractured aquifers.

Based on the data evaluation using Aqtesolv™, the results are as follows:

Initial GWBU:

The transmissivity (T) for nested monitoring well MW-11S was 0.01748 centimeters squared per second (cm^2/sec), a hydraulic conductivity (K) of 5.17 E-05 cm/sec, and an extrapolated well yield (Q) of 102.46 gallons per day (gpd).

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The transmissivity (T) for nested recovery well MW-12S was 0.0184 cm^2/sec, a hydraulic conductivity (K) of 6.18 E-05 cm/sec, and an extrapolated well yield (Q) of 94.40 gpd.

Due to LNAPL being observed in monitoring well MW-13S, it was determined the results from its constant rate discharge test would be excluded since they were not representative of the initial GWBU Site conditions.

Lower GWBU:

The transmissivity (T) for nested monitoring well MW-11D was 0.03932 cm^2/sec, a hydraulic conductivity (K) of 1.17 E-04 cm/sec, and an extrapolated well yield (Q) of 574.02 gpd.

The transmissivity (T) for nested monitoring well MW-12D was 0.03581 cm^2/sec, a hydraulic conductivity (K) of 8.39 E-05 cm/sec, and an extrapolated well yield (Q) of 525.69 gpd.

The transmissivity (T) for nested monitoring well MW-13D was 0.0965 cm^2/sec, a hydraulic conductivity (K) of 2.44 E-04 cm/sec, and an extrapolated well yield (Q) of 1,080.23 gpd.

Ensolum classified the initial GWBU at the Site in accordance with 30 TAC §350.52 *Groundwater Resource Classification* and the TCEQ Regulatory Guidance Document RG-366/TRRP-8 *Groundwater Classification*, revised March 2010. Pumping-test data, water-well database records, and site reconnaissance observations were evaluated to determine that the classification of the initial GWBU at the Site is a Class 3 groundwater resource, which is not considered to be usable as drinking water; and the lower confined GWBU at the Site was determined to be a Class 2 groundwater resource. In addition, based on the results of the pumping-test data, it was determined that the initial GWBU and the lower confined GWBU at the Site are not in communication with each other.

All pumping test data, plots, formulas, and associated calculations are included in **Appendix E.**

5.0 RESPONSE ACTIONS

5.1 Product Recovery

On August 4, 2021, Ensolum staged a 200-gallon poly tank with a solar battery operated PSH recovery pump for monitoring well MW-13S between monitoring well MW-2 and MW-13S for product recovery from both monitoring wells. Due to equipment failure and additional parts required, the recovery system remained dormant until repairs could be made.

On September 30, 2021, Ensolum installed the PSH recovery pump into monitoring well MW-13S and began product recovery. Monitoring well MW-2 was subsequently tied into the 200-gallon poly tank recovery system.

On October 14, 2021, it is discovered that the PSH recovery pump installed in monitoring well MW-2 has a faulty bladder. Replacement bladders were subsequently ordered.

On October 27, 2021, the bladder is replaced in monitoring well MW-2's PSH recovery pump and resumes product recovery. At this time, 10.25 inches of PSH is gauged in the 200-gallon poly tank.

On December 13, 2021, pump maintenance is performed on monitoring well MW-13S. Approximately 14.5 inches of PSH is gauged in the 200-gallon poly tank.

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On December 30, 2021, Ensolum arrives at the Site and notes that Enterprise personnel have emptied the 200-gallon poly tank utilizing a vacuum truck at some point between December 13, 2021, and December 30, 2021. The recovered PSH was taken off-Site to a state approved disposal facility.

5.2 Waste Management

Recovered groundwater and PSH are temporarily stored on-Site in a 200-gallon poly staged next to monitoring wells MW-13(S/D) and MW-2 and in 55-gallon Department of Transportation (DOT) approved drums. Enterprise personnel utilized a vac-truck to transfer PSH/water stored in the 200-gallon poly tank for proper disposal. Enterprise personnel utilized a vacuum truck to remove the purge water stored in the 55-gallon drums. The purge water was taken off-Site to a state approved disposal facility.

Soil cuttings from soil boring installation were temporarily stored on-Site pending off-Site disposal. Approximately 12 cubic yards of soil was subsequently taken off-Site by Lighthouse to the Orla Landfill Facility in Orla, Texas for proper disposal. Disposal Documentation is provided in **Appendix F**.

6.0 LABORATORY ANALYTICAL PROGRAM

6.1 Laboratory Analytical Methods

The soil samples collected from the nested monitoring wells were analyzed for TPH-GRO/DRO/MRO, BTEX, and total BTEX utilizing EPA Method SW-846 #8015M and BTEX utilizing EPA Method SW-846 #8021B.

The groundwater samples collected from the monitoring wells were analyzed for TPH-GRO/DRO/MRO utilizing EPA Method SW-846 #8015 and BTEX utilizing EPA Method SW-846 #8021B.

Laboratory results for the soil and groundwater samples are summarized in **Table 1** and **Table 3**, respectively, of **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix D**.

6.2 Quality Assurance/Quality Control (QA/QC)

Sampling and analytical techniques have been identified in the text above and conform with the references identified in Subsection B of 20.6.2.3107 NMAC and with 20.6.4.14 NMAC of the water quality standards for interstate and intrastate surface waters in New Mexico.

Soil and groundwater samples were collected in laboratory prepared glassware and placed on ice in a cooler, which was secured with a custody seal. The sample coolers and completed chain-of custody forms were relinquished to Eurofins Xenco in Midland, Texas for standard turn-around results.

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Eurofins Xenco performed the analyses of samples under an adequate and documented quality assurance program to meet the project and data quality objectives. The laboratory's quality assurance program is generally consistent with the quality standards outlined in the National Environmental Laboratory Accreditation Program, as amended. In addition, the data generated by Eurofins Xenco meets the interlaboratory performance standards for the selected analytical method and the performance standards are sufficient to meet the bias, precision, sensitivity, representativeness, and completeness, as specified in the project data quality objectives.

7.0 DATA EVALUATION

7.1 Monitoring Well Gauging

The on-Site monitoring wells were surveyed in for top-of-casing (TOC) AMSL elevations. Groundwater measurements were collected utilizing a water level meter and/or interface probe capable of detecting the presence of water and/or PSH up to an accuracy of 0.01 feet. Groundwater measurements were collected during gauging events performed on May 20, 2021, June 29, 2021, August 17, 2021, and November 23, 2021. Based on the groundwater elevations associated with each of the on-Site monitoring wells, groundwater generally flows to the east/northeast and to the southwest.

PSH was identified in monitoring wells MW-1, MW-2, MW-10, and MW-13S during the most recent gauging event (November 23, 2021) at thicknesses of 2.57 feet, 13.40 feet, 0.01 feet, and 1.30 feet respectively. Groundwater/PSH measurements collected during the gauging events are presented with TOC elevations and corrected groundwater elevations in **Table 4** in **Appendix B.** A groundwater gradient map for the May, August, and November 2021 gauging events are included as **Figure 4A, Figure 4B,** and **Figure 4C** in **Appendix A.**

7.2 Soil Samples

Ensolum's soil sampling program involved submitting up to four soil samples from each soil boring for laboratory analysis. Soil samples were collected from the zone exhibiting the highest PID reading, from a change in lithology, or from the bottom of the soil boring, based on the field professional's judgment. Soil sample intervals are presented with the soil sample analytical results (**Table 1**) in **Appendix B** and are provided on the soil boring logs included in **Appendix C**.

Ensolum compared the BTEX and TPH GRO/DRO/MRO concentrations or laboratory sample detection limits (SDLs) associated with the soil samples collected from the soil borings (MW-12S (7-8, 20-21, and 21-22), MW-12D (28-29), and MW-13S (7-8)) to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division, Remediation Action Levels, referred to hereinafter as the "NMOCD RALs". The results oof the soil sample analysis along with the respective NMOCD RALs are provided in **Table 1** of **Appendix B.**

TPH

Based on the laboratory analytical results, the soil samples collected from MW-13S (19-20) and MW-13D (29-30) did not exhibit TPH concentrations above the laboratory SDLs and/or the applicable NMOCD RALs.

Based on the laboratory analytical results, the soil samples collected from MW-12S (7-8, 20-21, and 21-22), MW-12D (28-29), and MW-13S (7-8) exhibited TPH GRO/DRO/MRO concentrations ranging from 1,030 milligrams per kilogram (mg/kg) to 4,340 mg/kg, which exceed the applicable NMOCD RAL of 100 mg/kg.

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BTEX

Based on the laboratory analytical results, the soil samples collected from MW-12S (7-8, 20-21, and 21-22), MW-12D (28-29), MW-13S (7-8 and 19-20), and MW-13D (29-30) exhibited BTEX concentrations below the laboratory SDLs and/or the applicable NMOCD RALs.

7.3 Groundwater Samples

Prior to sample collection, Ensolum gauged the depth to groundwater/PSH utilizing a water level indicator and/or interface probe capable of detecting water and/or PSH up to 0.01 feet. During one or more of the gauging events, measurable PSH was observed in monitoring wells MW-1, MW-2, and MW-13S. During the November 2021 gauging event, measurable PSH was observed in monitoring well MW-10 and it was subsequently taken off the sampling list.

Ensolum compared the BTEX and TPH GRO/DRO/MRO concentrations or laboratory SDLs associated with the groundwater samples collected from the monitoring wells MW-3 through MW-10, MW-11S/D, MW-12S/D, and MW-13D to the New Mexico Water Quality Control Commission Groundwater Quality Standards, referred to hereinafter as the "NMWQCC Standards". The results of the groundwater sample analysis along with the respective NMWQCC Standards are provided in **Table 3** of **Appendix B**.

It should be noted that the NMWQCC has not established a protection limit for TPH GRO/DRO/MRO in groundwater. Due to the presence of PHS, groundwater samples were not collected from monitoring wells MW-1, MW-2 or MW-13S during this reporting period, or from monitoring well MW-10 in November 2021. Maps indicating the approximate location of groundwater COCs in relation to pertinent land features and on-Site improvements for the May, August and November 2021 sampling events are included as **Figure 5A, Figure 5B,** and **Figure 5C** in **Appendix A**.

TPH

The NMWQCC has not established a protection limit for TPH GRO/DRO/MRO in groundwater. However, these compounds can be evaluated to assess the presence of dissolved phase hydrocarbons in groundwater.

During the May 2021 sampling event, the groundwater samples collected from monitoring wells MW-3 through MW-10, and MW-11(S/D) exhibited TPH GRO/DRO/MRO concentrations ranging from below the laboratory SDLs up to 10.4 milligrams per liter (mg/L).

Nested monitoring wells MW-12(S/D) and MW-13 (S/D) were later installed, and sampled on June 29, 2021, and subsequently added to the sampling list. Monitoring well MW-13S was not sampled due to the presence of PSH in the well. Based on the laboratory analytical results, the groundwater samples collected from monitoring wells MW-12(S/D) and MW-13D during the June 29, 2021 sampling event exhibited TPH GRO/DRO/MRO concentrations ranging from below the laboratory SDLs up to 6.12 mg/L.

During the August 2021 sampling event, the groundwater samples collected from monitoring wells MW-3 through MW-10, MW-11(S/D), MW-12(S/D), and MW-13D exhibited TPH GRO/DRO/MRO concentrations ranging from below the laboratory SDLs up to 11.5 mg/L.

During the November 2021 sampling event, the groundwater samples collected from monitoring wells MW-3 through MW-9, MW-11(S/D), MW-12(S/D), and MW-13D exhibited TPH GRO/DRO/MRO concentrations ranging from below the laboratory SDLs up to 10.6 mg/L.

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BTEX

During the May 2021 sampling event, the groundwater samples collected from monitoring wells MW-3 through MW-10 exhibited BTEX concentrations below laboratory SDLs and/or the applicable NMWQCC Standards.

Based on the laboratory analytical results, the groundwater samples collected from monitoring wells MW-11S and MW-11D exhibited benzene concentrations of 0.789 mg/L and 0.0352 mg/L, respectively, which exceed the applicable NMWQCC Standard of 0.005 mg/L.

Nested monitoring wells MW-12(S/D) and MW-13(S/D) were later installed, and sampled on June 29, 2021, and subsequently added to the sampling list. Monitoring well MW-13S was not sampled due to the presence of PSH in the well. During the June 29, 2021, sampling event, the groundwater sample collected from monitoring well MW-13D exhibited BTEX concentrations below laboratory SDLs, which does not exceed the applicable MNWQCC Standards.

Based on the laboratory analytical results, the groundwater samples collected from monitoring wells MW-12S and MW-12D exhibited benzene concentrations of 0.527 mg/L and 0.252 mg/L, respectively, which exceed the applicable NMWQCC Standard of 0.005 mg/L. Monitoring well MW-12S also exhibited a total xylene concentration of 0.625 mg/L, which exceeds the applicable NMWQCC Standard of 0.62 mg/L.

During the August 2021 sampling event, the groundwater samples collected from monitoring wells MW-3 through MW-8, MW-10, MW-11D and MW-13D exhibited BTEX concentrations below the laboratory SDLs and/or the applicable MNWQCC Standards.

Based on the laboratory analytical results, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-12S, and MW-12D exhibited benzene concentrations of 0.0845 mg/L, 0.908 mg/L, 0.848 mg/L, and 0.232 mg/L, respectively, which exceed the applicable NMWQCC Standard of 0.005 mg/L. Monitoring well MW-12S also exhibited a total xylene concentration of 0.787 mg/L, which exceeds the applicable NMWQCC Standard of 0.62 mg/L.

During the November 2021 sampling event, the groundwater samples collected from monitoring wells, MW-3 through MW-8, and MW-13D exhibited BTEX concentrations below the laboratory SDLs and/or the applicable MNWQCC Standards.

Based on the laboratory analytical results, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-11D, MW-12S, and MW-12D exhibited benzene concentrations of 0.0742 mg/L, 0.866 mg/L, 0.00983 mg/L, 1.34 mg/L, and 0.182 mg/L, respectively, which exceed the applicable NMWQCC Standard of 0.005 mg/L. Monitoring well MW-12S also exhibited a total xylene concentration of 1.01 mg/L, which exceeds the applicable NMWQCC Standard of 0.62 mg/L.

During the most recent gauging event (November 2021), the monitoring wells MW-1, MW-2, MW-10 and MW-13S contained 2.57 feet, 13.40 feet, 0.01 feet and 1.30 feet of PSH, respectively.

The next Site-wide groundwater gauging and sampling event is scheduled for March 2022.

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The laboratory analytical results for soil and groundwater are summarized in **Table 1** and **Table 3** of **Appendix B**. Groundwater COC Concentration Maps for each of the sampling events are included in **Appendix A** as **Figure 5A** through **Figure 5C**.

8.0 FINDINGS AND RECOMMENDATIONS

This *Supplemental Corrective Action Report* (SCAR) covers response actions from December 2020 through December 2021 and documents monitoring well installation, geophysical study, recovery system installation, PSH recovery, disposal, and groundwater monitoring activities subsequent to the submittal of the *Annual Groundwater Monitoring Report* (AGMR) dated August 26, 2021, which covered groundwater monitoring activities from May 2020 to November 2020.

- The objective of the supplemental investigation and sampling activities at the Site was to further evaluate the presence, magnitude, and extent of COCs in the groundwater and to compare the results to the NMWQCC Standards.

- **Guidance Document RG-366/TRRP-8 Groundwater Classification, revised March 2010. Pumping-test data, water-well database records, and site reconnaissance observations were evaluated to determine that the classification of the initial GWBU at the Site is a Class 3 groundwater resource and the classification of the lower confined GWBU at the Site is a Class 2 groundwater resource. In addition, based on the results of the pumping-test data, it was determined that the initial GWBU and the lower confined GWBU at the Site are not in communication with each other.**

- In June 2021, as part of the approved scope of work, two (2) nested monitoring wells (MW-12 (S/D) and MW-13 (S/D)) were advanced in the vicinity of the previously installed monitoring wells MW-1 and MW-2, respectively, to a total depth of 40 feet bgs to confirm that there was no communication between the upper and lower GWBU. The nested monitoring wells were advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. Up to four (4) soil samples were collected from each monitoring well location based upon the highest PID reading, capillary fringe zone, change in lithology, or the terminus of the monitoring well.

- **Based on the laboratory analytical results, the soil samples collected from MW-12S (7-8, 20-21, and 21-22), MW-12D (28-29), and MW-13S (7-8) exhibited TPH GRO/DRO/MRO concentrations ranging from 1,030 milligrams per kilogram (mg/kg) to 4,340 mg/kg, which exceed the applicable NMOCD RAL of 100 mg/kg.**

- **During the May/June 2021 sampling event, the groundwater samples collected from monitoring wells MW-11S, MW-11D, MW-12S and MW-12-D exhibited benzene concentrations ranging from 0.252 mg/L to 0.789 mg/L, which exceed the applicable NMWQCC Standard of 0.005 mg/L. Monitoring well MW-12S also exhibited a total xylene concentration of 0.625 mg/L, which exceeds the applicable NMWQCC Standard of 0.62 mg/L.**

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- **During the August 2021 sampling event, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-12S, and MW-12D exhibited benzene concentrations ranging from 0.232 mg/L to 0.908 mg/L, which exceed the applicable NMWQCC Standard of 0.005 mg/L. Monitoring well MW-12S also exhibited a total xylene concentration of 0.787 mg/L, which exceeds the applicable NMWQCC Standard of 0.62 mg/L.**

- **During the November 2021 sampling event, groundwater samples collected from monitoring wells MW-9, MW-11S, MW-11D, MW-12S, and MW-12D exhibited benzene concentrations ranging from 0.00983 mg/L to 1.34 mg/L, which exceed the applicable NMWQCC Standard of 0.005 mg/L. Monitoring well MW-12S also exhibited a total xylene concentration of 1.01 mg/L, which exceeds the applicable NMWQCC Standard of 0.62 mg/L.**

- **During the most recent gauging event (November 2021), the monitoring wells MW-1, MW-2, MW-10 and MW-13S contained 2.57 feet, 13.40 feet, 0.01 feet and 1.30 feet of PSH, respectively.**

- **PSH will continue to be recovered utilizing two (2) pneumatic recovery systems in monitoring wells MW-2 and MW-13S to remove free-standing product from each monitoring well.**

- **Based on the groundwater sampling results of the nested monitoring well MW-11S/D, MW-12S/D and MW-13S/D, it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both GWBU's.**

- **Monitoring wells MW-1, MW-7 and MW-10 will be plugged and abandoned (P&A) to prevent any further migration of impacts into the lower confining unit.**

Based on the on-Site assessment activities and laboratory analytical results, additional investigation and/or remediation appears warranted at this time.

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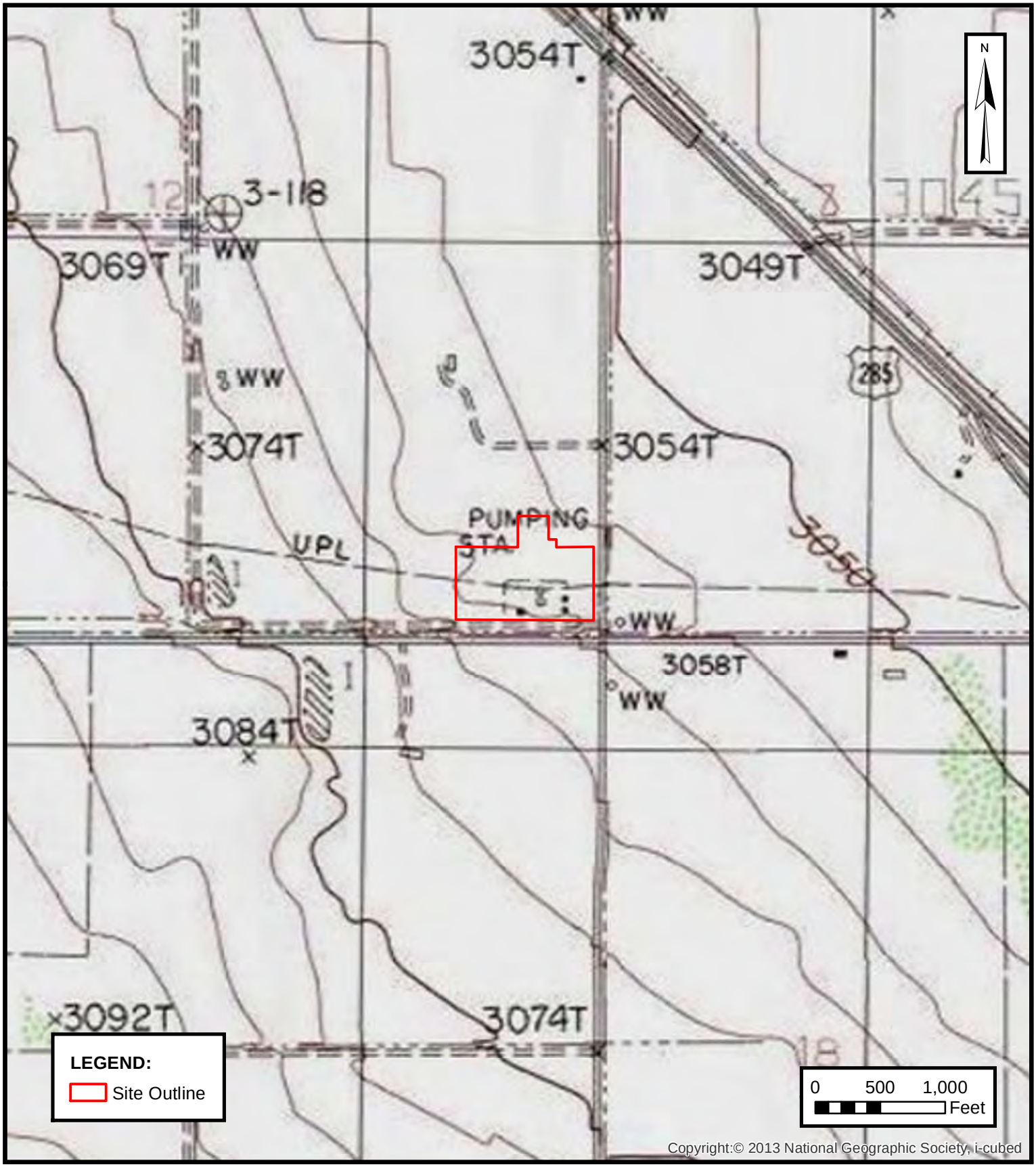
APPENDIX A

Figures



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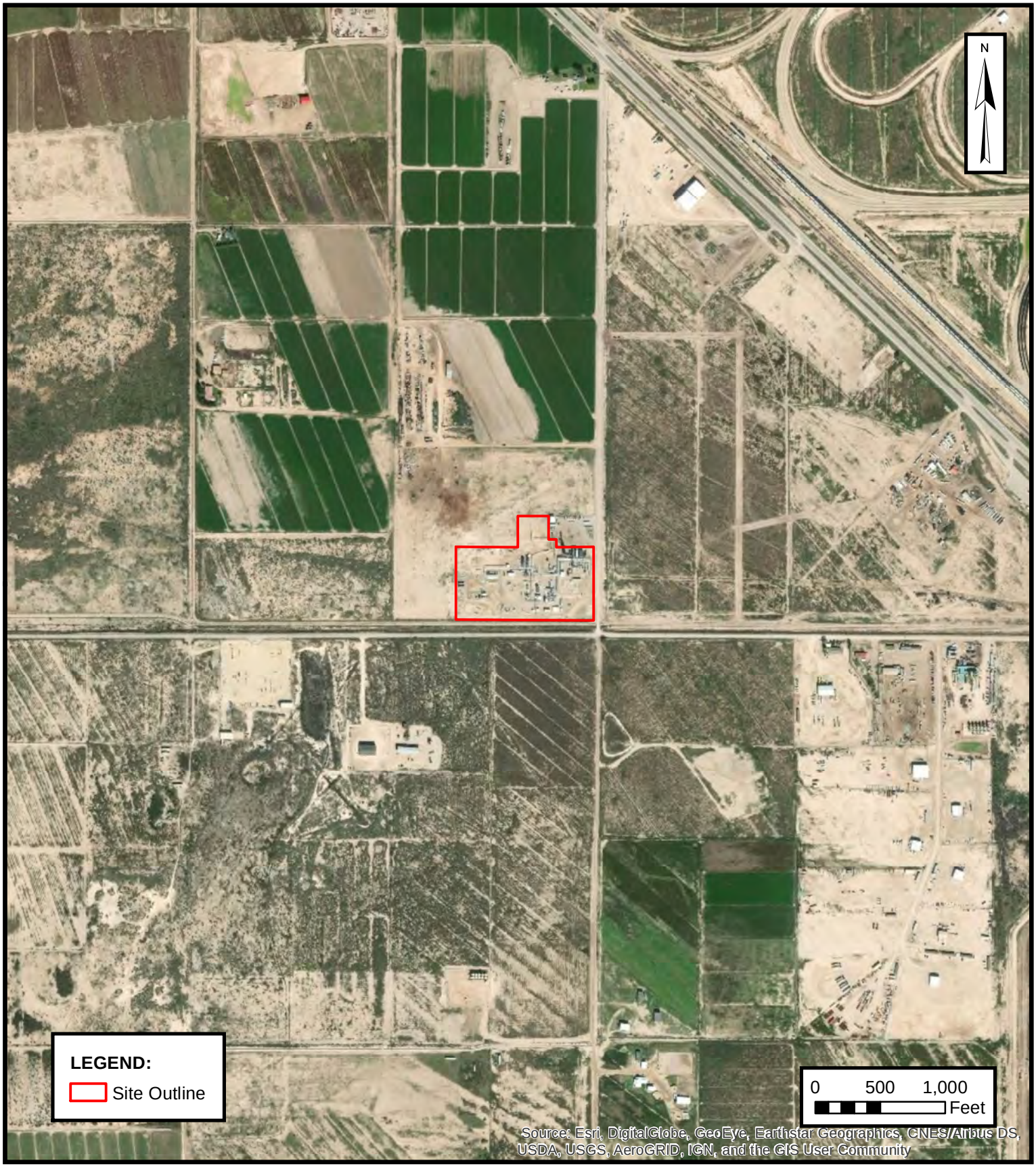
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION
Carrasco Road and CP 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

PROJECT NUMBER: 03B1226001

FIGURE
1



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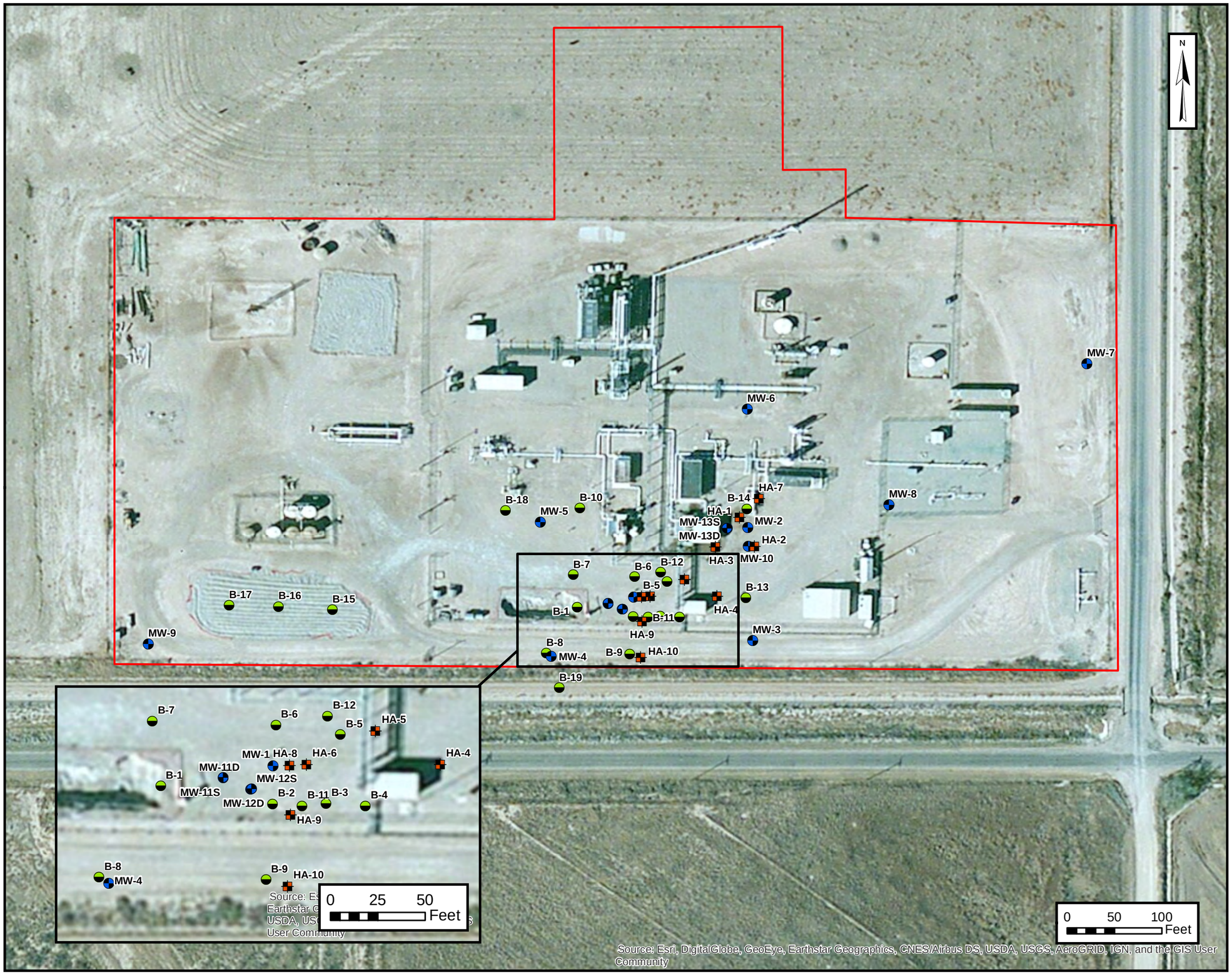
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION
Carrasco Road and CP 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

PROJECT NUMBER: 03B1226001

FIGURE
2



LEGEND:

- Site Outline
- Soil Boring Location
- Hand Auger Location
- Monitoring Well Location

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SITE MAP

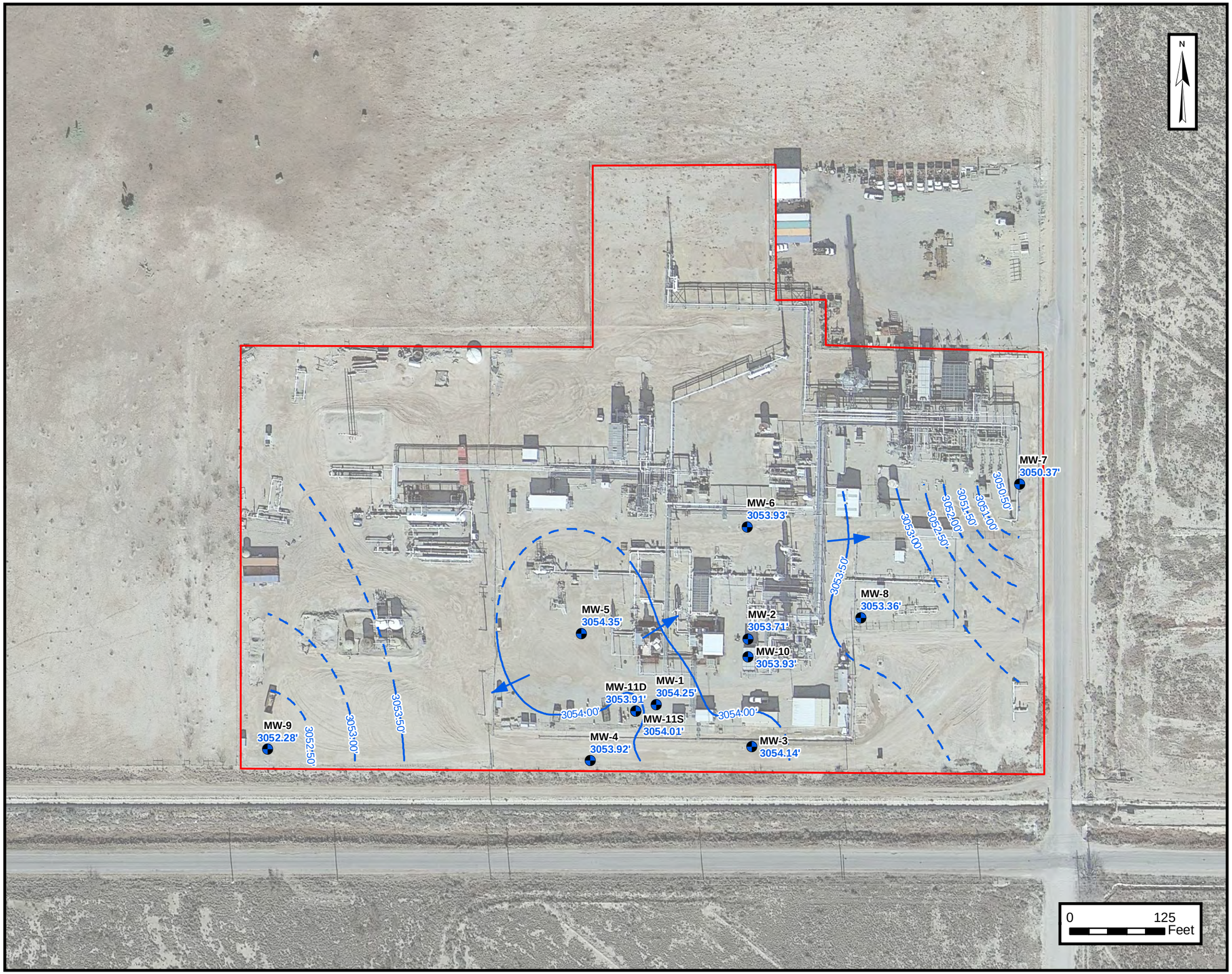
ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CP 710, Eddy County, New Mexico
32313436° N, 104.136360° W

FIGURE

3

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.50')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in **blue** and listed in feet.

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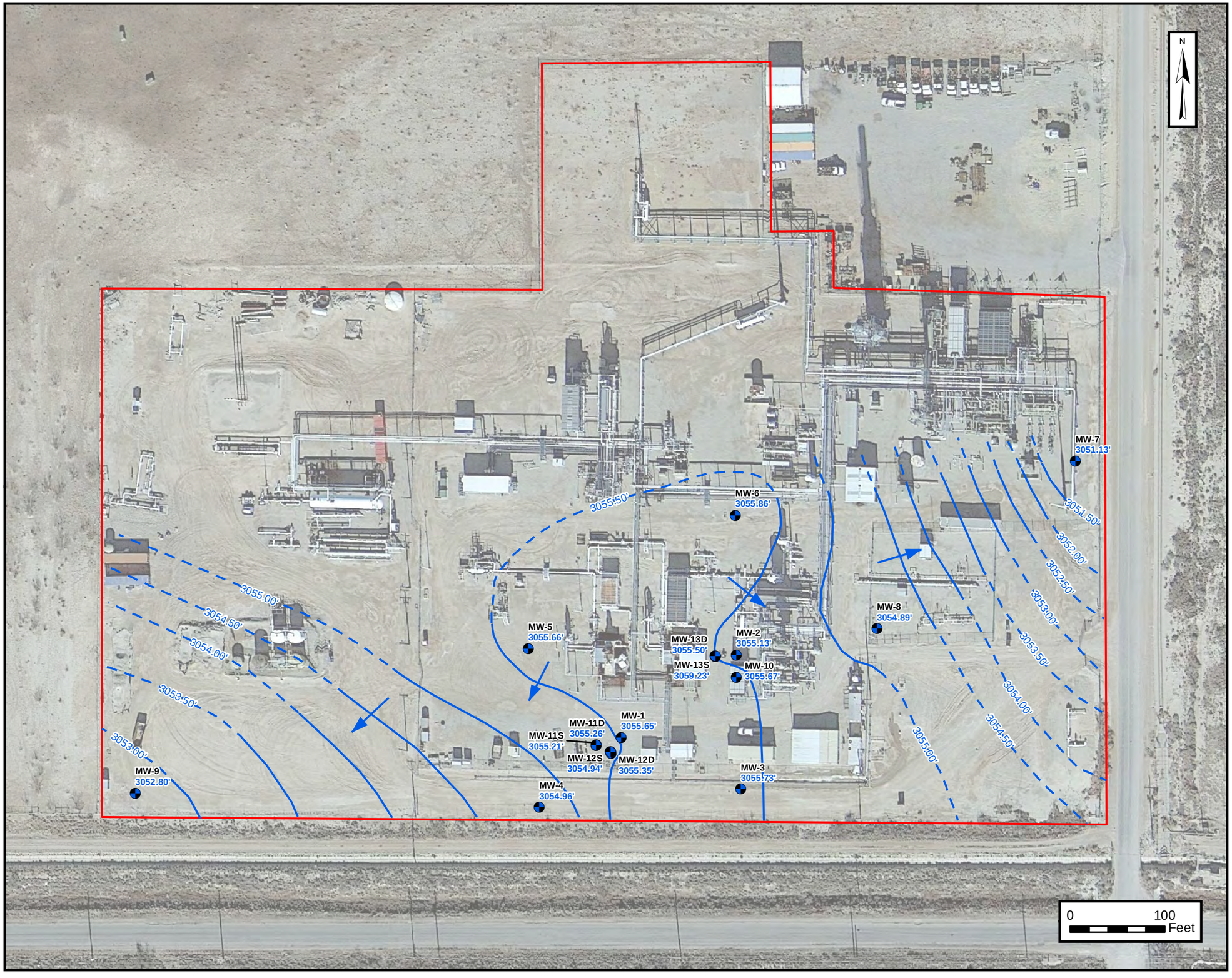
GROUNDWATER GRADIENT MAP (MAY 2021)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CP 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4A

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.50')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in **blue** and listed in feet. Data from MW-13S and MW-12S were not used to generate contour lines.

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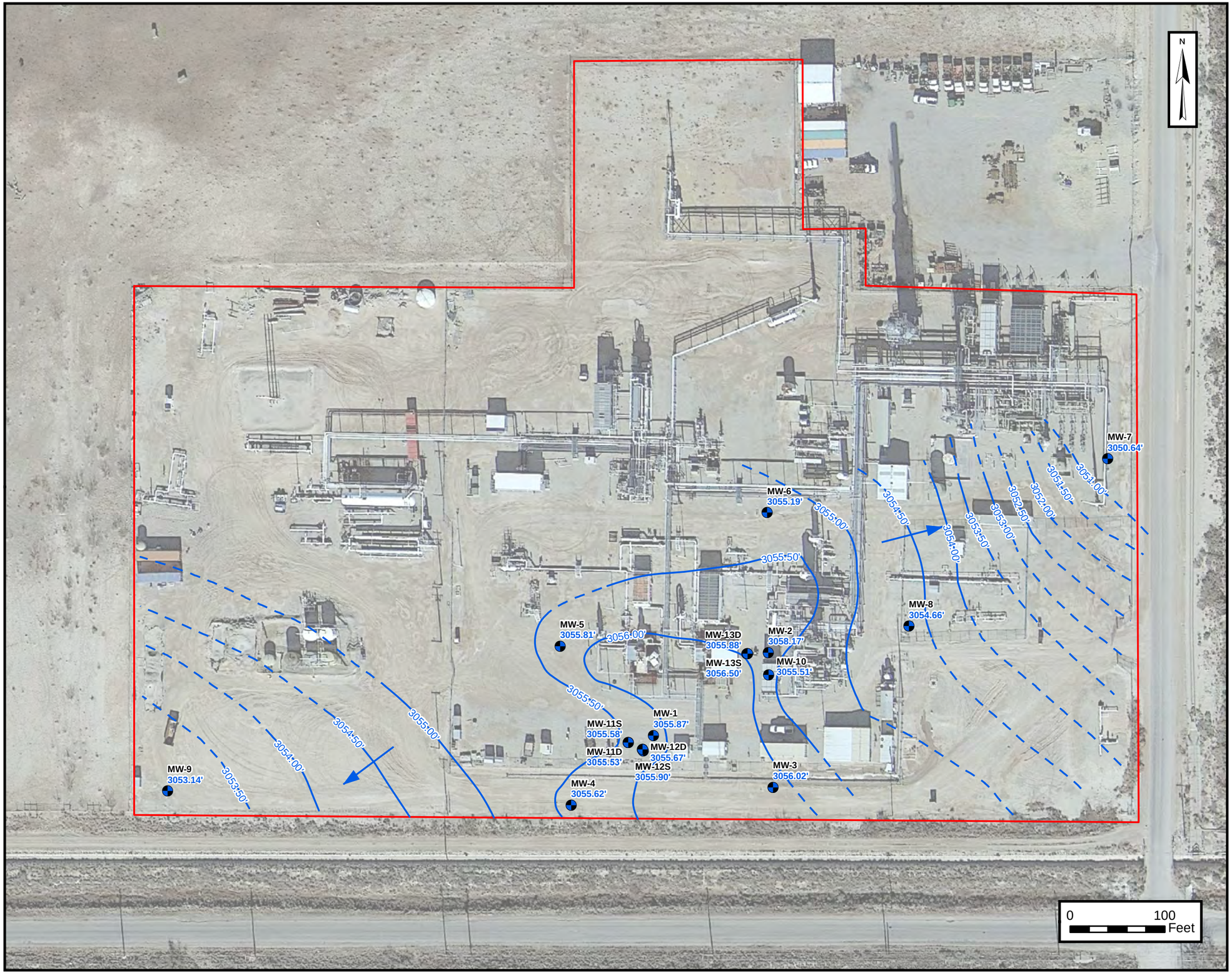
GROUNDWATER GRADIENT MAP (AUGUST 2021)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CP 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4B

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.50')
- Inferred Groundwater Elevation Contour
- Inferred Goundwater Flow

NOTE:
All groundwater elevations are shown in **blue** and listed in feet. Data from MW-2 & MW-13S were not used to generate contour lines.

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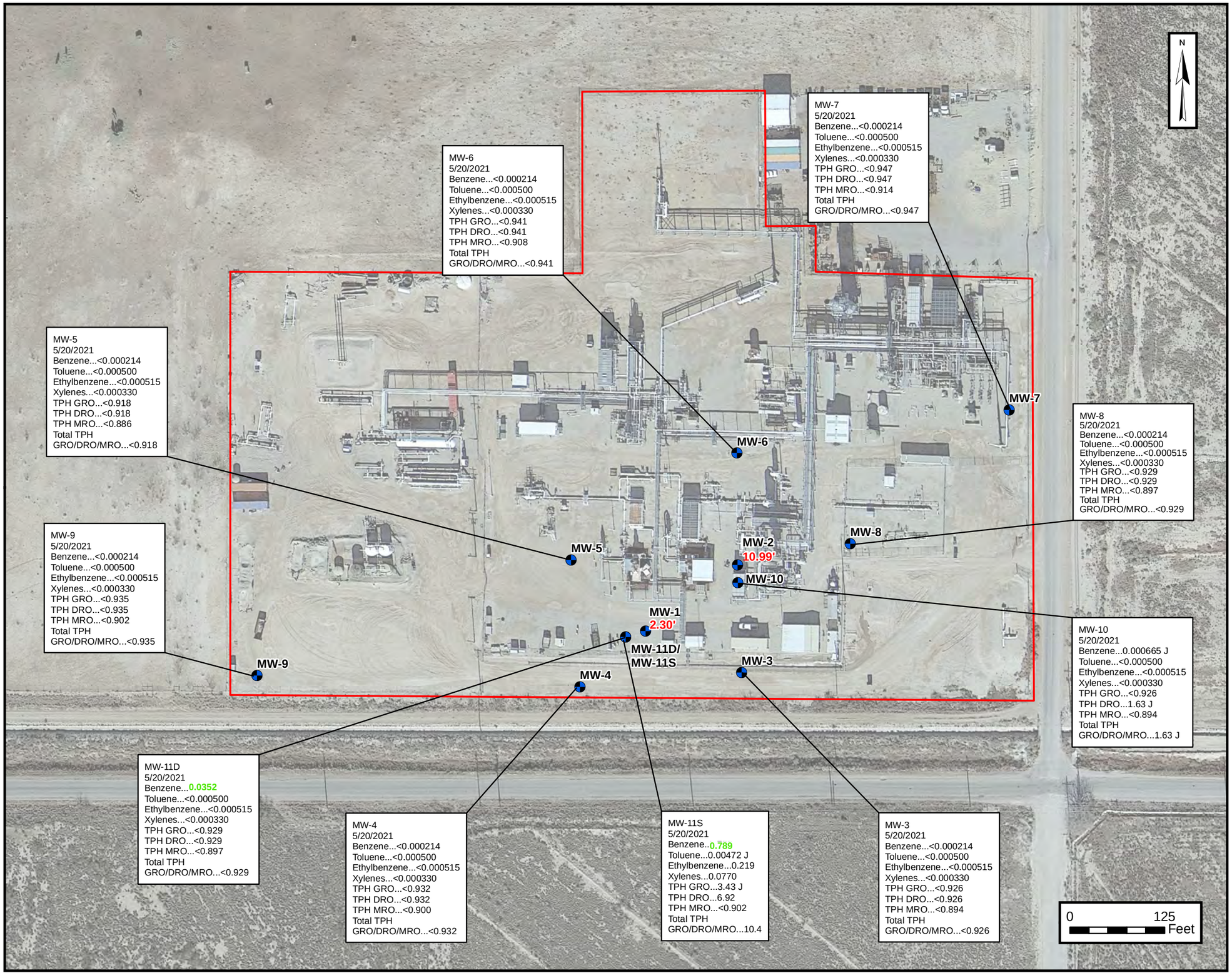
GROUNDWATER GRADIENT MAP (NOVEMBER 2021)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CP 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4C

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
PSH thickness in **Red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **Green** exceed New MexicoWater Quality Control Commission Groundwater Quality Standards.

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Environmental, Engineering and Hydrogeologic Consultants

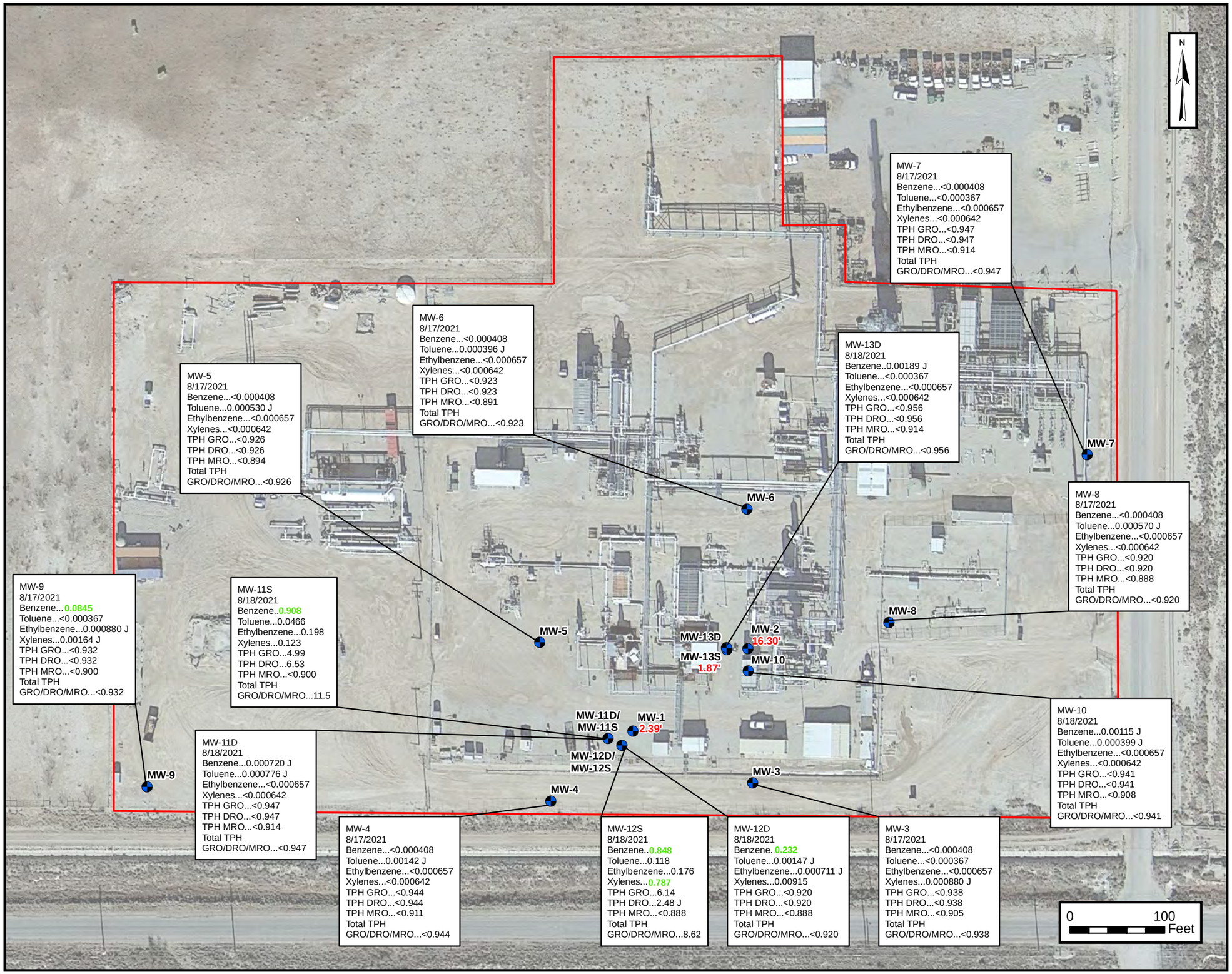
COC CONCENTRATION MAP (MAY 2021)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CP 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
5A

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
PSH thickness in **Red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **Green** exceed New MexicoWater Quality Control Commission Groundwater Quality Standards.

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Environmental, Engineering and Hydrogeologic Consultants

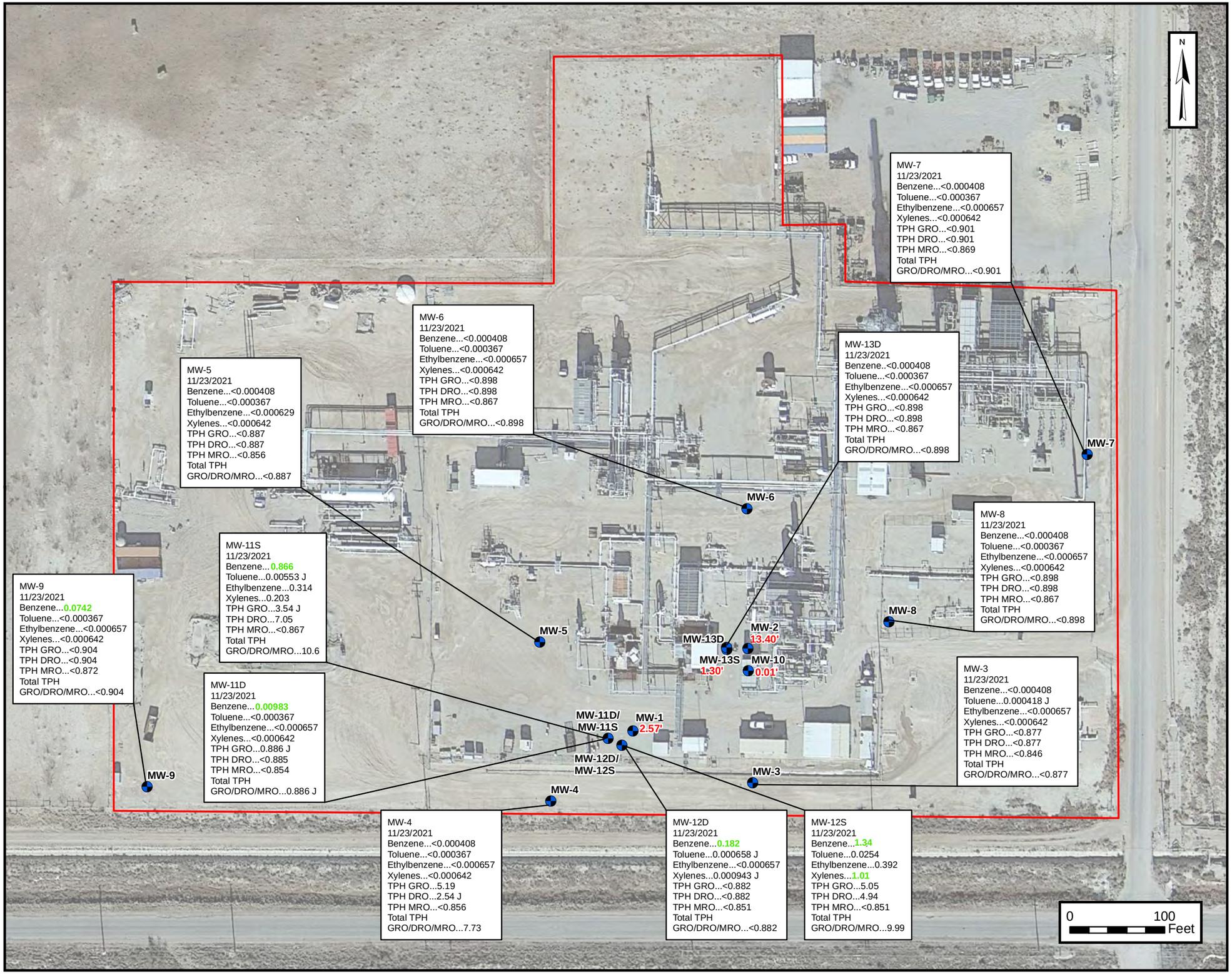
COC CONCENTRATION MAP (AUGUST 2021)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CP 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
5B

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
PSH thicknesses in **Red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **Green** exceed New MexicoWater Quality Control Commission Groundwater Quality Standards.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

COC CONCENTRATION MAP (NOVEMBER 2021)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CP 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE

5C

Ensolum Project No : 03B1226001

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APPENDIX B

Tables

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TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
SOIL BORING ANALYTICAL RESULTS												
B-1 (7-8)	11/5/2009	7 - 8	NA	**0.34**	**7.1**	**1.5**	**31**	**39.94**	**270**	**710**	NA	**980**
B-1 (19-20)	11/5/2009	19 - 20	NA	<0.0021	<0.0022	<0.0024	**0.036**	**0.0427**	**0.15**	**24**	NA	**24.15**
B-2	2/25/2011	Soil Samples Not Collected										
B-3 (6-7)	2/25/2011	6 - 7	NA	**0.0091**	**56.8**	**13.1**	**224**	**293.9**	**2,070**	**4,830**	NA	**6,900**
B-4 (3-4)	2/25/2011	3 - 4	NA	<0.00131	<0.00131	<0.00131	<0.00394	<0.00787	<0.0657	**4.17**	NA	**4.2357**
B-4 (5-6)	2/25/2011	5 - 6	NA	<0.00133	**0.00316**	<0.00133	**0.0198**	**0.02562**	**3.75**	**368**	NA	**371.75**
B-5 (4-5)	2/25/2011	4 - 5	NA	<0.00125	**7.62**	**0.00991**	**29.4**	**37.03116**	**1,540**	**2,520**	NA	**4,060**
B-6 (4-5)	2/25/2011	4 - 5	NA	<0.00122	**0.00847**	<0.00122	**0.0147**	**0.02561**	**1.12**	**25.5**	NA	**26.62**
B-6 (7-8)	2/25/2011	7 - 8	NA	<0.00128	**7.17**	**4.15**	**46.3**	**57.621**	**1,930**	**2,210**	NA	**4,140**
B-7 (2-3)	2/25/2011	2 - 3	NA	<0.00122	<0.00122	<0.00122	<0.00366	<0.04026	<0.0612	**7.98**	NA	<8.0412
B-7 (5-6)	2/25/2011	5 - 6	NA	<0.0012	**2.23**	**2.28**	**10.5**	**15.0112**	**960**	**1,480**	NA	**2,440**
B-8 (4-5)	2/25/2011	4 - 5	NA	<0.00135	**6.93**	**2.93**	**17.8**	**27.66135**	**2,100**	**1,920**	NA	**4,020**
B-8 (7-8)	2/25/2011	7 - 8	NA	<0.00119	<0.00119	<0.00119	<0.00358	<0.00715	<0.0597	**199**	NA	**199.1**
B-9 (4-5)	2/25/2011	4 - 5	NA	<0.0012	**0.00416**	<0.0012	<0.00359	**0.01015**	<0.0598	**4.5**	NA	**4.560**
B-9 (7-8)	2/25/2011	7 - 8	NA	<0.00186	<0.00186	<0.00186	<0.00558	<0.01116	<0.0929	**8.98**	NA	**9.073**
B-10 (8-9)	1/14/2014	8 - 9	NA	**0.0076 J**	**0.029 J**	<0.0033	**0.15**	**0.1899**	**33**	**59**	NA	**92**
B-10 (14-15)	1/14/2014	14 - 15	NA	<0.0030	**0.026 J**	<0.0034	**0.037 J**	**0.0694**	**6.6**	<3.9	NA	**10.5**
B-10 (24-25)	1/14/2014	24 - 25	NA	<0.0029	**0.025 J**	<0.0033	<0.011	**0.0422**	<2.8	<3.9	NA	<6.7
B-11 (10-11)	1/15/2014	10 - 11	NA	**0.14 J**	**1.3**	**1.3**	**11**	**13.74**	**380**	**1,000**	NA	**1,380**
B-11 (20-21)	1/15/2014	20 - 21	NA	**0.021 J**	**0.088**	<0.0032	**1.3**	**1.4122**	**110**	**58**	NA	**168**
B-11 (29-30)	1/15/2014	29 - 30	NA	**0.0071 J**	**0.045 J**	**0.043 J**	**0.18**	**0.2751**	**18**	**8.3**	NA	**26.3**
B-12 (13-14)	1/15/2014	13 - 14	NA	**0.49 J**	<0.060	**2.4**	**2.2**	**5.15**	**350**	**820**	NA	**1,170**
B-12 (15-16)	1/15/2014	15 - 16	NA	**0.096**	**0.052**	**0.91**	**0.96**	**2.018**	**180**	**45**	NA	**225**
B-12 (24-25)	1/15/2014	24 - 25	NA	**0.01 J**	**0.016 J**	**0.047 J**	**0.087 J**	**0.16**	**18**	**4.2**	NA	**22.2**
B-13 (14-15)	1/14/2014	14 - 15	NA	<0.0030	**0.025 J**	<0.0034	<0.011	**0.0424**	<3.0	<3.9	NA	<6.9
B-13 (24-25)	1/14/2014	24 - 25	NA	<0.0030	**0.021 J**	<0.0034	<0.011	**0.0384**	<2.9	<3.9	NA	<6.8
B-14 (14-15)	1/15/2014	14 - 15	NA	<0.0029	**0.024 J**	<0.0033	<0.011	**0.0313**	<2.9	**29**	NA	**31.9**
B-14 (24-25)	1/15/2014	24 - 25	NA	<0.0031	**0.024 J**	<0.0035	<0.011	**0.0416**	<3.0	<3.9	NA	<6.9
B-15 (3-4)	1/14/2014	3 - 4	**8.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-16 (3-4)	1/14/2014	3 - 4	**380**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-17 (3-4)	1/14/2014	3 - 4	**7.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-18 (12-13)	1/15/2014	12 - 13	NA	<0.0029	**0.025 J**	<0.0033	<0.011	**0.0323**	<2.9	<4.0	NA	<6.9
B-18 (24-25)	1/15/2014	24 - 25	NA	<0.0029	**0.023 J**	<0.0033	<0.011	**0.0402**	<2.9	<3.9	NA	<6.8
B-19 (24-26)	9/16/2015	24 - 26	NA	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<15.0	<15.0	NA	<15.0
B-19 (30-32)	9/16/2015	30 - 32	NA	<0.001000	<0.00200	<0.001000	<0.001000	<0.001000	<15.0	<15.0	NA	<15.0

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TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
MONITORING WELL ANALYTICAL RESULTS												
MW-1	12/18/2014	12 - 14	NA	**0.27**	<0.25	**3.9**	**23**	**27.42**	**950**	**1,600**	NA	**2,550**
		30 - 32	NA	**0.087**	**0.054**	**1.6**	**8.9**	**10.64**	**440**	**470**	NA	**910**
MW-2	12/17/2014	16 - 18	NA	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	**2,400**	NA	**2,405**
		26 - 28	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	**510**	NA	**514.8**
MW-3	12/17/2014	10 - 12	NA	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<9.9	NA	<9.9
		26 - 28	NA	<0.047	<0.047	<0.047	<0.093	<0.234	<4.7	<9.9	NA	<9.9
MW-4	12/17/2014	7 - 9	NA	<0.048	<0.048	<0.048	<0.097	<0.241	**160**	**550**	NA	**710**
		23 - 25	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	**13.0**	NA	**13.0**
MW-5	12/17/2014	7 - 8	NA	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	**39.0**	NA	**39.0**
		30 - 32	NA	<0.046	<0.046	<0.046	<0.093	<0.231	<4.6	**13.0**	NA	**17.6**
MW-6	9/15/2015	24 - 26	NA	<0.000996	<0.00199	<0.000996	<0.000996	<0.000996	<15.0	<15.0	NA	<15.0
		32 - 34	NA	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<14.9	<14.9	NA	<14.9
MW-7	9/16/2015	20 - 22	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
		30 - 32	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
MW-8	9/16/2015	26 - 28	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<14.9	<14.9	NA	<14.9
		34 - 35	NA	<0.001010	<0.00201	<0.001010	<0.001010	<0.001010	<15.0	<15.0	NA	<15.0
MW-9	9/17/2015	22 - 24	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
		34 - 35	NA	<0.001010	<0.00202	<0.001010	<0.001010	<0.001010	<15.0	<15.0	NA	<15.0
MW-10	9/16/2015	20 - 22	NA	<0.001010	<0.00202	<0.001010	<0.001010	<0.001010	<14.3	<14.3	NA	<14.3
		34 - 35	NA	<0.001000	<0.00200	<0.001000	<0.001000	<0.001000	<15.0	<15.0	NA	<15.0
MW-11S	11/12/2019	7 - 8	NA	**3.19**	**62.7**	**22.4**	**205**	**293**	**5,840**	**4,780**	**131**	**10,800**
		25 - 26	NA	**0.00371**	<0.00198	<0.00198	<0.00198	**0.00371**	<15.0	<15.0	<15.0	<15.0
MW-11D	11/12/2019	31	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0
MW-12S	6/14/2021	7 - 8	NA	**0.00473**	**0.00134 J**	**0.00881**	**0.0234**	**0.0383**	**39.8 J**	**554**	**439**	**1,030**
		20 - 21	NA	**0.0178**	**0.0539**	**0.155**	**0.0756**	**0.0971**	**41.1 J**	**945**	**549**	**1,540**
		21 - 22	NA	**0.0173**	**0.000475 J**	**0.00237**	**0.0324**	**0.0525**	**228**	**3,840**	**270**	**4,340**
MW-12D	6/15/2021	28 - 29	NA	**0.000425 J**	**0.00101 J**	<0.000563	**0.00141 J**	**0.00285 J**	**144**	**2,130**	**172**	**2,450**
MW-13S	6/15/2021	7 - 8	NA	<0.000385	<0.000456	**0.00119 J**	<0.00101	**0.00119 J**	**190**	**2,790**	**223**	**3,200**
		19 - 20	NA	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	**31.9 J**	<15.0	**31.9 J**
MW-13D	6/16/2021	29 - 30	NA	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0

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South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
HAND AUGER ANALYTICAL RESULTS												
HA-1	04/09/2018	8 - 8.5	NA	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	**30.1 J**	**8,280**	**4,930**	**13,200**
HA-1	04/09/2018	9.25 - 9.5	NA	<0.00248	<0.00248	<0.00248	<0.00248	<0.00248	**29.9 J**	**6,960**	**5,840**	**12,800**
HA-2	04/10/2018	4-5	NA	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<9.95	<9.95	<9.95	<9.95
HA-2	04/10/2018	5 - 5.5	NA	<0.000497	<0.000497	<0.000497	<0.000497	<0.000497	<9.95	<9.95	<9.95	<9.95
HA-3	04/10/2018	4 - 5	NA	<0.0500	<0.0500	<0.0500	**0.127**	**0.127**	**30.6 J**	**31,600**	**14,200**	**45,800**
HA-3	04/10/2018	5 - 5.25	NA	<0.0125	**0.0518**	**0.0533**	**0.218**	**0.323**	**35.1 J**	**28,600**	**13,700**	**42,300**
HA-4	04/10/2018	1 - 2	NA	<0.000501	<0.000501	<0.000501	<0.000501	<0.000501	<9.92	**24.7 J**	<9.92	**24.7 J**
HA-4	04/10/2018	6 - 6.5	NA	<0.000502	<0.000502	<0.000502	<0.000502	<0.000502	<10.0	**15.8 J**	<10.0	**15.8 J**
HA-5	04/10/2018	5 - 6	NA	<0.0125	<0.0125	<0.0125	<0.0125	<0.0125	**160**	**757**	**28.6 J**	**946**
HA-5	04/10/2018	6 - 7	NA	<0.000501	<0.000501	**0.00187**	<0.000501	**0.00187**	**252**	**648**	**24.2 J**	**924**
HA-6	04/10/2018	6 - 6.25	NA	<0.0500	<0.0500	**0.508**	**0.498**	**1.01**	**843**	**935**	**37.9 J**	**1,820**
HA-6	04/10/2018	6.25 - 6.5	NA	<0.0124	<0.0124	**0.764**	**0.989**	**1.75**	**829**	**1,240**	**45.2 J**	**2,110**
HA-7	04/10/2018	5 - 6	NA	<0.000501	<0.000501	<0.000501	<0.000501	<0.000501	<9.90	<9.90	<9.90	<9.90
HA-7	04/10/2018	7 - 8	NA	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<9.90	<9.90	<9.90	<9.90
HA-8	04/10/2018	2 - 3	NA	<0.0498	**0.0996 J**	**7.94**	**79.2**	**87.2**	**3,150**	**3,050**	**108**	**6,310**
HA-8	04/10/2018	5 - 5.5	NA	<0.0496	**0.0575 J**	**5.37**	**55.9**	**61.3**	**2,400**	**2,450**	**88.5**	**4,940**
HA-9	04/11/2018	4 - 5	NA	<0.0501	**0.0862 J**	**6.59**	**27.5**	**34.1**	**4,480**	**8,150**	**275**	**12,900**
HA-9	04/11/2018	5 - 6	NA	<0.0499	**0.0699 J**	**5.80**	**64.1**	**70.0**	**2,800**	**3,980**	**198**	**6,980**
HA-10	04/11/2018	2 - 3	NA	<0.000499	<0.000499	<0.000499	<0.000499	<0.000499	<10.0	<10.0	<10.0	<10.0
HA-10	04/11/2018	3 - 4.5	NA	<0.000499	<0.000499	<0.000499	<0.000499	<0.000499	<9.99	<9.99	<9.99	<9.99

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Enterprise Field Services LLC
Eddy County, New Mexico
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Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			**600**	**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**
EXCAVATION CONFIRMATION ANALYTICAL RESULTS												
EC-1	1/31/2011	8 - 9	NA	<0.0125	**13**	**9.23**	**103**	**<125.2425**	**903**	**6,040**	NA	**6,943**
EC-1(R)	2/24/2011	8 - 9	NA	<0.0123	**13.1**	**2.62**	**50.1**	**65.8323**	**569**	**1,250**	NA	**1,819**
EC-2	1/31/2011	8 - 9	NA	<0.00611	**0.214**	**0.24**	**16.8**	**17.26011**	**1.34**	**4,530**	NA	**4,531**
EC-2(R)	2/24/2011	8 - 9	NA	<0.0127	**7.98**	**0.836**	**25.4**	**34.2287**	**6,980**	**674**	NA	**7,654**
EC-2(R)	2/24/2011	8 - 9	NA	NA	NA	NA	NA	NA	**835**	**2,050**	NA	**2,885**
EC-3	1/31/2011	8 - 9	NA	<0.00128	**0.00713**	<0.00128	**59.4**	**59.40969**	**1,260**	**5,200**	NA	**6,460**
EC-3(R)A	2/24/2011	8 - 9	NA	<0.0126	**4.22**	**1.26**	**12.3**	**17.7926**	**515**	**640**	NA	**1,155**
EC-3(R)B	2/24/2011	8 - 9	NA	<0.00135	**0.00204**	<0.00135	<0.00406	**0.0088**	**0.545**	**14.9**	NA	**15.445**
EC-4	1/31/2011	8 - 9	NA	<0.00126	<0.00126	<0.00126	<0.00379	<0.00757	**0.722**	**44**	NA	**44.722**
EC-5	1/31/2011	8 - 9	NA	<0.0013	**0.0156**	**0.04**	**0.123**	**0.1799**	**0.836**	**692**	NA	**692.84**

Concentrations in **bold** and shaded yellow exceed the applicable OCD Remediation Action Level.

- indicates the area was over-excavated and removed.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

* Totals include reported concentration and/or assume concentrations up to the SDL.

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

mg/kg - milligrams per kilogram

bgs - below ground surface

NA - Not Analyzed

NE - Not Established

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TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-1	3/24/2011	0 - 0.5	**410**	<0.19	<0.23	<0.23	<0.69	<1.34	**140 J**	**1,600**	**1,740**
TS-1 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**81 J**	**1,800**	**1,881**
TS-1 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**570**	**586**
TS-1 (R3)	11/3/2011	0 - 0.5	**120**	NA	NA	NA	NA	NA	<9.8	**440**	**449.8**
TS-2	3/24/2011	0 - 0.5	**310**	<0.019	<0.023	<0.023	<0.069	<0.134	**8.3 J**	**770**	**778.3**
TS-2 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**560**	**576**
TS-2 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**470**	**486**
TS-3	3/24/2011	0 - 0.5	**600**	<0.19	<0.23	<0.23	**0.83 J**	**1.48**	<80	**1,700**	**1,780**
TS-3 (R)	6/20/2011	0 - 0.5	**290**	NA	NA	NA	NA	NA	<30	**1,400**	**1,430**
TS-3 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**1,200**	**1,216**
TS-3 (R3)	11/3/2011	0 - 0.5	**120**	NA	NA	NA	NA	NA	<24	**1,200**	**1,224**
TS-3 (R4)	12/6/2011	0.5 - 1	NA	NA	NA	NA	NA	NA	<4.8	**270**	**274.8**
TS-4	3/24/2011	0 - 0.5	**270**	<0.019	<0.023	<0.023	**0.14 J**	**0.205**	**17 J**	**1,300**	**1,317**
TS-4 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**820**	**835**
TS-4 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<7.5	**250**	**257.5**
TS-5	3/24/2011	0 - 0.5	**440**	<0.019	<0.023	<0.023	<0.069	<0.134	<8.0	**1,300**	**1,308**
TS-5 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**1.6 J**	**14**	**15.6**

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South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-6	3/24/2011	0 - 0.5	**190**	**<0.37**	<0.46	<0.45	**1.6 J**	**2.88**	<160	**2,000**	**2,160**
TS-6 (R)	6/20/2011	0 - 0.5	NA	<0.018	<0.022	<0.021	<0.065	<0.126	<7.6	**230**	**237.6**
TS-7	3/24/2011	0 - 0.5	**260**	<0.019	<0.023	**0.023 J**	**0.25 J**	**0.315**	**20 J**	**1,500**	**1,520**
TS-7 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**56**	**57.6**
TS-8	3/24/2011	0 - 0.5	**350**	<0.019	**0.039 J**	**0.069 J**	**0.09**	**0.217**	**47**	**1,500**	**1,547**
TS-8 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	<3.5	<5.1
TS-9	3/24/2011	0 - 0.5	**410**	<0.019	<0.023	**0.023 J**	<0.069	**0.134**	<8.0	**650**	**658**
TS-9 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<8.0	**270**	**278**
TS-10	3/24/2011	0 - 0.5	**110**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,000**	**1,080**
TS-10 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<8.4	**250**	**258.4**
TS-11	3/24/2011	0 - 0.5	**160**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,800**	**1,880**
TS-11 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**790**	**806**
TS-11 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.5	**350**	**351.5**
TS-12	3/24/2011	0 - 0.5	**160**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,400**	**1,480**
TS-12 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**440**	**455**
TS-13	3/24/2011	0 - 0.5	**100**	**<0.37**	<0.46	<0.45	<1.4	**2.68**	<160	**1,900**	**2,060**
TS-13 (R)	6/20/2011	0 - 0.5	NA	<0.018	<0.022	<0.022	<0.066	<0.128	<7.7	**290**	**297.7**
TS-14	3/24/2011	0 - 0.5	**210**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,100**	**1,180**
TS-14 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**500**	**515**
TS-15	3/24/2011	0 - 0.5	**210**	<0.19	<0.23	<0.23	<0.69	<1.34	**160 J**	**2,400**	**2,560**
TS-15 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**17 J**	**430**	**447**

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TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-16	3/24/2011	0 - 0.5	**230**	<0.19	<0.23	<0.23	<0.69	<1.34	**210 J**	**1,900**	**2,110**
TS-16 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.5	**73**	**74.5**
TS-17	3/24/2011	0 - 0.5	**320**	<0.037	<0.046	<0.045	<0.14	<0.268	<16	**1,200**	**1,216**
TS-17 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**3.3 J**	**99**	**102.3**
TS-18	3/24/2011	0 - 0.5	**280**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,800**	**2,880**
TS-18 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**63**	**64.6**
TS-19	3/24/2011	0 - 0.5	**290**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,700**	**2,780**
TS-19 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**790**	**806**
TS-19 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<7.5	**330**	**337.5**
TS-20	3/24/2011	0 - 0.5	**230**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,200**	**2,280**
TS-20 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**72**	**73.6**
VZ-1	3/3/2012	3 - 3.25	**460**	<0.0047	<0.0081	<0.0039	<0.0160	<0.0327	<1.4	<5.4	<6.8
VZ-2	3/3/2012	3 - 3.25	**1,300**	<0.0046	<0.0079	<0.0038	<0.0160	<0.0323	<1.3	<5.4	<6.7

Concentrations in **bold** and shaded yellow exceed the applicable NMAC Small Landfarm Closure Performance Standards.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

** Totals include reported concentration and/or assume concentrations up to the SDL.

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

mg/kg - milligrams per kilogram

bgs - below ground surface

NE - Not Established

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	250.0	0.005	1	0.7	0.62	NE	NE	NE	NE
MW-1	1/20/2015	NA	**2,900**	**0.094**	<0.002	<0.002	**0.370**	**2.30**	**1.20**	NA	NA
	10/27/2015	NA	**2,390**	**0.339**	<0.002	**0.074**	**0.369**	**4.95**	<1.40	NA	**4.95**
	2/4/2016	NA	**1,740**	**0.966**	<0.010	**0.198**	**0.874**	**7.46**	**1.43**	NA	**8.89**
	5/3/2016	NA	NA	**1.570**	**0.0187**	**0.343**	**1.760**	**6.99**	<1.50	NA	**6.99**
	8/9/2016	NA	NA	**0.387**	<0.00184	**0.0877**	**0.439**	**7.96**	**1.42 J**	NA	**9.38**
	11/14/2016	Not Sampled Due to Presence of PSH									
	2/23/2017	Not Sampled Due to Presence of PSH									
	5/11/2017	Not Sampled Due to Presence of PSH									
	8/22/2017	Not Sampled Due to Presence of PSH									
	11/17/2017	NA	NA	**0.772**	**0.0206**	**0.119**	**0.509**	**9.79**	**9.32**	<0.911	**19.1**
	5/31/2018	Not Sampled Due to Presence of PSH									
	9/17/2019	Not Sampled Due to Presence of PSH									
	5/19/2020	Not Sampled Due to Presence of PSH									
	11/10/2020	Not Sampled Due to Presence of PSH									
	5/20/2021	Not Sampled Due to Presence of PSH									
	8/17/2021	Not Sampled Due to Presence of PSH									
	11/23/2021	Not Sampled Due to Presence of PSH									
MW-2	1/20/2015	Not Sampled Due to Presence of PSH									
	10/27/2015	Not Sampled Due to Presence of PSH									
	2/4/2016	Not Sampled Due to Presence of PSH									
	5/2/2016	Not Sampled Due to Presence of PSH									
	8/9/2016	Not Sampled Due to Presence of PSH									
	11/14/2016	Not Sampled Due to Presence of PSH									
	2/23/2017	Not Sampled Due to Presence of PSH									
	5/11/2017	Not Sampled Due to Presence of PSH									
	8/22/2017	Not Sampled Due to Presence of PSH									
	11/16/2017	Not Sampled Due to Presence of PSH									
	5/31/2018	Not Sampled Due to Presence of PSH									
	9/17/2019	Not Sampled Due to Presence of PSH									
	5/19/2020	Not Sampled Due to Presence of PSH									
	11/10/2020	Not Sampled Due to Presence of PSH									
	5/20/2021	Not Sampled Due to Presence of PSH									
	8/17/2021	Not Sampled Due to Presence of PSH									
	11/23/2021	Not Sampled Due to Presence of PSH									
MW-3	1/20/2015	NA	**1,800**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015		**3,470**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**2,350**	**0.00476**	<0.002	**0.00385**	**0.0149**	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.002	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000637	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00151 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.874	**1.16 J**	<0.808	**1.16**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.900	<0.831	<0.831	<0.831
	11/10/2020			<0.000408	**0.00102 J**	<0.000657	<0.0006300	<0.887	<0.819	<0.819	<0.819
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.926	<0.926	<0.894	<0.926
	8/17/2021			<0.000408	<0.000367	<0.000657	**0.000880 J**	<0.938	<0.938	<0.905	<0.938
	11/23/2021			<0.000408	**0.000418 J**	<0.000657	<0.000642	<0.877	<0.877	<0.846	<0.877

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	250.0	0.005	1	0.7	0.62	NE	NE	NE	NE
MW-4	1/20/2015	**6,940**	**2,500**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015	NA	**2,040**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		**2,230**	**0.00706**	<0.002	**0.00485**	**0.0217**	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00172 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.881	**1.16 J**	<0.814	**1.16**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.924	<0.854	<0.854	<0.854
	11/10/2020			<0.000408	**0.000640 J**	<0.000657	<0.0006300	<0.892	<0.824	<0.824	<0.824
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.932	<0.932	<0.900	<0.932
	8/17/2021			<0.000408	**0.00142 J**	<0.000657	<0.000642	<0.944	<0.944	<0.911	<0.944
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	**5.19**	**2.54 J**	<0.856	**7.73**
MW-5	1/20/2015	**4,930**	**1,100**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015	NA	**2,190**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		**2,230**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/23/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.987	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00184 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	**0.00086**	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.874	**0.829 J**	<0.807	**0.829**
	5/19/2020			<0.000408	**0.000470 J**	<0.000657	<0.000630	<0.911	<0.842	<0.842	<0.842
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.884	<0.817	<0.817	<0.817
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.918	<0.918	<0.886	<0.918
	8/17/2021			<0.000408	**0.000530 J**	<0.000657	<0.000642	<0.926	<0.926	<0.894	<0.926
	11/23/2021			<0.000408	<0.000367	<0.000629	<0.000642	<0.887	<0.887	<0.856	<0.887
MW-6	10/27/2015	NA	**335**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**339**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/23/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00167 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.865	**1.10 J**	<0.799	**1.10**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.911	<0.842	<0.842	<0.842
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.888	<0.820	<0.820	<0.820
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.941	<0.941	<0.908	<0.941
	8/17/2021			<0.000408	**0.000396 J**	<0.000657	<0.000642	<0.923	<0.923	<0.891	<0.923
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	250.0	0.005	1	0.7	0.62	NE	NE	NE	NE
MW-7	10/27/2015	NA	**1,470**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**1,400**	<0.001	<0.002	<0.002	<0.0010	<1.40	<1.40	NA	<1.40
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00342**	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	5/30/2018			<0.000408	**0.000570**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.877	**1.03 J**	<0.810	**1.03**
	5/19/2020			**0.000470 J**	<0.000367	<0.000657	**0.000650 J**	<0.925	<0.855	<0.855	<0.855
	11/11/2020			<0.000408	**0.000410 J**	<0.000657	<0.0006300	<0.884	<0.817	<0.817	<0.817
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.947	<0.947	<0.914	<0.947
	8/17/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.947	<0.947	<0.914	<0.947
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
MW-8	10/27/2015	NA	**2,240**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**690**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00156 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	**0.000840**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.877	<0.810	<0.810	<0.810
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.909	<0.840	<0.840	<0.840
	11/10/2020			<0.000408	**0.000410 J**	<0.000657	<0.0006300	<0.902	<0.833	<0.833	<0.833
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.929	<0.929	<0.897	<0.929
	8/17/2021			<0.000408	**0.000570 J**	<0.000657	<0.000642	<0.920	<0.920	<0.888	<0.920
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
MW-9	10/27/2015	NA	**1,600**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		**1,320**	<0.001	<0.001	<0.0010	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00134 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/30/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.886	**1.26 J**	<0.819	**1.26**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.922	<0.852	<0.852	<0.852
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.916	<0.846	<0.846	<0.846
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.935	<0.935	<0.902	<0.935
	8/17/2021			**0.0845**	<0.000367	**0.000880 J**	**0.00164 J**	<0.932	<0.932	<0.900	<0.932
	11/23/2021			**0.0742**	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904

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TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-10	10/28/2015	NA	**474**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**762**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/3/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/9/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/15/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00135 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			0.00077	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.866	**1.17 J**	<0.800	**1.17**
	5/19/2020			**0.000500 J**	<0.000367	<0.000657	<0.000630	<0.915	<0.845	<0.845	<0.845
	11/11/2020			**0.00132 J**	<0.000367	<0.000657	<0.0006300	**0.960 J**	<0.825	<0.825	**0.960**
	5/20/2021			**0.000665 J**	<0.000500	<0.000515	<0.000330	<0.926	**1.63 J**	<0.894	**1.63 J**
	8/18/2021			**0.00115 J**	**0.000399 J**	<0.000657	<0.000642	<0.941	<0.941	<0.908	<0.941
	11/23/2021			Not Sampled Due to Presence of PSH							
MW-11S	12/9/2019	NA	NA	**0.637**	**0.393**	**0.0959**	**0.520**	**5.88**	**5.18**	<2.30	**11.1**
	5/19/2020			**0.748**	**0.0745 J**	**0.142**	**0.139**	**5.37**	**6.28**	<0.847	**11.7**
	11/11/2020			**1.26**	**0.00207**	**0.258**	**0.09568**	**3.81**	**2.10 J**	<0.837	**5.91**
	5/20/2021			**0.789**	**0.00472 J**	**0.219**	**0.0770**	**3.43 J**	**6.92**	<0.902	**10.4**
	8/18/2021			**0.908**	**0.0466**	**0.198**	**0.123**	**4.99**	**6.53**	<0.900	**11.5**
	11/23/2021			**0.866**	**0.00553 J**	**0.314**	**0.203**	**3.54 J**	**7.05**	<0.867	**10.6**
MW-11D	12/9/2019	NA	NA	**0.0155**	<0.00200	<0.00200	**0.00780**	<2.29	<2.29	<2.29	<2.29
	5/19/2020			**0.00197 J**	**0.000660 J**	<0.000657	**0.00113 J**	<0.902	<0.833	<0.833	<0.833
	11/11/2020			**0.0544**	**0.000760 J**	<0.000657	**0.001410 J**	<0.895	<0.827	<0.827	<0.827
	5/20/2021			**0.0352**	<0.000500	<0.000515	<0.000330	<0.929	<0.929	<0.897	<0.929
	8/18/2021			**0.000720 J**	**0.000776 J**	<0.000657	<0.000642	<0.947	<0.947	<0.914	<0.947
	11/23/2021			**0.00983**	<0.000367	<0.000657	<0.000642	**0.886 J**	<0.885	<0.854	**0.886 J**
MW-12S	6/29/2021	NA	NA	**0.527**	**0.115**	**0.125**	**0.625**	**4.00 J**	**2.12 J**	<0.849	**6.12**
	8/18/2021			**0.848**	**0.118**	**0.176**	**0.787**	**6.14**	**2.48 J**	<0.888	**8.62**
	11/23/2021			**1.34**	**0.0254**	**0.392**	**1.01**	**5.05**	**4.94**	<0.851	**9.99**
MW-12D	6/29/2021	NA	NA	**0.252**	**0.00267**	<0.000657	**0.0135**	<0.906	**1.11 J**	<0.875	**1.11**
	8/18/2021			**0.232**	**0.00147 J**	**0.000711 J**	**0.00915**	<0.920	<0.920	<0.888	<0.920
	11/23/2021			**0.182**	**0.000658 J**	<0.000657	**0.000943 J**	<0.882	<0.882	<0.851	<0.882
MW-13S	6/29/2021	Not Sampled Due to Presence of PSH									
	8/18/2021	Not Sampled Due to Presence of PSH									
	11/23/2021	Not Sampled Due to Presence of PSH									
MW-13D	6/29/2021	NA	NA	**0.00446**	**0.00142 J**	**0.00123 J**	**0.00660**	<0.869	<0.869	<0.839	<0.869
	8/18/2021			**0.00189 J**	<0.000367	<0.000657	<0.000642	<0.956	<0.956	<0.923	<0.956
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898

Concentrations in **bold** and shaded yellow exceed the applicable New Mexico Water Quality Control Comission Groundwater Quality Standards

Chlorides removed as a COC starting in May 2016

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

mg/L - milligrams per liter

NA - Not Analyzed

NE - Not Established

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TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-1	12/19/2014	3,065.725	11 - 36	--	8.77	--	3,056.96
	1/20/2015			--	9.02	--	3,056.71
	10/27/2015			--	7.50	--	3,058.23
	11/19/2015			--	7.68	--	3,058.05
	2/4/2016			--	7.66	--	3,058.07
	5/2/2016			--	8.73	--	3,057.00
	8/9/2016			--	9.17	--	3,056.56
	11/14/2016			7.69	8.15	0.46	3,057.97
	2/23/2017			--	8.50	--	3,057.23
	5/11/2017			9.35	11.75	2.40	3,056.02
	8/22/2017			8.83	9.90	1.07	3,056.73
	11/16/2017			8.25	8.34	0.09	3,057.46
	5/30/2018			9.80	11.24	1.44	3,055.71
	2/14/2019			8.17	8.91	0.74	3,057.44
	9/16/2019			8.34	9.04	0.70	3,057.28
	5/18/2020			8.19	9.95	1.76	3,057.27
	11/10/2020			9.70	12.49	2.79	3,055.61
	5/20/2021			11.13	13.43	2.30	3,054.25
	8/17/2021			9.72	12.11	2.39	3,055.65
	11/23/2021			9.47	12.04	2.57	3,055.87
MW-2	12/19/2014	3,064.625	9 - 34	7.05	13.36	6.31	3,056.63
	1/20/2015			6.75	17.80	11.05	3,056.22
	10/27/2015			3.49	17.39	13.90	3,059.05
	11/19/2015			4.11	19.38	15.27	3,058.22
	2/4/2016			4.49	18.53	14.04	3,058.03
	5/2/2016			5.99	17.57	11.58	3,056.90
	7/27/2016			8.40	8.62	0.22	3,056.19
	8/9/2016			8.30	8.46	0.16	3,056.30
	8/24/2016			7.19	7.54	0.35	3,057.38
	9/15/2016			5.42	7.67	2.25	3,058.87
	9/29/2016			5.84	8.60	2.76	3,058.37
	11/14/2016			6.23	8.45	2.22	3,058.06
	2/23/2017			6.81	12.50	5.69	3,056.96
	5/11/2017			8.72	8.78	0.06	3,055.90
	8/22/2017			7.80	8.16	0.36	3,056.77
	11/16/2017			7.25	7.65	0.40	3,057.32
	5/30/2018			9.09	9.87	0.78	3,055.42
	2/14/2019			7.64	9.72	2.08	3,056.67
	9/16/2019			6.50	17.50	11.00	3,056.48
	5/18/2020			7.16	15.00	7.84	3,056.29
	11/10/2020			8.49	18.84	10.35	3,054.58
	5/20/2021			9.27	20.26	10.99	3,053.71
	8/17/2021			7.05	23.35	16.30	3,055.13
	11/23/2021			4.45	17.85	13.40	3,058.17
MW-3	12/19/2014	3,065.405	15 - 35	--	8.94	--	3,056.47
	1/20/2015			--	8.76	--	3,056.65
	10/27/2015			--	6.38	--	3,059.03
	11/19/2015			--	7.48	--	3,057.93
	2/4/2016			--	7.74	--	3,057.67
	5/2/2016			--	8.50	--	3,056.91
	8/9/2016			--	8.96	--	3,056.45
	11/14/2016			--	7.22	--	3,058.19
	2/23/2017			--	8.49	--	3,056.92
	5/11/2017			--	9.70	--	3,055.71
	8/22/2017			--	8.75	--	3,056.66
	11/16/2017			--	7.38	--	3,058.03
	5/30/2018			--	9.72	--	3,055.69
	2/14/2019			--	8.53	--	3,056.88
	9/16/2019			--	8.00	--	3,057.41
	5/18/2020			--	7.96	--	3,057.45
	11/10/2020			--	9.87	--	3,055.54
	5/20/2021			--	11.27	--	3,054.14
	8/17/2021			--	9.68	--	3,055.73
	11/23/2021			--	9.39	--	3,056.02

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-4	12/19/2014	3,065.975	15 - 35	--	8.95	--	3,057.03
	1/20/2015			--	8.81	--	3,057.17
	10/27/2015			--	7.51	--	3,058.47
	11/19/2015			--	8.31	--	3,057.67
	2/4/2016			--	8.29	--	3,057.69
	5/2/2016			--	9.10	--	3,056.88
	8/9/2016			--	9.53	--	3,056.45
	11/14/2016			--	7.92	--	3,058.06
	2/23/2017			--	5.97	--	3,060.01
	5/11/2017			--	10.37	--	3,055.61
	8/22/2017			--	9.74	--	3,056.24
	11/16/2017			--	8.55	--	3,057.43
	5/30/2018			--	10.47	--	3,055.51
	2/14/2019			--	8.96	--	3,057.02
	9/16/2019			--	8.62	--	3,057.36
	5/18/2020			--	8.73	--	3,057.25
	11/10/2020			--	10.43	--	3,055.55
	5/20/2021			--	12.06	--	3,053.92
	8/17/2021			--	11.02	--	3,054.96
	11/23/2021			--	10.36	--	3,055.62
MW-5	12/19/2014	3,065.445	11 - 36	--	8.20	--	3,057.25
	1/20/2015			--	8.50	--	3,056.95
	10/27/2015			--	6.46	--	3,058.99
	11/19/2015			--	6.84	--	3,058.61
	2/4/2016			--	6.75	--	3,058.70
	5/2/2016			--	7.80	--	3,057.65
	8/9/2016			--	7.33	--	3,058.12
	11/14/2016			--	7.07	--	3,058.38
	2/23/2017			--	7.71	--	3,057.74
	5/11/2017			--	8.86	--	3,056.59
	8/22/2017			--	8.54	--	3,056.91
	11/16/2017			--	7.76	--	3,057.69
	5/30/2018			--	9.54	--	3,055.91
	2/14/2019			--	7.99	--	3,057.46
	9/16/2019			--	8.32	--	3,057.13
	5/18/2020			--	8.44	--	3,057.01
	11/10/2020			--	10.02	--	3,055.43
	5/20/2021			--	11.10	--	3,054.35
	8/17/2021			--	9.79	--	3,055.66
	11/23/2021			--	9.64	--	3,055.81
MW-6	10/27/2015	3,063.680	5 - 35	--	3.58	--	3,060.10
	11/19/2015			--	4.98	--	3,058.70
	2/4/2016			--	5.18	--	3,058.50
	5/2/2016			--	6.49	--	3,057.19
	8/9/2016			--	7.33	--	3,056.35
	11/14/2016			--	5.46	--	3,058.22
	2/23/2017			--	6.41	--	3,057.27
	5/11/2017			--	7.54	--	3,056.14
	8/22/2017			--	6.88	--	3,056.80
	11/16/2017			--	5.39	--	3,058.29
	5/30/2018			--	8.31	--	3,055.37
	2/14/2019			--	6.74	--	3,056.94
	9/16/2019			--	7.40	--	3,056.28
	5/18/2020			--	7.68	--	3,056.00
	11/10/2020			--	9.28	--	3,054.40
	5/20/2021			--	9.75	--	3,053.93
	8/17/2021			--	7.82	--	3,055.86
	11/23/2021			--	8.49	--	3,055.19

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-7	10/27/2015	3,061.710	5 - 35	--	7.00	--	3,054.71
	11/19/2015			--	7.61	--	3,054.10
	2/4/2016			--	7.34	--	3,054.37
	5/2/2016			--	8.61	--	3,053.10
	8/9/2016			--	9.44	--	3,052.27
	11/14/2016			--	8.12	--	3,053.59
	2/23/2017			--	8.77	--	3,052.94
	5/11/2017			--	9.75	--	3,051.96
	8/22/2017			--	9.67	--	3,052.04
	11/16/2017			--	8.62	--	3,053.09
	5/30/2018			--	10.80	--	3,050.91
	2/14/2019			--	9.29	--	3,052.42
	9/16/2019			--	9.91	--	3,051.80
	5/18/2020			--	10.10	--	3,051.61
	11/10/2020			--	10.70	--	3,051.01
	5/20/2021			--	11.34	--	3,050.37
	8/17/2021			--	10.58	--	3,051.13
	11/23/2021			--	11.07	--	3,050.64
MW-8	10/27/2015	3,063.650	5 - 35	--	4.76	--	3,058.89
	11/19/2015			--	5.87	--	3,057.78
	2/4/2016			--	6.14	--	3,057.51
	5/2/2016			--	7.41	--	3,056.24
	8/9/2016			--	8.14	--	3,055.51
	11/14/2016			--	6.25	--	3,057.40
	2/23/2017			--	7.20	--	3,056.45
	5/11/2017			--	8.32	--	3,055.33
	8/22/2017			--	7.83	--	3,055.82
	11/16/2017			--	6.26	--	3,057.39
	5/30/2018			--	8.96	--	3,054.69
	2/14/2019			--	7.44	--	3,056.21
	9/16/2019			--	7.80	--	3,055.85
	5/18/2020			--	7.89	--	3,055.76
	11/10/2020			--	8.39	--	3,055.26
	5/20/2021			--	10.29	--	3,053.36
	8/17/2021			--	8.76	--	3,054.89
	11/23/2021			--	8.99	--	3,054.66
MW-9	10/27/2015	3,067.020	5 - 35	--	11.26	--	3,055.76
	11/19/2015			--	11.60	--	3,055.42
	2/4/2016			--	11.00	--	3,056.02
	5/2/2016			--	12.18	--	3,054.84
	8/9/2016			--	12.92	--	3,054.10
	11/14/2016			--	11.04	--	3,055.98
	2/23/2017			--	11.84	--	3,055.18
	5/11/2017			--	12.97	--	3,054.05
	8/22/2017			--	12.99	--	3,054.03
	11/16/2017			--	11.94	--	3,055.08
	5/30/2018			--	13.20	--	3,053.82
	2/14/2019			--	11.56	--	3,055.46
	9/16/2019			--	11.59	--	3,055.43
	5/18/2020			--	11.63	--	3,055.39
	11/10/2020			--	13.10	--	3,053.92
	5/20/2021			--	14.74	--	3,052.28
	8/17/2021			--	14.22	--	3,052.80
	11/23/2021			--	13.88	--	3,053.14

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-10	10/27/2015	3,064.210	5 - 35	--	4.99	--	3,059.22
	11/19/2015			--	6.26	--	3,057.95
	2/4/2016			--	6.46	--	3,057.75
	5/2/2016			--	7.41	--	3,056.80
	8/9/2016			--	7.97	--	3,056.24
	11/14/2016			--	6.18	--	3,058.03
	2/23/2017			--	7.30	--	3,056.91
	5/11/2017			--	8.49	--	3,055.72
	8/22/2017			--	7.75	--	3,056.46
	11/16/2017			--	6.24	--	3,057.97
	5/30/2018			--	8.83	--	3,055.38
	2/14/2019			--	7.46	--	3,056.75
	9/16/2019			--	7.40	--	3,056.81
	5/18/2020			--	7.48	--	3,056.73
	11/10/2020			--	9.21	--	3,055.00
	5/20/2021			--	10.28	--	3,053.93
	8/17/2021			--	8.54	--	3,055.67
	11/23/2021			8.69	8.70	0.01	3,055.51
MW-11S	12/9/2019	3,065.920	2.5 - 22	--	8.78	--	3,057.14
	5/18/2020			--	8.88	--	3,057.04
	11/10/2020			--	10.24	--	3,055.68
	5/20/2021			--	11.91	--	3,054.01
	8/17/2021			--	10.71	--	3,055.21
	11/23/2021			--	10.34	--	3,055.58
MW-11D	12/9/2019	3,065.870	30 - 40	--	8.78	--	3,057.09
	5/18/2020			--	8.92	--	3,056.95
	11/10/2020			--	10.60	--	3,055.27
	5/20/2021			--	11.96	--	3,053.91
	8/17/2021			--	10.61	--	3,055.26
	11/23/2021			--	10.34	--	3,055.53
MW-12S	6/29/2021	3,065.65	5 - 20	--	10.96	--	3,054.69
	8/17/2021			--	10.71	--	3,054.94
	11/23/2021			--	9.75	--	3,055.90
MW-12D	6/29/2021	3,065.65	30 - 40	--	11.61	--	3,054.04
	8/17/2021			--	10.30	--	3,055.35
	11/23/2021			--	9.98	--	3,055.67
MW-13S	6/29/2021	3,064.42	2 - 17	8.18	8.33	0.15	3,056.22
	8/17/2021			4.91	6.78	1.87	3,059.23
	11/23/2021			7.73	9.03	1.30	3,056.50
MW-13D	6/29/2021	3,064.45	30 - 40	--	10.24	--	3,054.21
	8/17/2021			--	8.95	--	3,055.50
	11/23/2021			--	8.57	--	3,055.88

AMSL - above mean sea level

-- No PSH present during gauging event

NS - Not Surveyed

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TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-1	9/16/2019	Not sampled due to presence of PSH				
	5/19/2020	Not sampled due to presence of PSH				
	11/10/2020	Not sampled due to presence of PSH				
	5/20/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
MW-2	9/16/2019	Not sampled due to presence of PSH				
	5/19/2020	Not sampled due to presence of PSH				
	11/10/2020	Not sampled due to presence of PSH				
	5/20/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
MW-3	9/16/2019	28.7	6.63	0.35	101.0	7.64
	5/19/2020	22.0	6.77	2.11	168.1	9.54
	11/10/2020	19.8	6.58	1.15	97.8	8.14
	5/20/2021	21.2	6.36	2.42	141.9	7.43
	8/17/2021	30.8	6.97	0.95	131.5	8.93
	11/23/2021	18.7	6.89	1.04	88.1	7.44
MW-4	9/16/2019	27.7	6.29	0.34	115.8	8.45
	5/19/2020	21.4	6.28	1.21	194.2	9.35
	11/10/2020	19.4	6.16	2.01	116.5	8.14
	5/20/2021	21.1	6.32	1.89	173.8	7.18
	8/17/2021	25.3	6.69	0.12	132.5	9.06
	11/23/2021	18.6	6.57	0.04	106.0	7.78
MW-5	9/17/2019	28.6	6.51	0.30	117.8	5.56
	5/19/2020	28.2	6.47	0.44	171.7	6.11
	11/11/2020	17.6	6.41	1.45	58.2	5.76
	5/20/2021	21.6	6.37	1.40	143.5	4.94
	8/17/2021	24.3	6.72	0.13	135.0	5.90
	11/23/2021	19.2	6.67	0.02	105.6	4.96
MW-6	9/17/2019	29.8	6.84	0.62	117.2	4.35
	5/19/2020	26.9	6.81	0.54	152.8	4.76
	11/11/2020	19.3	6.91	4.78	85.6	4.26
	5/20/2021	21.6	6.56	2.20	161.9	3.30
	8/17/2021	24.2	7.06	0.30	123.6	4.49
	11/23/2021	19.9	6.98	0.44	81.6	3.94
MW-7	9/17/2019	25.5	6.57	0.36	106.0	6.45
	5/19/2020	23.5	6.59	5.13	168.9	7.35
	11/11/2020	14.9	6.62	0.73	73.4	6.88
	5/20/2021	23.1	6.48	1.55	140.2	6.16
	8/17/2021	24.2	6.84	0.23	139.4	7.21
	11/23/2021	16.7	6.79	0.72	101.2	5.84
MW-8	9/17/2019	24.4	6.56	0.63	141.5	6.70
	5/19/2020	24.6	6.52	0.50	179.6	7.86
	11/11/2020	22.0	6.43	0.55	85.8	6.91
	5/20/2021	22.6	6.46	1.45	139.7	6.15
	8/17/2021	24.3	6.78	0.14	133.2	7.81
	11/23/2021	19.3	6.71	0.28	93.0	6.85

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TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-9	9/16/2019	31.0	6.76	0.52	39.9	7.25
	5/19/2020	28.1	6.79	0.97	173.2	7.68
	11/11/2020	20.0	6.61	0.31	33.5	6.77
	5/20/2021	20.0	6.39	2.18	251.7	5.70
	8/17/2021	22.8	7.06	0.44	97.3	7.37
	11/23/2021	19.6	6.94	0.03	109.6	6.47
MW-10	5/19/2020	27.7	5.96	0.45	11.8	5.53
	11/11/2020	19.9	5.87	0.39	46.9	4.66
	5/20/2021	23.2	6.34	1.69	154.3	3.99
	8/18/2021	21.4	6.28	0.21	102.4	5.15
	11/23/2021	Not sampled due to presence of PSH				
MW-11S	12/9/2019	19.23	7.12	0.09	-339.2	5.41
	5/19/2020	25.7	6.51	0.24	-260.8	6.03
	11/11/2020	22.9	6.49	0.13	-264.9	5.11
	5/20/2021	24.8	6.44	0.80	-331.4	4.76
	8/18/2021	22.7	6.77	0.12	-345.6	5.65
	11/23/2021	21.8	6.72	0.03	-324.8	4.84
MW-11D	12/9/2019	18.73	6.65	0.29	-189.0	6.69
	5/19/2020	27.4	6.33	0.69	-82.9	7.90
	11/11/2020	22.5	6.09	3.16	49.0	7.38
	5/20/2021	24.5	6.35	1.17	163.8	6.75
	8/18/2021	22.0	6.58	0.20	134.5	7.90
	11/23/2021	20.9	6.50	0.03	119.4	6.99
MW-12S	6/29/2021	23.6	6.40	0.05	-264.5	8.89
	8/18/2021	24.3	6.42	0.06	-302.8	8.89
	11/23/2021	22.1	6.30	0.02	-272.0	7.11
MW-12D	6/29/2021	26.4	6.27	1.67	96.4	9.19
	8/18/2021	24.5	6.33	0.26	-206.7	9.30
	11/23/2021	21.2	6.29	0.04	-236.4	8.17
MW-13S	6/29/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
MW-13D	6/29/2021	24.3	6.70	0.33	-6.0	5.29
	8/18/2021	22.1	6.85	0.22	119.2	5.28
	11/23/2021	21.8	6.84	0.02	-222.4	4.84

°C - degrees celsius
mg/L - milligrams per liter
mV - millivolts
mS/cm - millisiemens per centimeter

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APPENDIX C

Soil Boring Logs / OSE Documentation

Client: Enterprise Products Operating, LLC
Project Name: South Carlsbad Compressor Station
Project Location: Carlsbad, Eddy County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMAITON

Date Started: 06/14/2021
Date Completed: 06/15/2021
Drilling Company: Cascade Drilling
Driller: Joey Lester

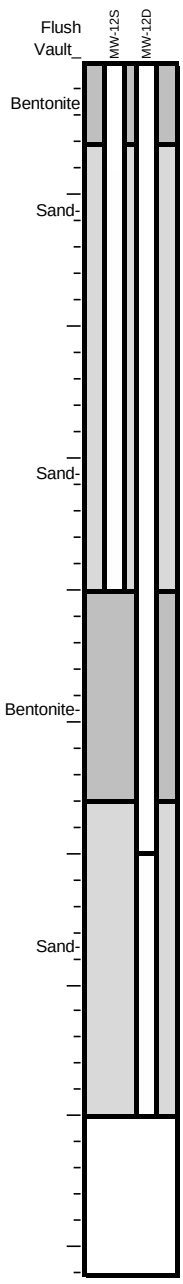
Soil Boring / Well Number: MW-12S/D
Project #: 03B1226001
Drawn By: Beaux Jennings
Approved By: Liz Scaggs

Geologist: Beaux Jennings
Sampler: Beaux Jennings
Boring Method: Sonic Drilling Rig
Well Materials: PVC
Sampler Type: Continuous Core Barrel
Logged By: Beaux Jennings
Bore Hole Diameter: 6.1"/10.5"
Casing Diameter: 2"
Well Materials: PVC
Surface Completion: Flush Vault

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH
▽ AT COMPLETION
▽ AT WELL STABILIZATION



Soil Classification	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)	Boring and Sampling Notes
0'-6' - Hydrovac clearance							-	
							-	
							-	
							-	
							-	
6' - Silty sandy clay, gray, slightly moist, very strong hydrocarbon odor		5					-	
							4,008	
			MW-12S	X			4,527	Sample collected from 7' - 8'
							217.6	
							390.5	
		10					1,631	
							1,726	
							1,660	
							1,386	
							78.0	
15' - Silty clay, gray to pinkish gray, slightly moist, strong hydrocarbon odor		15					448.7	
							1,075	
							419.3	
							617.1	
							134.6	
21' - Very dense		20	MW-12S	X			279.1	Sample collected from 20' - 21'
23' - Clayey silty sand, light brown, slightly moist, no odor			MW-12S	X			35.1	Sample collected from 21' - 22'
							14.9	
							13.8	
26' - Sandy silty clay, light brown, slightly moist, no odor		25					14.5	
							14.1	
							7.7	
							3.1	
			MW-12D	X			1.0	Sample collected from 28' - 29'
31'- Very moist		30					1.1	
							11.3	
						▽	4.7	
							2.9	
							4.8	
		35					6.9	
							4.8	
							2.4	
							2.0	
							1.1	
							1.1	
40' - Total depth		40						
		45						

ENSOLUM

Client: Enterprise Products Operating, LLC
Project Name: South Carlsbad Compressor Station
Project Location: Carlsbad, Eddy County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMAITON

Date Started: 06/15/2021
Date Completed: 06/16/2021
Drilling Company: Cascade Drilling
Driller: Joey Lester

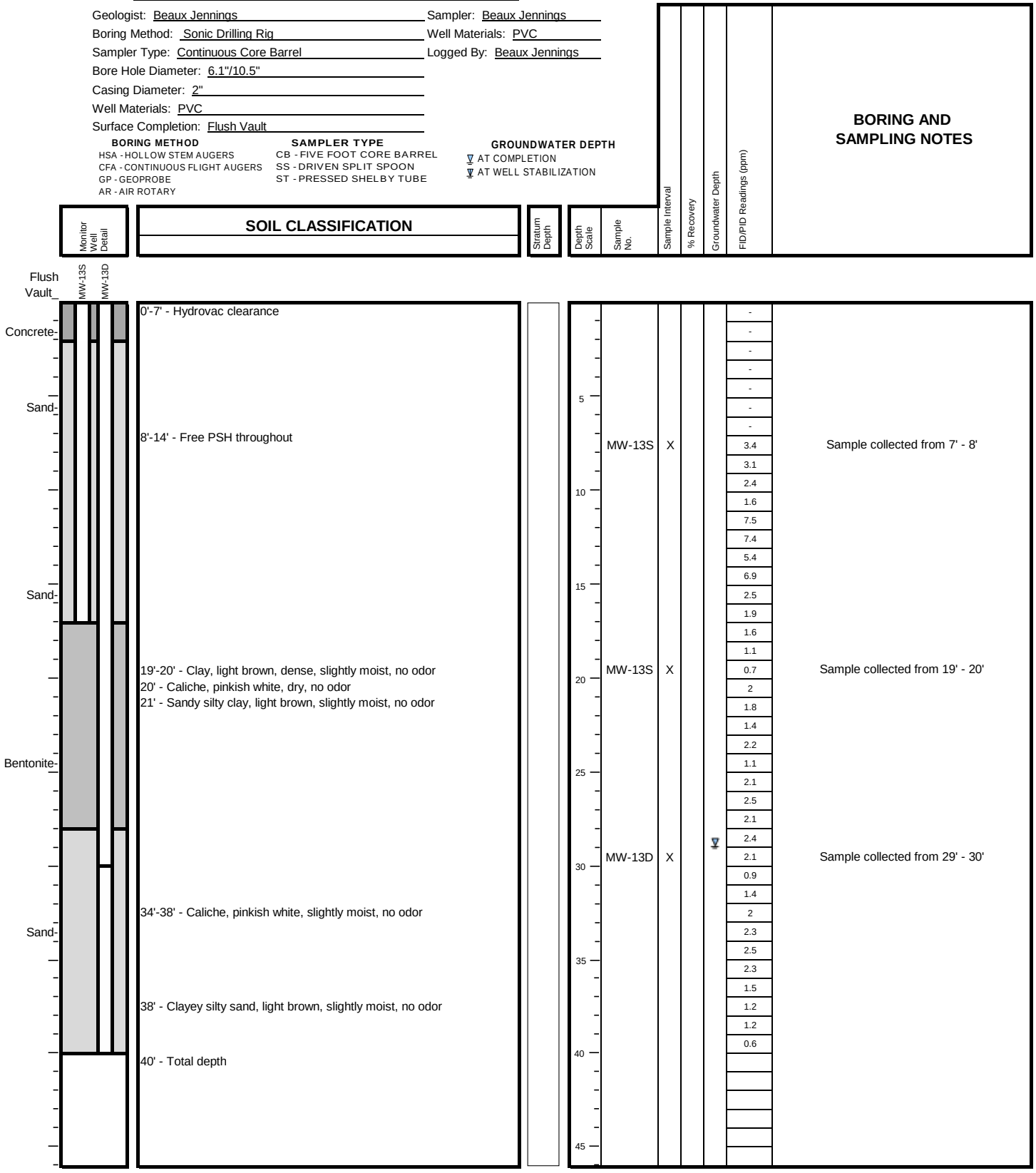
Soil Boring / Well Number: MW-13S/D
Project #: 03B1226001
Drawn By: Beaux Jennings
Approved By: Liz Scaggs

Geologist: Beaux Jennings
Sampler: Beaux Jennings
Boring Method: Sonic Drilling Rig
Well Materials: PVC
Sampler Type: Continuous Core Barrel
Logged By: Beaux Jennings
Bore Hole Diameter: 6.1"/10.5"
Casing Diameter: 2"
Well Materials: PVC
Surface Completion: Flush Vault

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH
▽ AT COMPLETION
▽ AT WELL STABILIZATION



ENSOLUM

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File No. C- 4538

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:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☐ Temporary Request - Requested Start Date: 6/8/21 Requested End Date: 6/11/21

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: Enterprise Field Services, LLC	Name: Ensolum, LLC on behalf of Enterprise Field Services, LLC
Contact or Agent: Mr. Gregory E. Miller — check here if Agent ☐	Contact or Agent: Beaux Jennings — check here if Agent ☒
Mailing Address: P.O. Box 4234	Mailing Address: 705 W Wadley Ave, Suite 210
City: Houston	City: Midland
State: TX Zip Code: 77210	State: TX Zip Code: 79705
Phone: 713-381-8780 ☐ Home ☒ Cell Phone (Work):	Phone: 210-219-8858 ☐ Home ☒ Cell Phone (Work):
E-mail (optional): gemiller@eprod.com	E-mail (optional): bjennings@ensolum.com

FOR OSE INTERNAL USE — Application for Permit, Form WR-07, Rev 11/17/16

File No.: C-4538	Trn. No.: 695555	Receipt No.: 243316
Trans Description (optional): C-4538 POD 1-4		
Sub-Basin: CUB	PCW/LOG Due Date: 5/17/22	

Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

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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)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

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
MW-12S	-104.136534	32.313078	SE¼ SE 1/4 of SE 1/4, S12, T23S, R27E
C-3888-POD9 / MW-12D	-104,8,11.52 / -104.136534	32,18,47.08 / 32.313078	SE¼ SE 1/4 of SE 1/4, S12, T23S, R27E
MW-13S	-104.136251	32.313336	SE¼ SE 1/4 of SE 1/4, S12, T23S, R27E
C-3888-POD10 / MW-13D	104,8,10.5 / -104.136251	32,18,48.01 / 32.313336	SE¼ SE 1/4 of SE 1/4, S12, T23S, 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** _____

Other description relating well to common landmarks, streets, or other:
Site is located on the NW corner of Carrasco Rd and Roberson Rd.

Well is on land owned by: Enterprise Field Services, LLC (from El Paso Natural Gas, deed pending)

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. **Attached?** ■ Yes ☐ No
If yes, how many 2

Approximate depth of well (feet): 40	Outside diameter of well casing (inches): 9
Driller Name: Cascade	Driller License Number: 1664

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Reasoning: Two (2) soil borings will be converted into a permanent monitoring wells to investigate the on-site soils and confined groundwater-bearing unit (GWBU). The soil boring will be installed in the vicinity of current on-site monitoring wells MW-1 and MW-2, advanced to a maximum depth of approximately 40 feet below ground surface (bgs), or auger refusal, whichever is more shallow. Due to the observed confined GWBU at the Site, the nested well will be installed to confirm that there is no communication between the upper and lower GWBU.

Duration: Monitoring will occur semi-annually in conjunction with the current on-site monitoring well network.

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: C- 4538 | Trn No.: 695555

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

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:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
☐ Include a description of any proposed pump test, if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ■ Include the reason for the monitoring well, and, ■ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ 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.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Beaux Jennings and Gregory Miller
Print Name(s)

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

Beaux Jennings Digitally signed by Beaux Jennings Date: 2021.04.27 11:23:54 -05'00'
Applicant Signature

Gregory E Miller
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 17th day of May 20 21, for the State Engineer.

John R. D'Antonio, Jr., P.E., State Engineer

By: Juan Hernandez
Signature Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4538 Trn No.: 695555

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NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

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.

17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

Trn Desc: C 04538 POD1-4

File Number: C 04538
Trn Number: 695555

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NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04538 POD3 must be completed and the Well Log filed on or before 05/17/2022.

LOG The Point of Diversion C 04538 POD4 must be completed and the Well Log filed on or before 05/17/2022.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 05/03/2021	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 17 day of May A.D., 2021

John R. D'Antonio, Jr., P.E., State Engineer

By: JUAN HERNANDEZ

Trn Desc: C 04538 POD1-4

File Number: C 04538
Trn Number: 695555

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John R. D Antonio, Jr., P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 695555
File Nbr: C 04538

May. 17, 2021

BEAUX JENNINGS
ENSOLUM LLC
705 W WADLEY AVE SUITE 210
MIDLAND, TX 79705

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,

Andrew Dennis
(575)622-6521

Enclosure

explore

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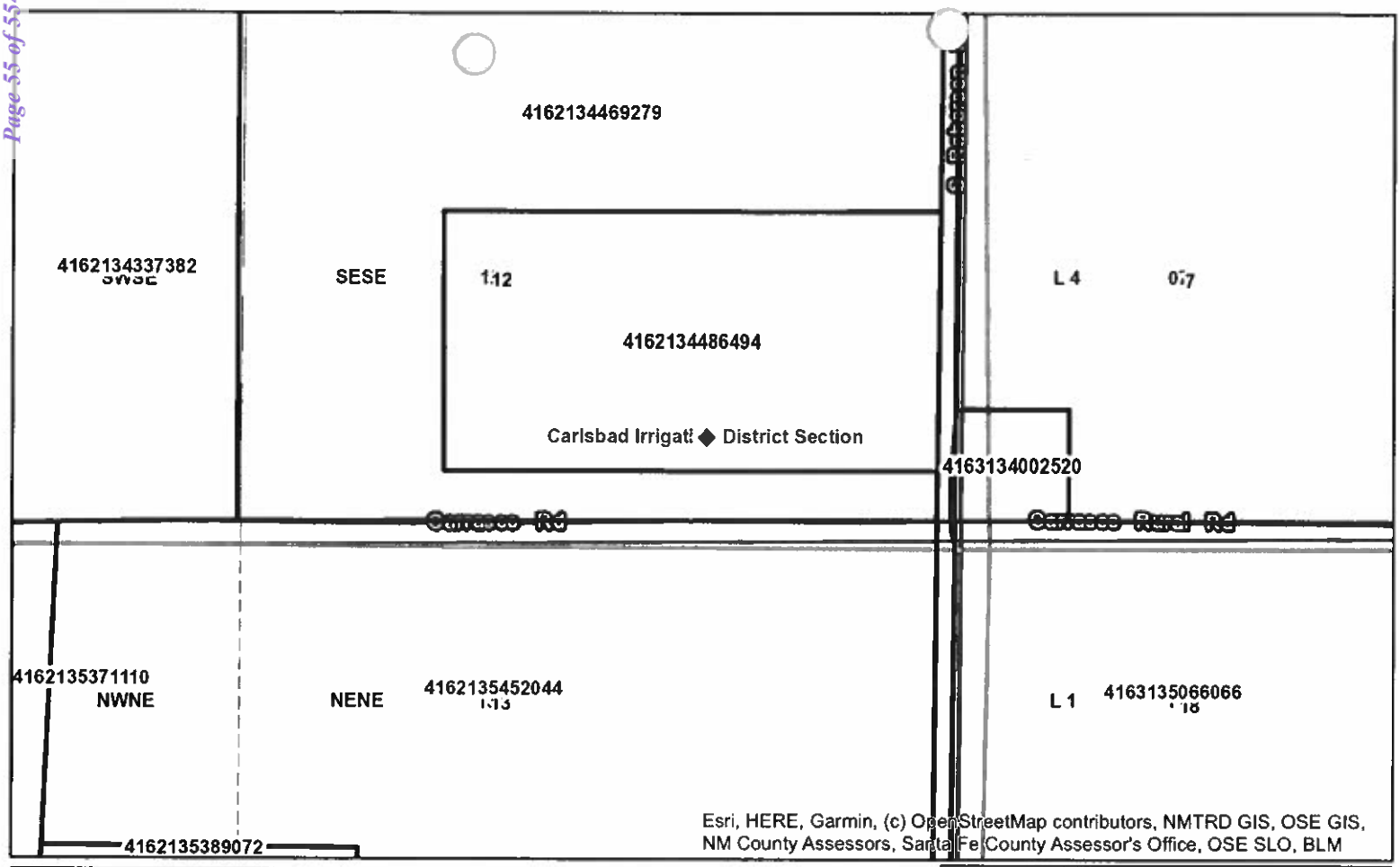

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 581282.832
Northing 3575465.712

State Plane - NAD 83 (f) - Zone E

Easting 602137.656
Northing 477684.009

Degrees Minutes Seconds

Latitude 32 : 18 : 47.080800
Longitude -104 : 8 : 11.522400

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft
0 90 180 360

N

A. Dennis 5/17/2021

Spatial Information

County: Eddy
Groundwater Basin: Carlsbad
Abstract Area:C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SWSESESE Qtr of Sec 12 of 023S 027E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4162134486494
Parcel Owner: EL PASO NATURAL GAS
Address:null null null

Legal: Quarter: SE S: 12 T: 23S R: 27E BEG SE COR N 100' M/L TO POB; N 89 DEG 55'W 926.8', N 0 DEG 25'E 470', S 89 DEG 55' E 926.8', S 0 DEG 25' W 470' TO POB

POD Information

Owner: Enterprise Field Services LLC
File Number: C-4538 POD1 (MW-12S)
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

Eddy County Parcels 2020

Hydro Survey Boundary

<all other values>

None

All

Partial

Hydro Survey Footprints

Sections

BLM Land Grant

PLSSTownship

PLSSFirstDiv...

PLSSSecond...

Received by OCD: 6/10/2024 12:12:43 PM

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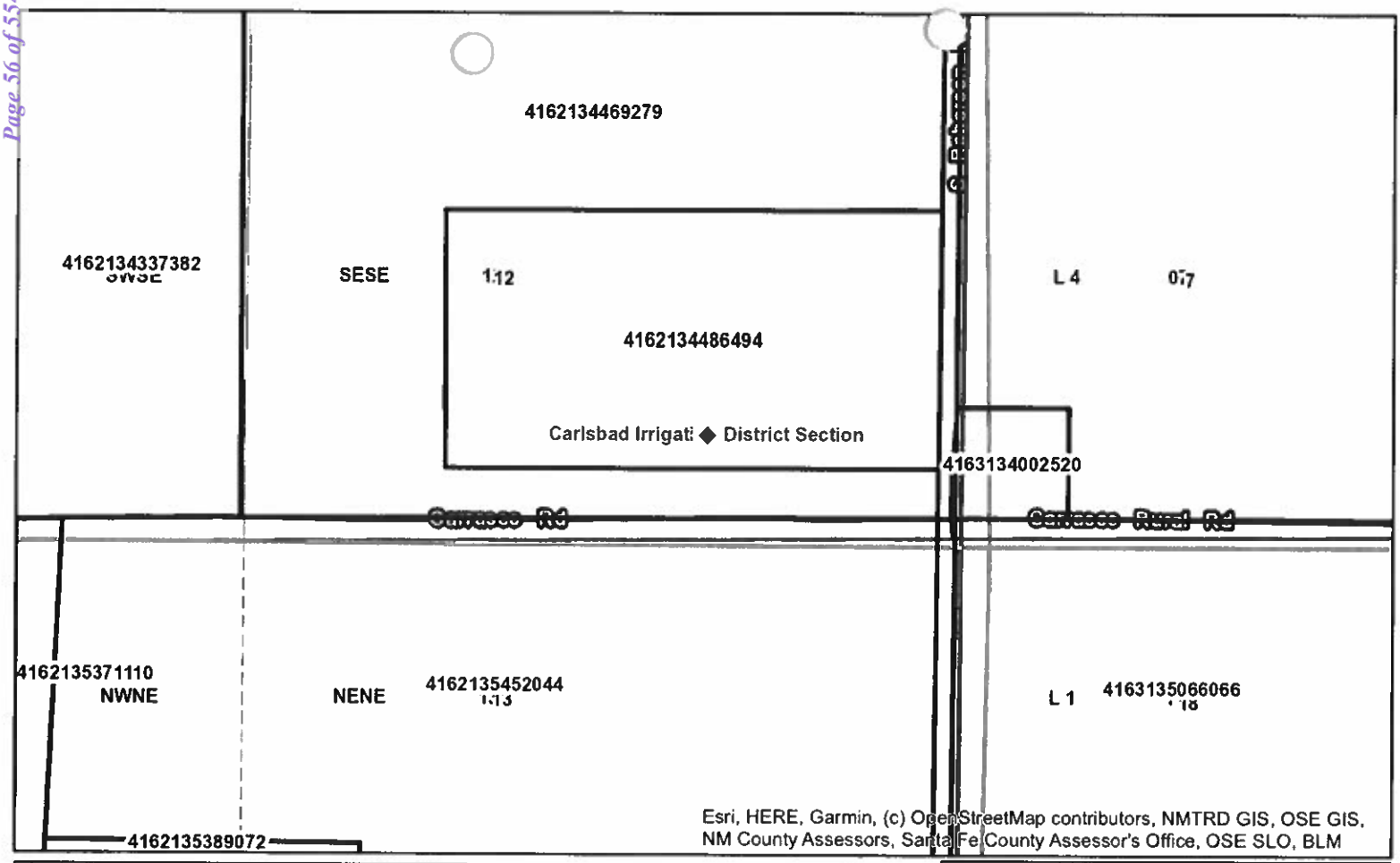

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 581282.832

Northing 3575465.712

State Plane - NAD 83 (f) - Zone E

Easting 602137.656

Northing 477684.009

Degrees Minutes Seconds

Latitude 32 : 18 : 47.080800

Longitude -104 : 8 : 11.522400

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft

0 90 180 360

N

A. Dennis 5/17/2021

Office of the State Engineer nm Interstate Stream Commission

Spatial Information

County: Eddy

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
SWSESESE Qtr of Sec 12 of 023S 027E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4162134486494

Parcel Owner: EL PASO NATURAL GAS

Address: null null null

Legal: Quarter: SE S: 12 T: 23S R: 27E BEG SE COR N 100' M/L TO POB; N 89 DEG 55'W 926.8', N 0 DEG 25'E 470', S 89 DEG 55' E 926.8', S 0 DEG 25' W 470' TO POB

POD Information

Owner: Enterprise Field Services LLC

File Number: C-4538 POD2 (MW-12D)

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

Eddy County Parcels 2020

Hydro Survey Boundary

<all other values>

None

All

Partial

Hydro Survey Footprints

Sections

BLM Land Grant

PLSSTownship

PLSSFirstDiv...

PLSSSecond...

Received by OCD: 6/10/2024 12:12:43 PM

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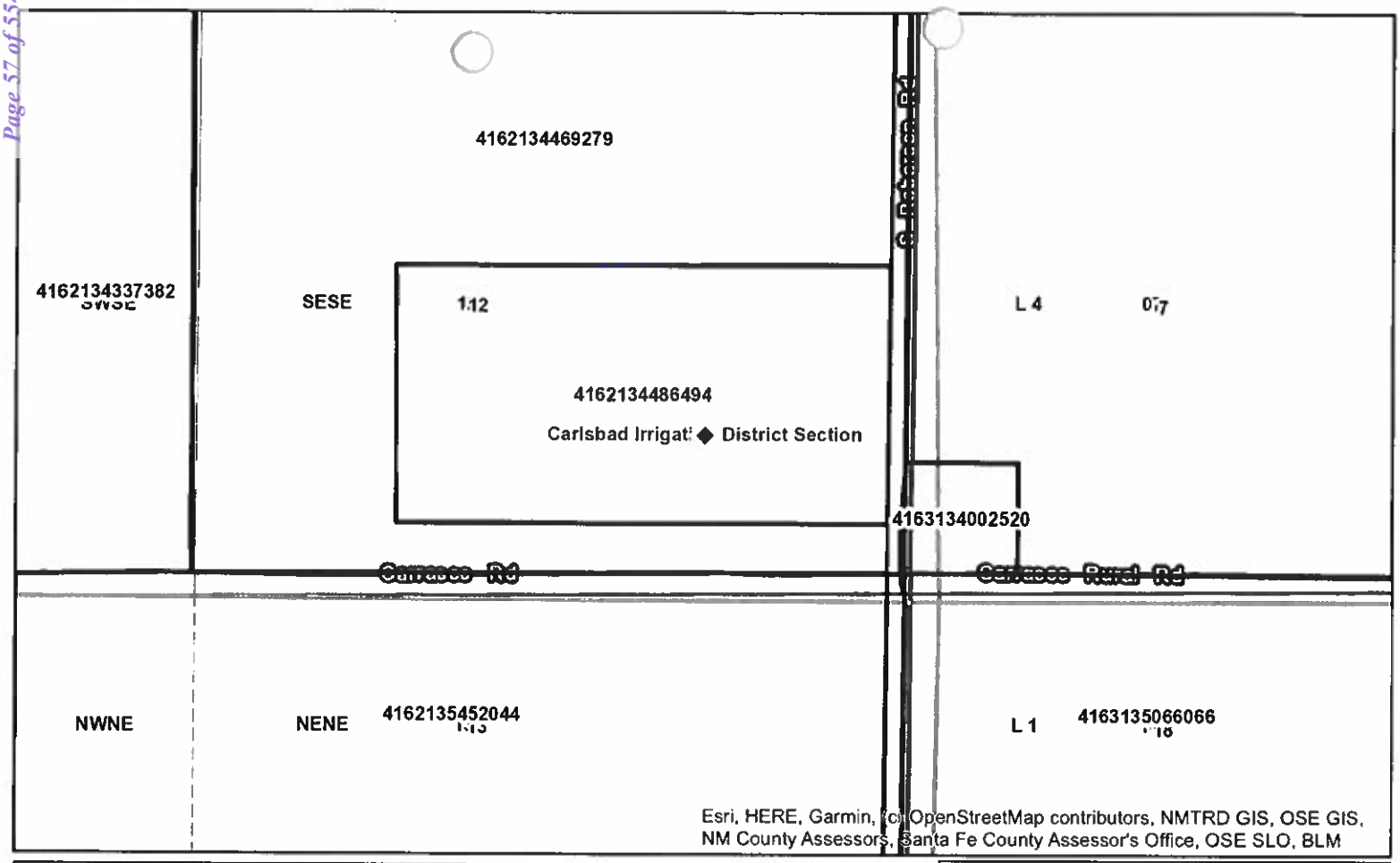

Coordinates

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Easting 581309.221
Northing 3575497.187

State Plane - NAD 83 (f) - Zone E
Easting 602224.895
Northing 477786.758

Degrees Minutes Seconds
Latitude 32 : 18 : 48.096000
Longitude -104 : 8 : 10.503600

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft
0 90 180 360

N

A. Dennis 5/17/2021

Spatial Information

County: Eddy
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SWSESESE Qtr of Sec 12 of 023S 027E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4162134486494
Parcel Owner: EL PASO NATURAL GAS
Address: null null null

Legal: Quarter: SE S: 12 T: 23S R: 27E BEG SE COR N 100' M/L TO POB; N 89 DEG 55'W 926.8', N 0 DEG 25'E 470', S 89 DEG 55' E 926.8', S 0 DEG 25' W 470' TO POB

POD Information

Owner: Enterprise Field Services LLC
File Number: C-4538 POD3 (MW-13S)
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

Eddy County Parcels 2020

Hydro Survey Boundary

<all other values>

None

All

Partial

Hydro Survey Footprints

Sections

BLM Land Grant

PLSSTownship

PLSSFirstDiv...

PLSSSecond...

Received by OCD: 6/10/2024 12:12:43 PM

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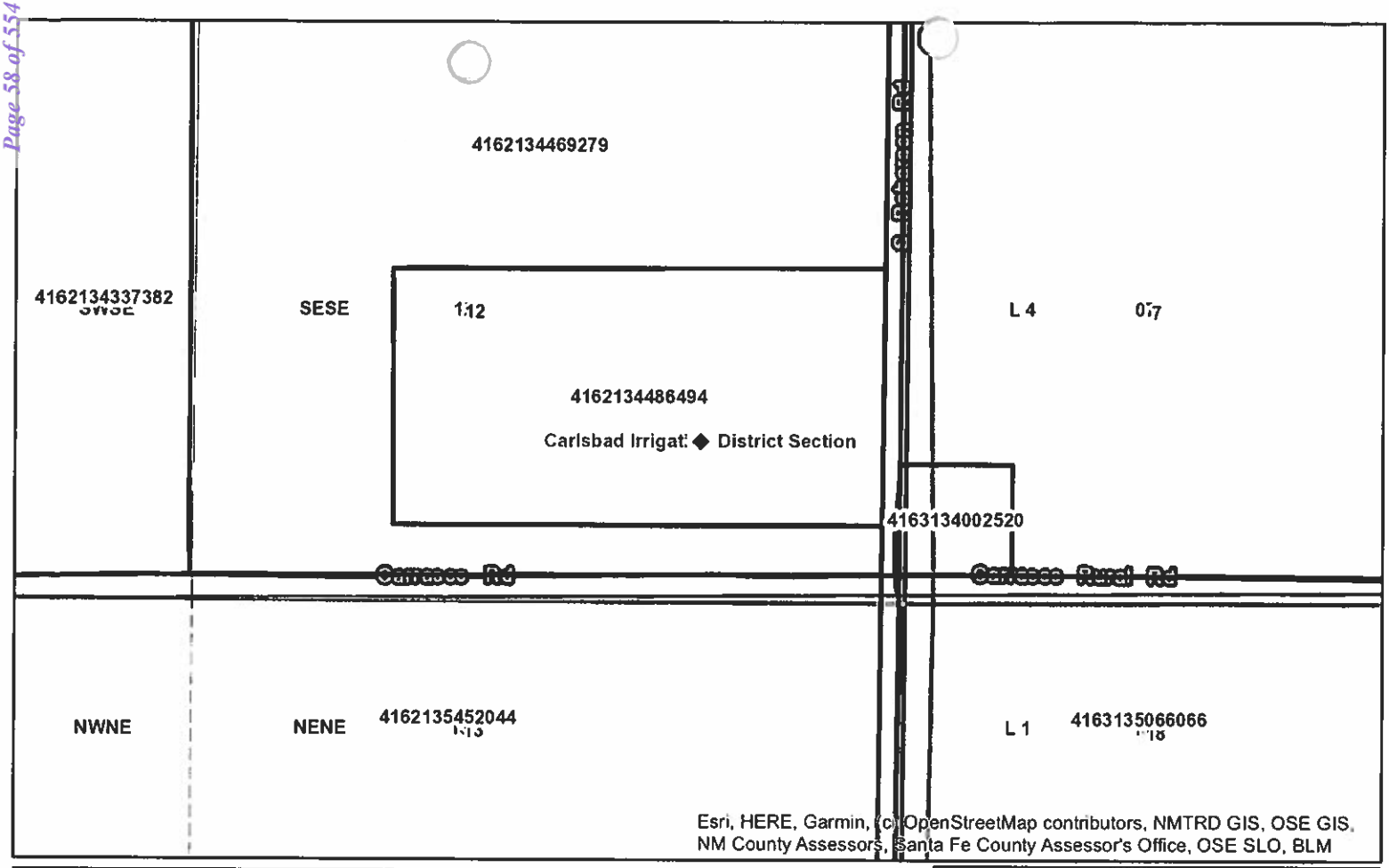

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 581309.243

Northing 3575494.527

State Plane - NAD 83 (f) - Zone E

Easting 602224.911

Northing 477778.027

Degrees Minutes Seconds

Latitude 32 : 18 : 48.009600

Longitude -104 : 8 : 10.503600

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft

0 90 180 360

N

A. Dennis 5/17/2021

Spatial Information

County: Eddy

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
SWSESESE Qtr of Sec 12 of 023S 027E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4162134486494

Parcel Owner: EL PASO NATURAL GAS

Address: null null null

Legal: Quarter: SE S: 12 T: 23S R: 27E BEG SE COR N 100' M/L TO POB; N 89 DEG 55'W 926.8', N 0 DEG 25'E 470', S 89 DEG 55' E 926.8', S 0 DEG 25' W 470' TO POB

POD Information

Owner: Enterprise Field Services LLC

File Number: C-4538 POD4 (MW-13D)

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

Eddy County Parcels 2020

Hydro Survey Boundary

<all other values>

None

All

Partial

Hydro Survey Footprints

Sections

BLM Land Grant

PLSSTownship

PLSSFirstDiv...

PLSSSecond...

Received by OCD: 6/10/2024 12:12:43 PM

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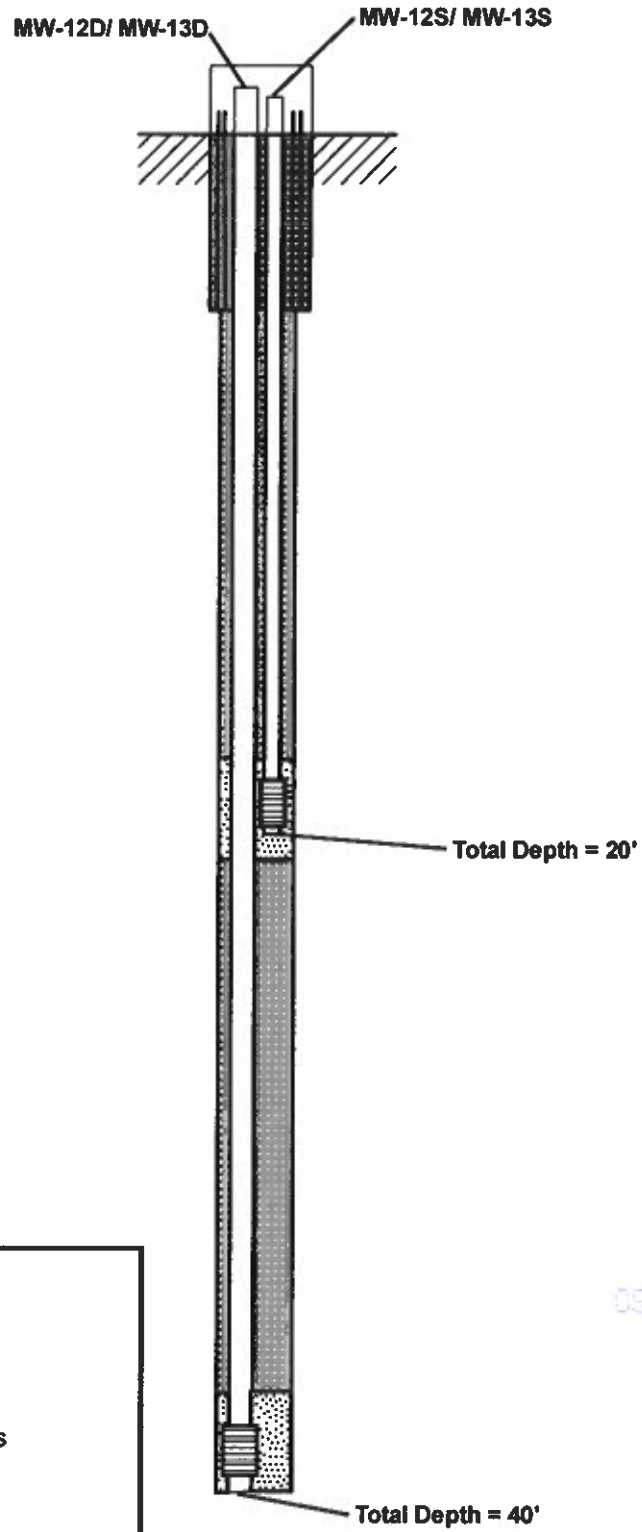

LEGEND:
- Surface Casing
- Land Surface
- Cement
- Bentonite Hydrated Chips
- Screen Interval
- Filter Pack Interval

0 2.5 5 Feet

DSE DE NOV 3 2021 4:16:50

ENSOLUM
Environmental & Hydrogeologic Consultants

NESTED MONITORING WELL

ENTERPRISE FIELD SERVICES, LLC
SOUTH CARLSBAD COMPRESSOR STATION
NW Corner of Carrasco Road and CR 710, Carlsbad, Eddy County, New Mexico
32.313441° N, 104.136360° W

PROJECT NUMBER: 03B1226001

ATTACHMENT A

Received by OCD: 6/10/2024 12:12:43 PM
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Recorded at the request of: El Paso Natural Gas Company, L.L.C.

After recording return to:
El Paso Natural Gas Company, L.L.C.
1001 Louisiana Street,
Suite #100, Attn: Land & ROW
Houston, TX 77002

Reception: 1914019 Book: 1129 Page: 0318 Pages: 3
Recorded: 10/18/2019 01:47 PM Fee: $25.00
Eddy County, New Mexico ~ Robin Van Natta, County Clerk
eRecorded Document
RN

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

Quitclaim Deed

For a valuable consideration, **El Paso Natural Gas Company, L.L.C.**, a Delaware limited liability company, together with its heirs, assigns, partners, or any other affiliated parties (GRANTOR), does hereby quitclaim to **Enterprise Field Services, LLC**, a Texas limited liability company (GRANTEE) all rights, title and interests of the following:

9.996 acres, more or less, out of Section 12, Township 23 South, Range 27 East, NMPM, Eddy County, New Mexico, as more particularly described and depicted on Exhibit "A" attached hereto and made a part hereof

In witness of this Quitclaim Deed, executed in full on this 8 day of October, 2019.

GRANTOR
El Paso Natural Gas Company, L.L.C.
By: _____
Name: Chris M. Meyer
Title: President

GRANTEE
Enterprise Field Services, LLC
By: _____
Name Carl D. Richardson
Title: Agent and Atttorney-in-Fact

ACKNOWLEDGEMENTS

STATE OF COLORADO §
§
COUNTY OF EL PASO §

This instrument was acknowledged before me on this 8 day of October, 2019, by Chris M. Meyer, as President, for El Paso Natural Gas Company, L.L.C., a limited liability company.

(seal)

STACIE S GONZALEZ
Notary Public - State of Colorado
Notary ID 20184008426
My Commission Expires Feb 21, 2022

Notary Public

STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was acknowledged before me on this 17th day of October 2019, by Carl D. Richardson, as Agent and Attorney in Fact for Enterprise Field Services, LLC, a limited liability company.

(seal)

SHARON AHRENDSEN
Notary ID # 129022449
My Commission Expires
June 14, 2020

Notary Public

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Enterprise Field Services, LLC
El Paso Natural Gas Company, LLC
Eddy County, New Mexico

SAM, LLC-Job No. 36862
REV 4
Page 1 of 1

EXHIBIT "A"

DESCRIPTION FOR A 9.996 ACRE TRACT

BEING A 9.996 ACRE (435,443 SQUARE FEET) SITE BEING THE SAME EL PASO NATURAL GAS COMPANY CALLED 9.996 ACRE TRACT SITUATED IN SECTION 12, TOWNSHIP 23 SOUTH, RANGE 27 EAST, NMPM, EDDY COUNTY, NEW MEXICO, RECORDED IN VOLUME 215, PAGE 912 OF THE DEED RECORDS OF EDDY COUNTY, NEW MEXICO (D.R.E.C.N.M.), SAID 9.996 ACRE SITE BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING at a calculated point at the southeast corner of said 9.996 acre site, same being in the east line of said Section 12, from which a 1/2-inch iron rod found at the southeast corner of said Section 12 bears, South 00°05'52" West, a distance of 105.49 feet, said **POINT OF BEGINNING**, having grid coordinates of N=477633.77, E=602595.79.

THENCE, over and across said 9.996 acre site the following four (4) courses and distances:

South 89°45'03" West, leaving said east line, a distance of 926.46 feet to a 1/2-inch iron rod found for the southwest corner of said 9.996 acre tract, same being the southwest corner of the herein described site;

North 00°04'58" East, a distance of 469.97 feet to a 1/2-inch iron rod found for the northwest corner of said 9.996 acre tract, same being the northwest corner of the herein described site, from which a 1/2-inch iron rod found at the south quarter corner of said Section 12 bears, South 71°28'50" West, a distance of 1832.28 feet;

North 89°44'58" East, a distance of 926.58 feet to a calculated point in the east line of said Section 12, same being the northeast corner of the herein described site;

South 00°05'52" West, along said east line, a distance of 470.00 feet to the **POINT OF BEGINNING**, containing 9.996 acres of land.

This description contains a total of 9.996 acres (435,443 square feet) of land, more or less.

Notes
1) Bearings are based upon New Mexico State Plane Coordinates, East Zone (3001), NAD83(2007), as established by GPS observations tied to the NGS CORS network and are used to denote angles only. Distances stated herein are grid measurements, U.S. Survey Feet.
2) Description is based upon observable field evidence, prior surveys, and documents of record.
3) For additional information, see attached plat (Exhibit "B") in conjunction with and considered an integral part of this description.
4) Date of Survey: May 01, 2016.

I hereby certify this description to be true and correct to the best of my knowledge and belief.

CODY A. CLARK NEW MEXICO 23001 PROFESSIONAL SURVEYOR

4/12/17

Cody A. Clark Date
Professional Surveyor
NM PS #23001

Surveying And Mapping, LLC
7101 Envoy Ct.
Dallas, Texas 75247

RECEIVED OCD MAY 3 2021 11:10:50

\\samlec\sam\PROJECTS\101636862\100\Survey\07Descriptions\NM-ED-0001.00000_R4.docx

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...IT OF EASEMENT – EXHIBIT "B"
EDDY COUNTY, NEW MEXICO

GRAPHIC SCALE
0 250 500 1000
(IN FEET)
1 INCH = 500 FT

N

LINE TABLE		
NUMBER	DIRECTION	LENGTH
L1	S89°45'03"W	926.48'
L2	N00°04'56"E	469.97'
L3	N89°44'56"E	928.58'
L4	S00°05'52"W	470.00'
L5	S00°05'52"W	105.49'

SECTION 12
TOWNSHIP 23 SOUTH
RANGE 27 EAST

SW/4

SE/4

S. ROBERTSON ROAD 710

ENTERPRISE FIELD SERVICES, L.L.C.
(EL PASO NATURAL GAS COMPANY)
CALLED 9.996 ACRES
VOL. 215, PG. 912
D.R.E.C.N.M.

JESUS N. CARRASCO
VOL. 200, PG. 303
D.R.E.C.N.M.

L3

S71°28'50"W 1832.28'

L2

9.996 ACRES
435,443 SQUARE FEET

L4

P.O.B.
N=477833.77
E=602595.79

L1

L5

P.O.R.

13 18

P.O.R.

NOTES:
1. ALL BEARINGS, DISTANCES, AND COORDINATES ARE BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE (3001), NAD 83 (2007).
2. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE. THERE MAY BE EASEMENTS OR OTHER MATTERS OF RECORD NOT SHOWN. RECORD INFORMATION SHOWN HEREON ARE BASED UPON A PUBLIC RECORDS SEARCH PERFORMED BY OTHERS.
3. A DESCRIPTION OF SAME DATE ACCOMPANIES THIS PLAT.

Cody ACC 4/12/17

CODY A. CLARK
PROFESSIONAL SURVEYOR
NM PS @23001

DATE

CODY A. CLARK
NEW MEXICO
23001
PROFESSIONAL SURVEYOR

LEGEND

	PROPOSED PERMANENT COMPRESSOR SITE
	PROPOSED CENTERLINE
	PROPERTY LINE
	SECTION LINE
	PERMANENT EASEMENT
●	1/2 INCH IRON ROD OR REBAR FOUND (AS NOTED)
▲	CALCULATED POINT
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINATION
P.O.R.	POINT OF REFERENCE
D.R.E.C.N.M.	DEED RECORDS OF EDDY COUNTY, NEW MEXICO

PAGE 1 OF 1

PROJECT: S. EDDY KM SITE	
JOB NUMBER: 38862	
DATE: 10/12/2016 – REV 3	
SCALE: 1"=500'	
TRACT ID: NM-ED-0001.00080-CS	
DRAWN BY: LT	

ENTERPRISE FIELD SERVICES, LLC

SAM

ENTERPRISE FIELD SERVICES, L.L.C.
(EL PASO NATURAL GAS COMPANY)
TRACT
SECTION 12, T23S–R27E
EDDY COUNTY, NEW MEXICO

NM-ED-0001.00080-CS_R3.DWG

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ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Dallas
9701 Harry Hines Blvd
Dallas, TX 75220
Tel: (214)902-0300

Laboratory Job ID: 870-1178-1
Client Project/Site: South Carlsbad CS

For:
Ensolum
2351 W. Northwest Hwy
Suite 1203
Dallas, Texas 75220

Attn: Joe Gable

JKramer

Authorized for release by:
5/26/2021 1:30:15 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad CS

Laboratory Job ID: 870-1178-1

Table of Contents

Cover Page 1
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Surrogate Summary 12
QC Sample Results 13
QC Association Summary 17
Lab Chronicle 19
Certification Summary 22
Method Summary 23
Sample Summary 24
Chain of Custody 25
Receipt Checklists 27

Definitions/Glossary

Client: Ensolum Job ID: 870-1178-1
Project/Site: South Carlsbad CS

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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi 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.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Job ID: 870-1178-1

Laboratory: Eurofins Xenco, Dallas

Narrative

Job Narrative
870-1178-1

Receipt
The samples were received on 5/21/2021 2:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-11S (870-1178-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-11S (870-1178-10). 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.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 870-1178-1
Project/Site: South Carlsbad CS

Client Sample ID: MW-9
Lab Sample ID: 870-1178-1
Date Collected: 05/20/21 09:20
Matrix: Water
Date Received: 05/21/21 14:03

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 13:29	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 13:29	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 13:29	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 13:29	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 13:29	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 13:29	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*05/24/21 13:29*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*05/24/21 13:29*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*05/24/21 13:29*	*1*
Toluene-d8 (Surr)	*99*		*80 - 117*		*05/24/21 13:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.935	U	4.73	0.935	mg/L		05/24/21 10:49	05/24/21 12:49	1
Diesel Range Organics (Over C10-C28)	<0.935	U	4.73	0.935	mg/L		05/24/21 10:49	05/24/21 12:49	1
OII Range Organics (Over C28-C36)	<0.902	U	4.73	0.902	mg/L		05/24/21 10:49	05/24/21 12:49	1
Total TPH	<0.935	U	4.73	0.935	mg/L		05/24/21 10:49	05/24/21 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 135*	*05/24/21 10:49*	*05/24/21 12:49*	*1*
o-Terphenyl	*96*		*70 - 135*	*05/24/21 10:49*	*05/24/21 12:49*	*1*

Client Sample ID: MW-4
Lab Sample ID: 870-1178-2
Date Collected: 05/20/21 09:50
Matrix: Water
Date Received: 05/21/21 14:03

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 15:30	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 15:30	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 15:30	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 15:30	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 15:30	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 15:30	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*05/24/21 15:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*05/24/21 15:30*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*05/24/21 15:30*	*1*
Toluene-d8 (Surr)	*98*		*80 - 117*		*05/24/21 15:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.932	U	4.72	0.932	mg/L		05/24/21 10:49	05/24/21 13:25	1

Client Sample Results

Client: Ensolum
Job ID: 870-1178-1
Project/Site: South Carlsbad CS

Client Sample ID: MW-4
Lab Sample ID: 870-1178-2
Date Collected: 05/20/21 09:50
Matrix: Water
Date Received: 05/21/21 14:03

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932	mg/L		05/24/21 10:49	05/24/21 13:25	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		05/24/21 10:49	05/24/21 13:25	1
Total TPH	<0.932	U	4.72	0.932	mg/L		05/24/21 10:49	05/24/21 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 135*	*05/24/21 10:49*	*05/24/21 13:25*	*1*
o-Terphenyl	*99*		*70 - 135*	*05/24/21 10:49*	*05/24/21 13:25*	*1*

Client Sample ID: MW-3
Lab Sample ID: 870-1178-3
Date Collected: 05/20/21 10:20
Matrix: Water
Date Received: 05/21/21 14:03

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 15:47	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 15:47	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 15:47	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 15:47	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 15:47	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 15:47	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*05/24/21 15:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*05/24/21 15:47*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*05/24/21 15:47*	*1*
Toluene-d8 (Surr)	*99*		*80 - 117*		*05/24/21 15:47*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.926	U	4.69	0.926	mg/L		05/24/21 10:49	05/24/21 13:43	1
Diesel Range Organics (Over C10-C28)	<0.926	U	4.69	0.926	mg/L		05/24/21 10:49	05/24/21 13:43	1
OII Range Organics (Over C28-C36)	<0.894	U	4.69	0.894	mg/L		05/24/21 10:49	05/24/21 13:43	1
Total TPH	<0.926	U	4.69	0.926	mg/L		05/24/21 10:49	05/24/21 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 135*	*05/24/21 10:49*	*05/24/21 13:43*	*1*
o-Terphenyl	*99*		*70 - 135*	*05/24/21 10:49*	*05/24/21 13:43*	*1*

Client Sample ID: MW-5
Lab Sample ID: 870-1178-4
Date Collected: 05/20/21 10:55
Matrix: Water
Date Received: 05/21/21 14:03

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 16:04	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 16:04	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 16:04	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 16:04	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Client Sample ID: MW-5

Date Collected: 05/20/21 10:55
Date Received: 05/21/21 14:03

Lab Sample ID: 870-1178-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 16:04	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 16:04	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*05/24/21 16:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*05/24/21 16:04*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*05/24/21 16:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 117*		*05/24/21 16:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.918	U	4.64	0.918	mg/L		05/24/21 10:49	05/24/21 14:01	1
Diesel Range Organics (Over C10-C28)	<0.918	U	4.64	0.918	mg/L		05/24/21 10:49	05/24/21 14:01	1
OII Range Organics (Over C28-C36)	<0.886	U	4.64	0.886	mg/L		05/24/21 10:49	05/24/21 14:01	1
Total TPH	<0.918	U	4.64	0.918	mg/L		05/24/21 10:49	05/24/21 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 135*	*05/24/21 10:49*	*05/24/21 14:01*	*1*
o-Terphenyl	*98*		*70 - 135*	*05/24/21 10:49*	*05/24/21 14:01*	*1*

Client Sample ID: MW-6

Date Collected: 05/20/21 11:30
Date Received: 05/21/21 14:03

Lab Sample ID: 870-1178-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 16:21	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 16:21	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 16:21	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 16:21	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 16:21	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 16:21	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*05/24/21 16:21*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*05/24/21 16:21*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*05/24/21 16:21*	*1*
Toluene-d8 (Surr)	*98*		*80 - 117*		*05/24/21 16:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		05/24/21 10:49	05/24/21 14:20	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		05/24/21 10:49	05/24/21 14:20	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		05/24/21 10:49	05/24/21 14:20	1
Total TPH	<0.941	U	4.76	0.941	mg/L		05/24/21 10:49	05/24/21 14:20	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Client Sample ID: MW-6

Lab Sample ID: 870-1178-5
Matrix: Water
Date Collected: 05/20/21 11:30
Date Received: 05/21/21 14:03

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135	05/24/21 10:49	05/24/21 14:20	1
o-Terphenyl	94		70 - 135	05/24/21 10:49	05/24/21 14:20	1

Client Sample ID: MW-7

Lab Sample ID: 870-1178-6
Matrix: Water
Date Collected: 05/20/21 12:05
Date Received: 05/21/21 14:03

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 16:38	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 16:38	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 16:38	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 16:38	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 16:38	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 16:38	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		05/24/21 16:38	1
4-Bromofluorobenzene (Surr)	100		74 - 124		05/24/21 16:38	1
Dibromofluoromethane (Surr)	103		75 - 131		05/24/21 16:38	1
Toluene-d8 (Surr)	98		80 - 117		05/24/21 16:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.947	U	4.79	0.947	mg/L		05/24/21 10:49	05/24/21 14:57	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947	mg/L		05/24/21 10:49	05/24/21 14:57	1
OII Range Organics (Over C28-C36)	<0.914	U	4.79	0.914	mg/L		05/24/21 10:49	05/24/21 14:57	1
Total TPH	<0.947	U	4.79	0.947	mg/L		05/24/21 10:49	05/24/21 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 135	05/24/21 10:49	05/24/21 14:57	1
o-Terphenyl	82		70 - 135	05/24/21 10:49	05/24/21 14:57	1

Client Sample ID: MW-8

Lab Sample ID: 870-1178-7
Matrix: Water
Date Collected: 05/20/21 12:55
Date Received: 05/21/21 14:03

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 16:56	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 16:56	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 16:56	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 16:56	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 16:56	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 16:56	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		05/24/21 16:56	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Client Sample ID: MW-8

Date Collected: 05/20/21 12:55
Date Received: 05/21/21 14:03

Lab Sample ID: 870-1178-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		05/24/21 16:56	1
Dibromofluoromethane (Surr)	102		75 - 131		05/24/21 16:56	1
Toluene-d8 (Surr)	98		80 - 117		05/24/21 16:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.929	U	4.70	0.929	mg/L		05/24/21 10:49	05/25/21 11:47	1
Diesel Range Organics (Over C10-C28)	<0.929	U	4.70	0.929	mg/L		05/24/21 10:49	05/25/21 11:47	1
OII Range Organics (Over C28-C36)	<0.897	U	4.70	0.897	mg/L		05/24/21 10:49	05/25/21 11:47	1
Total TPH	<0.929	U	4.70	0.929	mg/L		05/24/21 10:49	05/25/21 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135	05/24/21 10:49	05/25/21 11:47	1
o-Terphenyl	98		70 - 135	05/24/21 10:49	05/25/21 11:47	1

Client Sample ID: MW-10

Date Collected: 05/20/21 13:30
Date Received: 05/21/21 14:03

Lab Sample ID: 870-1178-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000665**	**J**	0.00100	0.000214	mg/L			05/24/21 17:13	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 17:13	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 17:13	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 17:13	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 17:13	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 17:13	1
Total BTEX	**0.000665**	**J**	0.0100	0.000515	mg/L			05/24/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		05/24/21 17:13	1
4-Bromofluorobenzene (Surr)	99		74 - 124		05/24/21 17:13	1
Dibromofluoromethane (Surr)	101		75 - 131		05/24/21 17:13	1
Toluene-d8 (Surr)	98		80 - 117		05/24/21 17:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.926	U	4.69	0.926	mg/L		05/24/21 10:49	05/25/21 12:05	1
Diesel Range Organics (Over C10-C28)	**1.63**	**J**	4.69	0.926	mg/L		05/24/21 10:49	05/25/21 12:05	1
OII Range Organics (Over C28-C36)	<0.894	U	4.69	0.894	mg/L		05/24/21 10:49	05/25/21 12:05	1
Total TPH	**1.63**	**J**	4.69	0.926	mg/L		05/24/21 10:49	05/25/21 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 135	05/24/21 10:49	05/25/21 12:05	1
o-Terphenyl	99		70 - 135	05/24/21 10:49	05/25/21 12:05	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Client Sample ID: MW-11D

Date Collected: 05/20/21 14:15
Date Received: 05/21/21 14:03

Lab Sample ID: 870-1178-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0352**		0.00100	0.000214	mg/L			05/24/21 17:30	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 17:30	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 17:30	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 17:30	1
o-Xylene	**0.000203**	**J**	0.00100	0.000192	mg/L			05/24/21 17:30	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 17:30	1
Total BTEX	**0.0354**		0.0100	0.000515	mg/L			05/24/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*05/24/21 17:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*05/24/21 17:30*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*05/24/21 17:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 117*		*05/24/21 17:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.929	U	4.70	0.929	mg/L		05/24/21 10:49	05/25/21 12:24	1
Diesel Range Organics (Over C10-C28)	<0.929	U	4.70	0.929	mg/L		05/24/21 10:49	05/25/21 12:24	1
OII Range Organics (Over C28-C36)	<0.897	U	4.70	0.897	mg/L		05/24/21 10:49	05/25/21 12:24	1
Total TPH	<0.929	U	4.70	0.929	mg/L		05/24/21 10:49	05/25/21 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 135*	*05/24/21 10:49*	*05/25/21 12:24*	*1*
o-Terphenyl	*92*		*70 - 135*	*05/24/21 10:49*	*05/25/21 12:24*	*1*

Client Sample ID: MW-11S

Date Collected: 05/20/21 14:45
Date Received: 05/21/21 14:03

Lab Sample ID: 870-1178-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.789**		0.0200	0.00429	mg/L			05/25/21 12:56	20
Toluene	**0.00472**	**J**	0.00500	0.00250	mg/L			05/24/21 17:47	5
Ethylbenzene	**0.219**		0.00500	0.00257	mg/L			05/24/21 17:47	5
m,p-Xylenes	**0.0715**		0.0500	0.00165	mg/L			05/24/21 17:47	5
o-Xylene	**0.00548**		0.00500	0.000958	mg/L			05/24/21 17:47	5
Xylenes, Total	**0.0770**		0.0500	0.00165	mg/L			05/24/21 17:47	5
Total BTEX	**1.09**		0.200	0.0103	mg/L			05/25/21 12:56	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*05/24/21 17:47*	*5*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*05/25/21 12:56*	*20*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*05/24/21 17:47*	*5*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*05/25/21 12:56*	*20*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*05/24/21 17:47*	*5*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*05/25/21 12:56*	*20*
Toluene-d8 (Surr)	*98*		*80 - 117*		*05/24/21 17:47*	*5*
Toluene-d8 (Surr)	*99*		*80 - 117*		*05/25/21 12:56*	*20*

Client Sample Results

Client: Ensolum
Job ID: 870-1178-1
Project/Site: South Carlsbad CS

Client Sample ID: MW-11S
Lab Sample ID: 870-1178-10
Date Collected: 05/20/21 14:45
Matrix: Water
Date Received: 05/21/21 14:03

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3.43**	**J**	4.73	0.935	mg/L		05/24/21 10:49	05/25/21 12:42	1
Diesel Range Organics (Over C10-C28)	**6.92**		4.73	0.935	mg/L		05/24/21 10:49	05/25/21 12:42	1
Oil Range Organics (Over C28-C36)	<0.902	U	4.73	0.902	mg/L		05/24/21 10:49	05/25/21 12:42	1
Total TPH	**10.4**		4.73	0.935	mg/L		05/24/21 10:49	05/25/21 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 135*	*05/24/21 10:49*	*05/25/21 12:42*	*1*
o-Terphenyl	*102*		*70 - 135*	*05/24/21 10:49*	*05/25/21 12:42*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 870-1178-11
Date Collected: 05/20/21 00:00
Matrix: Water
Date Received: 05/21/21 14:03

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 13:12	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 13:12	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 13:12	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 13:12	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 13:12	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 13:12	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*05/24/21 13:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*05/24/21 13:12*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*05/24/21 13:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 117*		*05/24/21 13:12*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-117)
870-1178-1	MW-9	103	99	104	99
870-1178-1 MS	MW-9	100	102	101	99
870-1178-2	MW-4	103	97	102	98
870-1178-3	MW-3	103	99	103	99
870-1178-4	MW-5	101	101	102	99
870-1178-5	MW-6	102	100	102	98
870-1178-6	MW-7	103	100	103	98
870-1178-7	MW-8	102	98	102	98
870-1178-8	MW-10	101	99	101	98
870-1178-9	MW-11D	103	97	103	99
870-1178-10	MW-11S	104	97	102	98
870-1178-10	MW-11S	101	99	101	99
870-1178-11	Trip Blank	101	99	104	100
LCS 860-8699/3	Lab Control Sample	101	100	106	101
LCS 860-8823/4	Lab Control Sample	103	101	108	99
LCSD 860-8699/4	Lab Control Sample Dup	99	101	101	99
LCSD 860-8823/5	Lab Control Sample Dup	100	102	101	99
MB 860-8699/7	Method Blank	102	99	104	98
MB 860-8823/8	Method Blank	102	98	102	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
870-1178-1	MW-9	83	96
870-1178-1 MS	MW-9	89	76
870-1178-2	MW-4	86	99
870-1178-3	MW-3	85	99
870-1178-4	MW-5	84	98
870-1178-5	MW-6	81	94
870-1178-6	MW-7	70	82
870-1178-7 - RA	MW-8	81	98
870-1178-8 - RA	MW-10	82	99
870-1178-9 - RA	MW-11D	75	92
870-1178-10 - RA	MW-11S	85	102
LCS 860-8692/2-A	Lab Control Sample	90	78
LCSD 860-8692/3-A	Lab Control Sample Dup	88	75
MB 860-8692/1-A	Method Blank	78	90

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-8699/7
Matrix: Water
Analysis Batch: 8699

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/24/21 12:55	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/24/21 12:55	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/24/21 12:55	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 12:55	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/24/21 12:55	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/24/21 12:55	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/24/21 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*05/24/21 12:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*05/24/21 12:55*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*05/24/21 12:55*	*1*
Toluene-d8 (Surr)	*98*		*80 - 117*		*05/24/21 12:55*	*1*

Lab Sample ID: LCS 860-8699/3
Matrix: Water
Analysis Batch: 8699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04208		mg/L		84	66 - 142		
Toluene			0.0500	0.04306		mg/L		86	59 - 139		
Ethylbenzene			0.0500	0.04617		mg/L		92	75 - 125		
m,p-Xylenes			0.100	0.09131		mg/L		91	75 - 125		
o-Xylene			0.0500	0.04780		mg/L		96	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*106*		*75 - 131*
Toluene-d8 (Surr)	*101*		*80 - 117*

Lab Sample ID: LCSD 860-8699/4
Matrix: Water
Analysis Batch: 8699

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
Benzene			0.0500	0.04144		mg/L		83	66 - 142	2	25
Toluene			0.0500	0.04285		mg/L		86	59 - 139	0	25
Ethylbenzene			0.0500	0.04650		mg/L		93	75 - 125	1	25
m,p-Xylenes			0.100	0.09225		mg/L		92	75 - 125	1	25
o-Xylene			0.0500	0.04701		mg/L		94	75 - 125	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 117*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 870-1178-1 MS
Matrix: Water
Analysis Batch: 8699

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.000214	U	0.0500	0.04248		mg/L		85	66 - 142
Toluene	<0.000500	U	0.0500	0.04354		mg/L		87	59 - 139
Ethylbenzene	<0.000515	U	0.0500	0.04764		mg/L		95	75 - 125
m,p-Xylenes	<0.000330	U	0.100	0.09404		mg/L		94	75 - 125
o-Xylene	<0.000192	U	0.0500	0.04867		mg/L		97	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 117*

Lab Sample ID: MB 860-8823/8
Matrix: Water
Analysis Batch: 8823

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000214	U	0.00100	0.000214	mg/L			05/25/21 11:28	1
Toluene	<0.000500	U	0.00100	0.000500	mg/L			05/25/21 11:28	1
Ethylbenzene	<0.000515	U	0.00100	0.000515	mg/L			05/25/21 11:28	1
m,p-Xylenes	<0.000330	U	0.0100	0.000330	mg/L			05/25/21 11:28	1
o-Xylene	<0.000192	U	0.00100	0.000192	mg/L			05/25/21 11:28	1
Xylenes, Total	<0.000330	U	0.0100	0.000330	mg/L			05/25/21 11:28	1
Total BTEX	<0.000515	U	0.0100	0.000515	mg/L			05/25/21 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*05/25/21 11:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*05/25/21 11:28*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*05/25/21 11:28*	*1*
Toluene-d8 (Surr)	*99*		*80 - 117*		*05/25/21 11:28*	*1*

Lab Sample ID: LCS 860-8823/4
Matrix: Water
Analysis Batch: 8823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.0500	0.04127		mg/L		83	66 - 142
Toluene			0.0500	0.04340		mg/L		87	59 - 139
Ethylbenzene			0.0500	0.04745		mg/L		95	75 - 125
m,p-Xylenes			0.100	0.09357		mg/L		94	75 - 125
o-Xylene			0.0500	0.04918		mg/L		98	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*108*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 117*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-8823/5
Matrix: Water
Analysis Batch: 8823

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
Benzene			0.0500	0.04084		mg/L		82	66 - 142	1	25
Toluene			0.0500	0.04358		mg/L		87	59 - 139	0	25
Ethylbenzene			0.0500	0.04790		mg/L		96	75 - 125	1	25
m,p-Xylenes			0.100	0.09563		mg/L		96	75 - 125	2	25
o-Xylene			0.0500	0.04921		mg/L		98	75 - 125	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 117*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-8692/1-A
Matrix: Water
Analysis Batch: 8700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8692

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		05/24/21 10:49	05/24/21 11:55	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		05/24/21 10:49	05/24/21 11:55	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		05/24/21 10:49	05/24/21 11:55	1
Total TPH	<0.988	U	5.00	0.988	mg/L		05/24/21 10:49	05/24/21 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 135*	*05/24/21 10:49*	*05/24/21 11:55*	*1*
o-Terphenyl	*90*		*70 - 135*	*05/24/21 10:49*	*05/24/21 11:55*	*1*

Lab Sample ID: LCS 860-8692/2-A
Matrix: Water
Analysis Batch: 8700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8692

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			100	88.64		mg/L		89	70 - 135		
Diesel Range Organics (Over C10-C28)			100	82.84		mg/L		83	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 135*
o-Terphenyl	*78*		*70 - 135*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-8692/3-A
Matrix: Water
Analysis Batch: 8700

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8692

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			100	86.19		mg/L		86	70 - 135	3	35
Diesel Range Organics (Over C10-C28)			100	77.19		mg/L		77	70 - 135	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 135*
o-Terphenyl	*75*		*70 - 135*

Lab Sample ID: 870-1178-1 MS
Matrix: Water
Analysis Batch: 8700

Client Sample ID: MW-9
Prep Type: Total/NA
Prep Batch: 8692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<0.935	U	93.5	79.30		mg/L		85	70 - 135
Diesel Range Organics (Over C10-C28)	<0.935	U	93.5	74.62		mg/L		80	70 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 135*
o-Terphenyl	*76*		*70 - 135*

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

GC/MS VOA

Analysis Batch: 8699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-1178-1	MW-9	Total/NA	Water	8260C	
870-1178-2	MW-4	Total/NA	Water	8260C	
870-1178-3	MW-3	Total/NA	Water	8260C	
870-1178-4	MW-5	Total/NA	Water	8260C	
870-1178-5	MW-6	Total/NA	Water	8260C	
870-1178-6	MW-7	Total/NA	Water	8260C	
870-1178-7	MW-8	Total/NA	Water	8260C	
870-1178-8	MW-10	Total/NA	Water	8260C	
870-1178-9	MW-11D	Total/NA	Water	8260C	
870-1178-10	MW-11S	Total/NA	Water	8260C	
870-1178-11	Trip Blank	Total/NA	Water	8260C	
MB 860-8699/7	Method Blank	Total/NA	Water	8260C	
LCS 860-8699/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-8699/4	Lab Control Sample Dup	Total/NA	Water	8260C	
870-1178-1 MS	MW-9	Total/NA	Water	8260C	

Analysis Batch: 8823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-1178-10	MW-11S	Total/NA	Water	8260C	
MB 860-8823/8	Method Blank	Total/NA	Water	8260C	
LCS 860-8823/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-8823/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Prep Batch: 8692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-1178-1	MW-9	Total/NA	Water	8015NM Aq Prep	
870-1178-2	MW-4	Total/NA	Water	8015NM Aq Prep	
870-1178-3	MW-3	Total/NA	Water	8015NM Aq Prep	
870-1178-4	MW-5	Total/NA	Water	8015NM Aq Prep	
870-1178-5	MW-6	Total/NA	Water	8015NM Aq Prep	
870-1178-6	MW-7	Total/NA	Water	8015NM Aq Prep	
870-1178-7 - RA	MW-8	Total/NA	Water	8015NM Aq Prep	
870-1178-8 - RA	MW-10	Total/NA	Water	8015NM Aq Prep	
870-1178-9 - RA	MW-11D	Total/NA	Water	8015NM Aq Prep	
870-1178-10 - RA	MW-11S	Total/NA	Water	8015NM Aq Prep	
MB 860-8692/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-8692/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-8692/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
870-1178-1 MS	MW-9	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 8700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-1178-1	MW-9	Total/NA	Water	8015B NM	8692
870-1178-2	MW-4	Total/NA	Water	8015B NM	8692
870-1178-3	MW-3	Total/NA	Water	8015B NM	8692
870-1178-4	MW-5	Total/NA	Water	8015B NM	8692
870-1178-5	MW-6	Total/NA	Water	8015B NM	8692
870-1178-6	MW-7	Total/NA	Water	8015B NM	8692
MB 860-8692/1-A	Method Blank	Total/NA	Water	8015B NM	8692

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

GC Semi VOA (Continued)

Analysis Batch: 8700 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-8692/2-A	Lab Control Sample	Total/NA	Water	8015B NM	8692
LCSD 860-8692/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	8692
870-1178-1 MS	MW-9	Total/NA	Water	8015B NM	8692

Analysis Batch: 8812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-1178-7 - RA	MW-8	Total/NA	Water	8015B NM	8692
870-1178-8 - RA	MW-10	Total/NA	Water	8015B NM	8692
870-1178-9 - RA	MW-11D	Total/NA	Water	8015B NM	8692
870-1178-10 - RA	MW-11S	Total/NA	Water	8015B NM	8692

Lab Chronicle

Client: Ensolum
Job ID: 870-1178-1
Project/Site: South Carlsbad CS

Client Sample ID: MW-9
Lab Sample ID: 870-1178-1
Date Collected: 05/20/21 09:20
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 13:29	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep			31.7 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			8700	05/24/21 12:49	IS	XEN STF

Client Sample ID: MW-4
Lab Sample ID: 870-1178-2
Date Collected: 05/20/21 09:50
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 15:30	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep			31.8 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			8700	05/24/21 13:25	IS	XEN STF

Client Sample ID: MW-3
Lab Sample ID: 870-1178-3
Date Collected: 05/20/21 10:20
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 15:47	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep			32 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			8700	05/24/21 13:43	IS	XEN STF

Client Sample ID: MW-5
Lab Sample ID: 870-1178-4
Date Collected: 05/20/21 10:55
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 16:04	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep			32.3 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			8700	05/24/21 14:01	IS	XEN STF

Client Sample ID: MW-6
Lab Sample ID: 870-1178-5
Date Collected: 05/20/21 11:30
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 16:21	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep			31.5 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			8700	05/24/21 14:20	IS	XEN STF

Client Sample ID: MW-7
Lab Sample ID: 870-1178-6
Date Collected: 05/20/21 12:05
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 16:38	AN	XEN STF

Eurofins Xenco, Dallas

Lab Chronicle

Client: Ensolum
Job ID: 870-1178-1
Project/Site: South Carlsbad CS

Client Sample ID: MW-7
Lab Sample ID: 870-1178-6
Date Collected: 05/20/21 12:05
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Aq Prep			31.3 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			8700	05/24/21 14:57	IS	XEN STF

Client Sample ID: MW-8
Lab Sample ID: 870-1178-7
Date Collected: 05/20/21 12:55
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 16:56	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep	RA		31.9 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM	RA	1			8812	05/25/21 11:47	IS	XEN STF

Client Sample ID: MW-10
Lab Sample ID: 870-1178-8
Date Collected: 05/20/21 13:30
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 17:13	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep	RA		32 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM	RA	1			8812	05/25/21 12:05	IS	XEN STF

Client Sample ID: MW-11D
Lab Sample ID: 870-1178-9
Date Collected: 05/20/21 14:15
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 17:30	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep	RA		31.9 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM	RA	1			8812	05/25/21 12:24	IS	XEN STF

Client Sample ID: MW-11S
Lab Sample ID: 870-1178-10
Date Collected: 05/20/21 14:45
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	5 mL	5 mL	8699	05/24/21 17:47	AN	XEN STF
Total/NA	Analysis	8260C		20	5 mL	5 mL	8823	05/25/21 12:56	AN	XEN STF
Total/NA	Prep	8015NM Aq Prep	RA		31.7 mL	3 mL	8692	05/24/21 10:49	DAW	XEN STF
Total/NA	Analysis	8015B NM	RA	1			8812	05/25/21 12:42	IS	XEN STF

Client Sample ID: Trip Blank
Lab Sample ID: 870-1178-11
Date Collected: 05/20/21 00:00
Matrix: Water
Date Received: 05/21/21 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	8699	05/24/21 13:12	AN	XEN STF

Lab Chronicle

Client: Ensolum

Job ID: 870-1178-1

Project/Site: South Carlsbad CS

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Job ID: 870-1178-1
Project/Site: South Carlsbad CS

Laboratory: Eurofins Xenco, Stafford

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	20-025-0	08-04-21
Florida	NELAP	E871002	06-30-21
Louisiana	NELAP	03054	06-30-21
North Carolina (WW/SW)	State	681	12-31-21
Oklahoma	State	1306	08-31-21
Texas	NELAP	T104704215-21-41	06-30-21

Method Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 870-1178-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Job ID: 870-1178-1
Project/Site: South Carlsbad CS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
870-1178-1	MW-9	Water	05/20/21 09:20	05/21/21 14:03	
870-1178-2	MW-4	Water	05/20/21 09:50	05/21/21 14:03	
870-1178-3	MW-3	Water	05/20/21 10:20	05/21/21 14:03	
870-1178-4	MW-5	Water	05/20/21 10:55	05/21/21 14:03	
870-1178-5	MW-6	Water	05/20/21 11:30	05/21/21 14:03	
870-1178-6	MW-7	Water	05/20/21 12:05	05/21/21 14:03	
870-1178-7	MW-8	Water	05/20/21 12:55	05/21/21 14:03	
870-1178-8	MW-10	Water	05/20/21 13:30	05/21/21 14:03	
870-1178-9	MW-11D	Water	05/20/21 14:15	05/21/21 14:03	
870-1178-10	MW-11S	Water	05/20/21 14:45	05/21/21 14:03	
870-1178-11	Trip Blank	Water	05/20/21 00:00	05/21/21 14:03	

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Eurofins Xenco, Dallas
9701 Harry Hines Blvd
Dallas, TX 75220
Phone: 214-902-0300

Chain of Custody Record

eurofins Environment Testing

870-1178

Client Information	Sampler: J. Gable	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 870-601-51 2
Client Contact: Joe Gable / Beaux Jennings	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: NM	Page: Page 2 of 2
Company: Ensolum	PWSID:			Job #:
Address: 2351 W. Northwest Hwy Suite 1203	Due Date Requested:			
City: Dallas	TAT Requested (days):			
State, Zip: TX, 75220	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 03B1226001			
Email: jgable@ensolum.com bjennings@ensolum.com	WO #:			
Project Name: South Carlsbad CS	Project #: 87000475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A		
MW-9	5/20/21	0920	G	Water			X	X		
MW-4		0950								
MW-3		1020								
MW-5		1055								
MW-6		1130								
MW-7		1205								
MW-8		1255								
MW-10		1330								
MW-11D		1415								
MW-11S	5/20/21	1445	G	W			X	X		

870-1178 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: NM Samples

Empty Kit Relinquished by: Date: ~~5/21/21 1130~~ Time: ~~1130~~ JG Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	5/21/21 1130			5/21/21 1130	E.X.
Relinquished by:					
Relinquished by:					

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.8/4.3

Ver: 11 01 2020

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5/26/2021
Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

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Eurofins Xenco Dallas
9701 Harry H nes Blvd
Dallas, TX 75220
Phone: 214-902-0300

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Car ier Tracking No(s)	COC No: 870-677 1
Client Contact: Sh pping/Receiving	Phone:	E-Mai: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP Texas		Job #: 870-1178-1
Address: 4147 Greenbriar Dr	Due Date Requested: 5/27/2021			
City: Stafford	TAT Requested (days):			
State, Zip: TX 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: South Carlsbad CS	Project #: 87000475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

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= Issue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5030C BTEX	8015MOD_NM/8015NM_Aq_Prep Full TPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-9 (870-1178-1)	5/20/21	09:20 Mountain		Water			X	X	5	
MW-4 (870-1178-2)	5/20/21	09:50 Mountain		Water			X	X	5	
MW-3 (870-1178-3)	5/20/21	10:20 Mountain		Water			X	X	5	
MW-5 (870-1178-4)	5/20/21	10.55 Mountain		Water			X	X	5	
MW-6 (870-1178-5)	5/20/21	11 30 Mountain		Water			X	X	5	
MW-7 (870-1178-6)	5/20/21	12 05 Mountain		Water			X	X	5	
MW-8 (870-1178-7)	5/20/21	12 55 Mountain		Water			X	X	5	
MW-10 (870-1178-8)	5/20/21	13 30 Mountain		Water			X	X	5	
MW-11D (870-1178-9)	5/20/21	14.15 Mountain		Water			X	X	5	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody f the laboratory does not currently maintain accreditation in the State of Origin isted above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions wi be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If al requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: II III IV Other (specify) Primary Deliverable Rank. 2	Specia Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
UW	5/21/21	FedEx	FedEx		
Relinquished by: FedEx	Date/Time	Company	Received by: Pedro Padua	Date/Time: 5/22/21 9:35	Company: Ex
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.
		Temp 5 1 IR ID HOU-188 C/F +0.2 Corrected Temp 5 3

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5/26/2021
Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum Job Number: 870-1178-1

Login Number: 1178 **List Source: Eurofins Xenco, Dallas**
List Number: 1
Creator: Capps, Whitney

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	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 870-1178-1

Login Number: 1178
List Number: 2
Creator: Palmar, Pedro

List Source: Eurofins Xenco, Stafford
List Creation: 05/22/21 11:20 AM

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?	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").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-2724-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: South Carlsbad

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
6/7/2021 4:44:34 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad

Laboratory Job ID: 880-2724-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Qualifiers

GC 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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Job ID: 880-2724-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-2724-1

Receipt
The sample was received on 6/4/2021 8:45 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 6.0°C

GC VOA
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.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Client Sample ID: STP-1

Date Collected: 06/03/21 14:00
Date Received: 06/04/21 08:45

Lab Sample ID: 880-2724-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/04/21 15:00	06/05/21 00:29	1
Toluene	**0.000784**	**J**	0.00200	0.000456	mg/Kg		06/04/21 15:00	06/05/21 00:29	1
Ethylbenzene	**0.0313**		0.00200	0.000565	mg/Kg		06/04/21 15:00	06/05/21 00:29	1
m-Xylene & p-Xylene	**0.198**		0.00400	0.00101	mg/Kg		06/04/21 15:00	06/05/21 00:29	1
o-Xylene	**0.0121**		0.00200	0.000344	mg/Kg		06/04/21 15:00	06/05/21 00:29	1
Xylenes, Total	**0.210**		0.00400	0.00101	mg/Kg		06/04/21 15:00	06/05/21 00:29	1
Total BTEX	**0.242**		0.00400	0.00101	mg/Kg		06/04/21 15:00	06/05/21 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*06/04/21 15:00*	*06/05/21 00:29*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/04/21 15:00*	*06/05/21 00:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		06/04/21 11:00	06/04/21 16:16	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		06/04/21 11:00	06/04/21 16:16	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		06/04/21 11:00	06/04/21 16:16	1
Total TPH	<14.9	U	49.8	14.9	mg/Kg		06/04/21 11:00	06/04/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/04/21 11:00*	*06/04/21 16:16*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/04/21 11:00*	*06/04/21 16:16*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-2724-1	STP-1	85	77										
LCS 880-3773/1-B	Lab Control Sample	110	98										
LCSD 880-3773/2-B	Lab Control Sample Dup	110	97										
MB 880-3773/5-B	Method Blank	110	93										
MB 880-3785/5-A	Method Blank	112	94										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-2724-1	STP-1	104	106										
880-2724-1 MS	STP-1	96	88										
880-2724-1 MSD	STP-1	89	80										
LCS 880-3796/2-A	Lab Control Sample	101	94										
LCSD 880-3796/3-A	Lab Control Sample Dup	101	92										
MB 880-3796/1-A	Method Blank	100	105										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3773/5-B
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3773

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/04/21 15:00	06/04/21 23:19	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/04/21 15:00	06/04/21 23:19	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/04/21 15:00	06/04/21 23:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/04/21 15:00	06/04/21 23:19	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/04/21 15:00	06/04/21 23:19	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/04/21 15:00	06/04/21 23:19	1
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg		06/04/21 15:00	06/04/21 23:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/04/21 15:00*	*06/04/21 23:19*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/04/21 15:00*	*06/04/21 23:19*	*1*

Lab Sample ID: LCS 880-3773/1-B
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3773

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09156		mg/Kg		92	70 - 130		
Toluene			0.100	0.1021		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1030		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.2105		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1071		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-3773/2-B
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3773

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09035		mg/Kg		90	70 - 130	1	35
Toluene			0.100	0.1011		mg/Kg		101	70 - 130	1	35
Ethylbenzene			0.100	0.1031		mg/Kg		103	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2117		mg/Kg		106	70 - 130	1	35
o-Xylene			0.100	0.1087		mg/Kg		109	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-3785/5-A
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3785

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/04/21 08:28	06/04/21 11:43	1

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-3785/5-A
Matrix: Solid
Analysis Batch: 3786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3785

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/04/21 08:28	06/04/21 11:43	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/04/21 08:28	06/04/21 11:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/04/21 08:28	06/04/21 11:43	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/04/21 08:28	06/04/21 11:43	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/04/21 08:28	06/04/21 11:43	1
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg		06/04/21 08:28	06/04/21 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/04/21 08:28*	*06/04/21 11:43*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/04/21 08:28*	*06/04/21 11:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-3796/1-A
Matrix: Solid
Analysis Batch: 3802

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3796

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		06/04/21 11:00	06/04/21 15:13	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/04/21 11:00	06/04/21 15:13	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/04/21 11:00	06/04/21 15:13	1
Total TPH	<15.0	U	50.0	15.0	mg/Kg		06/04/21 11:00	06/04/21 15:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/04/21 11:00*	*06/04/21 15:13*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/04/21 11:00*	*06/04/21 15:13*	*1*

Lab Sample ID: LCS 880-3796/2-A
Matrix: Solid
Analysis Batch: 3802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3796

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	925.2		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1084		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-3796/3-A
Matrix: Solid
Analysis Batch: 3802

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3796

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	915.1		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1067		mg/Kg		107	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 880-2724-1 MS
Matrix: Solid
Analysis Batch: 3802

Client Sample ID: STP-1
Prep Type: Total/NA
Prep Batch: 3796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	999	1010		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<14.9	U	999	1175		mg/Kg		118	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 880-2724-1 MSD
Matrix: Solid
Analysis Batch: 3802

Client Sample ID: STP-1
Prep Type: Total/NA
Prep Batch: 3796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	998	904.9		mg/Kg		91	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<14.9	U	998	1070		mg/Kg		107	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

GC VOA

Prep Batch: 3773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2724-1	STP-1	Total/NA	Solid	5035	
MB 880-3773/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-3773/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3773/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 3785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3785/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 3786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2724-1	STP-1	Total/NA	Solid	8021B	3773
MB 880-3773/5-B	Method Blank	Total/NA	Solid	8021B	3773
MB 880-3785/5-A	Method Blank	Total/NA	Solid	8021B	3785
LCS 880-3773/1-B	Lab Control Sample	Total/NA	Solid	8021B	3773
LCSD 880-3773/2-B	Lab Control Sample Dup	Total/NA	Solid	8021B	3773

GC Semi VOA

Prep Batch: 3796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2724-1	STP-1	Total/NA	Solid	8015NM Prep	
MB 880-3796/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3796/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-2724-1 MS	STP-1	Total/NA	Solid	8015NM Prep	
880-2724-1 MSD	STP-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2724-1	STP-1	Total/NA	Solid	8015B NM	3796
MB 880-3796/1-A	Method Blank	Total/NA	Solid	8015B NM	3796
LCS 880-3796/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3796
LCSD 880-3796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3796
880-2724-1 MS	STP-1	Total/NA	Solid	8015B NM	3796
880-2724-1 MSD	STP-1	Total/NA	Solid	8015B NM	3796

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Client Sample ID: STP-1

Date Collected: 06/03/21 14:00
Date Received: 06/04/21 08:45

Lab Sample ID: 880-2724-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3773	06/04/21 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	3786	06/05/21 00:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			3796	06/04/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3802	06/04/21 16:16	AM	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-2724-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-2724-1	STP-1	Solid	06/03/21 14:00	06/04/21 08:45	

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214)
Midland, TX (432) 704-5440 San Antonio, TX (21
EL Paso, TX (915) 585-3443 Lubbock, TX (806)
Hobbs NM (575) 392-7550, Carlsbad NM (575) 988-3199

880-2724 Chain of Custody

lo: 2724

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Project Manager	Beaux Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address	705 W Wadley	Address	
City, State ZIP	MIDLAND TX 79705	City State ZIP	
Phone	432 230 3349	Email	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	South Carlsbad	Turn Around	
Project Number	03B1226001	☑ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name	SHANE DILLER	TAT starts the day received by the lab, if received by 4:30pm	
PO #	03B1226001		

SAMPLE RECEIPT	Temp Blank.	Yes (No)	Wet Ice	(Yes) No
Samples Received Intact:	(Yes) No		Thermometer ID	IR8
Cooler Custody Seals:	Yes No (N/A)		Correction Factor	+0.5
Sample Custody Seals.	Yes No (N/A)		Temperature Reading	5.5
Total Containers:			Corrected Temperature:	6.0

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH 8015M	BTEX 8021B
STP-1	S	6-3-21	1400	-	C	1		X	X

ANALYSIS REQUEST

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6/4/21 0845	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-2724-1
SDG Number: Carlsbad NM

Login Number: 2724
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

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ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-3131-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: South Carlsbad CS

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
6/29/2021 10:39:41 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad CS

Laboratory Job ID: 880-3131-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Qualifiers

GC 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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Job ID: 880-3131-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-3131-1

Receipt
The samples were received on 6/17/2021 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The method blank for preparation batch 880-4254 and analytical batch 880-4283 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Client Sample ID: MW-12S

Date Collected: 06/14/21 15:00
Date Received: 06/17/21 08:30
Sample Depth: 7' - 8'

Lab Sample ID: 880-3131-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00473		0.00199	0.000383	mg/Kg		06/17/21 09:14	06/17/21 13:01	1
Toluene	0.00134	J	0.00199	0.000453	mg/Kg		06/17/21 09:14	06/17/21 13:01	1
Ethylbenzene	0.00881		0.00199	0.000562	mg/Kg		06/17/21 09:14	06/17/21 13:01	1
m-Xylene & p-Xylene	0.0231		0.00398	0.00100	mg/Kg		06/17/21 09:14	06/17/21 13:01	1
o-Xylene	0.000349	J	0.00199	0.000342	mg/Kg		06/17/21 09:14	06/17/21 13:01	1
Xylenes, Total	0.0234		0.00398	0.00100	mg/Kg		06/17/21 09:14	06/17/21 13:01	1
Total BTEX	0.0383		0.00398	0.00100	mg/Kg		06/17/21 09:14	06/17/21 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*06/17/21 09:14*	*06/17/21 13:01*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/17/21 09:14*	*06/17/21 13:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.8	J B	49.8	14.9	mg/Kg		06/17/21 15:28	06/19/21 01:32	1
Diesel Range Organics (Over C10-C28)	554		49.8	14.9	mg/Kg		06/17/21 15:28	06/19/21 01:32	1
Oil Range Organics (Over C28-C36)	439		49.8	14.9	mg/Kg		06/17/21 15:28	06/19/21 01:32	1
Total TPH	1030	B	49.8	14.9	mg/Kg		06/17/21 15:28	06/19/21 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*06/17/21 15:28*	*06/19/21 01:32*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*06/17/21 15:28*	*06/19/21 01:32*	*1*

Client Sample ID: MW-12S

Date Collected: 06/14/21 16:45
Date Received: 06/17/21 08:30
Sample Depth: 20' - 21'

Lab Sample ID: 880-3131-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0178		0.00200	0.000384	mg/Kg		06/17/21 09:14	06/17/21 13:21	1
Toluene	0.0539		0.00200	0.000455	mg/Kg		06/17/21 09:14	06/17/21 13:21	1
Ethylbenzene	0.155		0.00200	0.000564	mg/Kg		06/17/21 09:14	06/17/21 13:21	1
m-Xylene & p-Xylene	0.0625		0.00402	0.00102	mg/Kg		06/17/21 13:40	06/17/21 21:21	1
o-Xylene	0.0232		0.00200	0.000343	mg/Kg		06/17/21 09:14	06/17/21 13:21	1
Xylenes, Total	0.0756		0.00402	0.00102	mg/Kg		06/17/21 13:40	06/17/21 21:21	1
Total BTEX	0.0971		0.00402	0.00102	mg/Kg		06/17/21 13:40	06/17/21 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*385*	*S1+*	*70 - 130*	*06/17/21 09:14*	*06/17/21 13:21*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/17/21 09:14*	*06/17/21 13:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	41.1	J B	50.0	15.0	mg/Kg		06/17/21 15:28	06/19/21 01:45	1
Diesel Range Organics (Over C10-C28)	945		50.0	15.0	mg/Kg		06/17/21 15:28	06/19/21 01:45	1

Eurofins Xenco, Midland

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Client Sample ID: MW-12S

Date Collected: 06/14/21 16:45
Date Received: 06/17/21 08:30
Sample Depth: 20' - 21'

Lab Sample ID: 880-3131-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	549		50.0	15.0	mg/Kg		06/17/21 15:28	06/19/21 01:45	1
Total TPH	1540	B	50.0	15.0	mg/Kg		06/17/21 15:28	06/19/21 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*06/17/21 15:28*	*06/19/21 01:45*	*1*
o-Terphenyl	*128*		*70 - 130*	*06/17/21 15:28*	*06/19/21 01:45*	*1*

Client Sample ID: MW-12S

Date Collected: 06/14/21 16:48
Date Received: 06/17/21 08:30
Sample Depth: 21' - 22'

Lab Sample ID: 880-3131-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0173		0.00200	0.000384	mg/Kg		06/17/21 09:14	06/17/21 13:42	1
Toluene	0.000475	J	0.00200	0.000455	mg/Kg		06/17/21 09:14	06/17/21 13:42	1
Ethylbenzene	0.00237		0.00200	0.000564	mg/Kg		06/17/21 09:14	06/17/21 13:42	1
m-Xylene & p-Xylene	0.0324		0.00399	0.00101	mg/Kg		06/17/21 09:14	06/17/21 13:42	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		06/17/21 09:14	06/17/21 13:42	1
Xylenes, Total	0.0324		0.00399	0.00101	mg/Kg		06/17/21 09:14	06/17/21 13:42	1
Total BTEX	0.0525		0.00399	0.00101	mg/Kg		06/17/21 09:14	06/17/21 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/17/21 09:14*	*06/17/21 13:42*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*06/17/21 09:14*	*06/17/21 13:42*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	228	B	49.9	15.0	mg/Kg		06/17/21 15:28	06/19/21 01:58	1
Diesel Range Organics (Over C10-C28)	3840		49.9	15.0	mg/Kg		06/17/21 15:28	06/19/21 01:58	1
Oil Range Organics (Over C28-C36)	270		49.9	15.0	mg/Kg		06/17/21 15:28	06/19/21 01:58	1
Total TPH	4340	B	49.9	15.0	mg/Kg		06/17/21 15:28	06/19/21 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*52*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 01:58*	*1*
1-Chlorooctane	*36*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 08:51*	*1*
o-Terphenyl	*46*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 01:58*	*1*
o-Terphenyl	*34*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 08:51*	*1*

Client Sample ID: MW-12D

Date Collected: 06/15/21 11:25
Date Received: 06/17/21 08:30
Sample Depth: 28' - 29'

Lab Sample ID: 880-3131-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000425	J	0.00199	0.000383	mg/Kg		06/17/21 09:14	06/17/21 14:02	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Client Sample ID: MW-12D

Date Collected: 06/15/21 11:25
Date Received: 06/17/21 08:30
Sample Depth: 28' - 29'

Lab Sample ID: 880-3131-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**0.00101**	**J**	0.00199	0.000454	mg/Kg		06/17/21 09:14	06/17/21 14:02	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		06/17/21 09:14	06/17/21 14:02	1
m-Xylene & p-Xylene	**0.00141**	**J**	0.00398	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:02	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		06/17/21 09:14	06/17/21 14:02	1
Xylenes, Total	**0.00141**	**J**	0.00398	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:02	1
Total BTEX	**0.00285**	**J**	0.00398	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/17/21 09:14*	*06/17/21 14:02*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/17/21 09:14*	*06/17/21 14:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**144**	**B**	49.9	15.0	mg/Kg		06/17/21 15:28	06/19/21 02:11	1
Diesel Range Organics (Over C10-C28)	**2130**		49.9	15.0	mg/Kg		06/17/21 15:28	06/19/21 02:11	1
Oil Range Organics (Over C28-C36)	**172**		49.9	15.0	mg/Kg		06/17/21 15:28	06/19/21 02:11	1
Total TPH	**2450**	**B**	49.9	15.0	mg/Kg		06/17/21 15:28	06/19/21 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*29*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 02:11*	*1*
1-Chlorooctane	*21*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 09:04*	*1*
o-Terphenyl	*29*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 02:11*	*1*
o-Terphenyl	*20*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 09:04*	*1*

Client Sample ID: MW-13S

Date Collected: 06/15/21 15:45
Date Received: 06/17/21 08:30
Sample Depth: 7' - 8'

Lab Sample ID: 880-3131-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/17/21 09:14	06/17/21 14:23	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/17/21 09:14	06/17/21 14:23	1
Ethylbenzene	**0.00119**	**J**	0.00200	0.000565	mg/Kg		06/17/21 09:14	06/17/21 14:23	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:23	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/17/21 09:14	06/17/21 14:23	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:23	1
Total BTEX	**0.00119**	**J**	0.00400	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/17/21 09:14*	*06/17/21 14:23*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/17/21 09:14*	*06/17/21 14:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**190**	**B**	49.8	14.9	mg/Kg		06/17/21 15:28	06/19/21 02:23	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Client Sample ID: MW-13S

Date Collected: 06/15/21 15:45
Date Received: 06/17/21 08:30
Sample Depth: 7' - 8'

Lab Sample ID: 880-3131-5
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	2790		49.8	14.9	mg/Kg		06/17/21 15:28	06/19/21 02:23	1
Oil Range Organics (Over C28-C36)	223		49.8	14.9	mg/Kg		06/17/21 15:28	06/19/21 02:23	1
Total TPH	3200	B	49.8	14.9	mg/Kg		06/17/21 15:28	06/19/21 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*36*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 02:23*	*1*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 10:17*	*1*
o-Terphenyl	*40*	*S1-*	*70 - 130*	*06/17/21 15:28*	*06/19/21 02:23*	*1*
o-Terphenyl	*70*		*70 - 130*	*06/17/21 15:28*	*06/19/21 10:17*	*1*

Client Sample ID: MW-13S

Date Collected: 06/15/21 16:10
Date Received: 06/17/21 08:30
Sample Depth: 19' - 20'

Lab Sample ID: 880-3131-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		06/17/21 09:14	06/17/21 14:43	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		06/17/21 09:14	06/17/21 14:43	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		06/17/21 09:14	06/17/21 14:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:43	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		06/17/21 09:14	06/17/21 14:43	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:43	1
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/21 09:14	06/17/21 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/17/21 09:14*	*06/17/21 14:43*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/17/21 09:14*	*06/17/21 14:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		06/18/21 10:16	06/19/21 01:56	1
Diesel Range Organics (Over C10-C28)	31.9	J	50.0	15.0	mg/Kg		06/18/21 10:16	06/19/21 01:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/18/21 10:16	06/19/21 01:56	1
Total TPH	31.9	J	50.0	15.0	mg/Kg		06/18/21 10:16	06/19/21 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/18/21 10:16*	*06/19/21 01:56*	*1*
o-Terphenyl	*84*		*70 - 130*	*06/18/21 10:16*	*06/19/21 01:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Client Sample ID: MW-13D

Date Collected: 06/16/21 08:35
Date Received: 06/17/21 08:30
Sample Depth: 29' - 30'

Lab Sample ID: 880-3131-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		06/17/21 09:14	06/17/21 15:03	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/17/21 09:14	06/17/21 15:03	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		06/17/21 09:14	06/17/21 15:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		06/17/21 09:14	06/17/21 15:03	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		06/17/21 09:14	06/17/21 15:03	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/17/21 09:14	06/17/21 15:03	1
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg		06/17/21 09:14	06/17/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*06/17/21 09:14*	*06/17/21 15:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/17/21 09:14*	*06/17/21 15:03*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		06/18/21 10:16	06/19/21 02:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/18/21 10:16	06/19/21 02:17	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/18/21 10:16	06/19/21 02:17	1
Total TPH	<15.0	U	49.9	15.0	mg/Kg		06/18/21 10:16	06/19/21 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*06/18/21 10:16*	*06/19/21 02:17*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/18/21 10:16*	*06/19/21 02:17*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-3131-1	MW-12S	161 S1+	111
880-3131-2	MW-12S	385 S1+	93
880-3131-2 MS	MW-12S	235 S1+	93
880-3131-2 MSD	MW-12S	505 S1+	69 S1-
880-3131-3	MW-12S	115	112
880-3131-4	MW-12D	122	104
880-3131-5	MW-13S	115	106
880-3131-6	MW-13S	131 S1+	102
880-3131-7	MW-13D	129	100
LCS 880-4221/1-A	Lab Control Sample	117	100
LCS 880-4246/1-A	Lab Control Sample	104	93
LCSD 880-4221/2-A	Lab Control Sample Dup	122	101
LCSD 880-4246/2-A	Lab Control Sample Dup	110	96
MB 880-4197/5-A	Method Blank	112	93
MB 880-4221/5-A	Method Blank	105	97
MB 880-4246/5-A	Method Blank	113	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-3131-1	MW-12S	144 S1+	135 S1+
880-3131-2	MW-12S	141 S1+	128
880-3131-3	MW-12S	52 S1-	46 S1-
880-3131-3	MW-12S	36 S1-	34 S1-
880-3131-4	MW-12D	29 S1-	29 S1-
880-3131-4	MW-12D	21 S1-	20 S1-
880-3131-5	MW-13S	36 S1-	40 S1-
880-3131-5	MW-13S	65 S1-	70
880-3131-6	MW-13S	86	84
880-3131-7	MW-13D	84	82
LCS 880-4254/2-A	Lab Control Sample	102	106
LCS 880-4287/2-A	Lab Control Sample	84	77
LCSD 880-4254/3-A	Lab Control Sample Dup	100	104
LCSD 880-4287/3-A	Lab Control Sample Dup	85	77
MB 880-4254/1-A	Method Blank	108	107
MB 880-4287/1-A	Method Blank	88	87

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4197/5-A
Matrix: Solid
Analysis Batch: 4175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4197

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/16/21 13:58	06/17/21 02:17	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/16/21 13:58	06/17/21 02:17	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/16/21 13:58	06/17/21 02:17	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/16/21 13:58	06/17/21 02:17	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/16/21 13:58	06/17/21 02:17	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/16/21 13:58	06/17/21 02:17	1
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg		06/16/21 13:58	06/17/21 02:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/16/21 13:58*	*06/17/21 02:17*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/16/21 13:58*	*06/17/21 02:17*	*1*

Lab Sample ID: MB 880-4221/5-A
Matrix: Solid
Analysis Batch: 4223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4221

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/17/21 09:14	06/17/21 12:39	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/17/21 09:14	06/17/21 12:39	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/17/21 09:14	06/17/21 12:39	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/21 09:14	06/17/21 12:39	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/17/21 09:14	06/17/21 12:39	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/21 09:14	06/17/21 12:39	1
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/21 09:14	06/17/21 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/17/21 09:14*	*06/17/21 12:39*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/17/21 09:14*	*06/17/21 12:39*	*1*

Lab Sample ID: LCS 880-4221/1-A
Matrix: Solid
Analysis Batch: 4223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4221

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07907		mg/Kg		79	70 - 130		
Toluene			0.100	0.08063		mg/Kg		81	70 - 130		
Ethylbenzene			0.100	0.09178		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1995		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1026		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-4221/2-A
Matrix: Solid
Analysis Batch: 4223

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4221

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08102		mg/Kg		81	70 - 130	2	35
Toluene			0.100	0.08263		mg/Kg		83	70 - 130	2	35
Ethylbenzene			0.100	0.09306		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2039		mg/Kg		102	70 - 130	2	35
o-Xylene			0.100	0.1047		mg/Kg		105	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-3131-2 MS
Matrix: Solid
Analysis Batch: 4223

Client Sample ID: MW-12S
Prep Type: Total/NA
Prep Batch: 4221

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*235*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-3131-2 MSD
Matrix: Solid
Analysis Batch: 4223

Client Sample ID: MW-12S
Prep Type: Total/NA
Prep Batch: 4221

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*505*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-4246/5-A
Matrix: Solid
Analysis Batch: 4175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4246

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/17/21 13:40	06/17/21 18:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/17/21 13:40	06/17/21 18:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/17/21 13:40	06/17/21 18:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/21 13:40	06/17/21 18:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/17/21 13:40	06/17/21 18:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/21 13:40	06/17/21 18:49	1
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/21 13:40	06/17/21 18:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/17/21 13:40*	*06/17/21 18:49*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/17/21 13:40*	*06/17/21 18:49*	*1*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-4246/1-A
Matrix: Solid
Analysis Batch: 4175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4246

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09758		mg/Kg		98	70 - 130		
Toluene			0.100	0.1152		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.1167		mg/Kg		117	70 - 130		
m-Xylene & p-Xylene			0.200	0.2442		mg/Kg		122	70 - 130		
o-Xylene			0.100	0.1195		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-4246/2-A
Matrix: Solid
Analysis Batch: 4175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4246

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08239		mg/Kg		82	70 - 130	17	35
Toluene			0.100	0.09601		mg/Kg		96	70 - 130	18	35
Ethylbenzene			0.100	0.1020		mg/Kg		102	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.2093		mg/Kg		105	70 - 130	15	35
o-Xylene			0.100	0.1066		mg/Kg		107	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4254/1-A
Matrix: Solid
Analysis Batch: 4283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4254

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.56	J	50.0	15.0	mg/Kg		06/17/21 15:28	06/18/21 21:06	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/17/21 15:28	06/18/21 21:06	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/17/21 15:28	06/18/21 21:06	1
Total TPH	17.56	J	50.0	15.0	mg/Kg		06/17/21 15:28	06/18/21 21:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*06/17/21 15:28*	*06/18/21 21:06*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/17/21 15:28*	*06/18/21 21:06*	*1*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-4254/2-A
Matrix: Solid
Analysis Batch: 4283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4254

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	948.6		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1068		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Lab Sample ID: LCSD 880-4254/3-A
Matrix: Solid
Analysis Batch: 4283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4254

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	901.2		mg/Kg		90	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1048		mg/Kg		105	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: MB 880-4287/1-A
Matrix: Solid
Analysis Batch: 4278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4287

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		06/18/21 10:16	06/18/21 18:16	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/18/21 10:16	06/18/21 18:16	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/18/21 10:16	06/18/21 18:16	1
Total TPH	<15.0	U	50.0	15.0	mg/Kg		06/18/21 10:16	06/18/21 18:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/18/21 10:16*	*06/18/21 18:16*	*1*
o-Terphenyl	*87*		*70 - 130*	*06/18/21 10:16*	*06/18/21 18:16*	*1*

Lab Sample ID: LCS 880-4287/2-A
Matrix: Solid
Analysis Batch: 4278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	847.6		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	909.1		mg/Kg		91	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-4287/2-A
Matrix: Solid
Analysis Batch: 4278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4287

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: LCSD 880-4287/3-A
Matrix: Solid
Analysis Batch: 4278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4287

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	864.2		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	920.1		mg/Kg		92	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	77		70 - 130

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

GC VOA

Analysis Batch: 4175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3131-2	MW-12S	Total/NA	Solid	8021B	4246
MB 880-4197/5-A	Method Blank	Total/NA	Solid	8021B	4197
MB 880-4246/5-A	Method Blank	Total/NA	Solid	8021B	4246
LCS 880-4246/1-A	Lab Control Sample	Total/NA	Solid	8021B	4246
LCSD 880-4246/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4246

Prep Batch: 4197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4197/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 4221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3131-1	MW-12S	Total/NA	Solid	5035	
880-3131-2	MW-12S	Total/NA	Solid	5035	
880-3131-3	MW-12S	Total/NA	Solid	5035	
880-3131-4	MW-12D	Total/NA	Solid	5035	
880-3131-5	MW-13S	Total/NA	Solid	5035	
880-3131-6	MW-13S	Total/NA	Solid	5035	
880-3131-7	MW-13D	Total/NA	Solid	5035	
MB 880-4221/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4221/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4221/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-3131-2 MS	MW-12S	Total/NA	Solid	5035	
880-3131-2 MSD	MW-12S	Total/NA	Solid	5035	

Analysis Batch: 4223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3131-1	MW-12S	Total/NA	Solid	8021B	4221
880-3131-2	MW-12S	Total/NA	Solid	8021B	4221
880-3131-3	MW-12S	Total/NA	Solid	8021B	4221
880-3131-4	MW-12D	Total/NA	Solid	8021B	4221
880-3131-5	MW-13S	Total/NA	Solid	8021B	4221
880-3131-6	MW-13S	Total/NA	Solid	8021B	4221
880-3131-7	MW-13D	Total/NA	Solid	8021B	4221
MB 880-4221/5-A	Method Blank	Total/NA	Solid	8021B	4221
LCS 880-4221/1-A	Lab Control Sample	Total/NA	Solid	8021B	4221
LCSD 880-4221/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4221
880-3131-2 MS	MW-12S	Total/NA	Solid	8021B	4221
880-3131-2 MSD	MW-12S	Total/NA	Solid	8021B	4221

Prep Batch: 4246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3131-2	MW-12S	Total/NA	Solid	5035	
MB 880-4246/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4246/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4246/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

GC Semi VOA

Prep Batch: 4254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3131-1	MW-12S	Total/NA	Solid	8015NM Prep	
880-3131-2	MW-12S	Total/NA	Solid	8015NM Prep	
880-3131-3	MW-12S	Total/NA	Solid	8015NM Prep	
880-3131-4	MW-12D	Total/NA	Solid	8015NM Prep	
880-3131-5	MW-13S	Total/NA	Solid	8015NM Prep	
MB 880-4254/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4254/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4254/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3131-6	MW-13S	Total/NA	Solid	8015B NM	4287
880-3131-7	MW-13D	Total/NA	Solid	8015B NM	4287
MB 880-4287/1-A	Method Blank	Total/NA	Solid	8015B NM	4287
LCS 880-4287/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4287
LCSD 880-4287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4287

Analysis Batch: 4283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3131-1	MW-12S	Total/NA	Solid	8015B NM	4254
880-3131-2	MW-12S	Total/NA	Solid	8015B NM	4254
880-3131-3	MW-12S	Total/NA	Solid	8015B NM	4254
880-3131-3	MW-12S	Total/NA	Solid	8015B NM	4254
880-3131-4	MW-12D	Total/NA	Solid	8015B NM	4254
880-3131-4	MW-12D	Total/NA	Solid	8015B NM	4254
880-3131-5	MW-13S	Total/NA	Solid	8015B NM	4254
880-3131-5	MW-13S	Total/NA	Solid	8015B NM	4254
MB 880-4254/1-A	Method Blank	Total/NA	Solid	8015B NM	4254
LCS 880-4254/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4254
LCSD 880-4254/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4254

Prep Batch: 4287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3131-6	MW-13S	Total/NA	Solid	8015NM Prep	
880-3131-7	MW-13D	Total/NA	Solid	8015NM Prep	
MB 880-4287/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4287/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Client Sample ID: MW-12S
Date Collected: 06/14/21 15:00
Date Received: 06/17/21 08:30

Lab Sample ID: 880-3131-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4221	06/17/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	4223	06/17/21 13:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			4254	06/17/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4283	06/19/21 01:32	AJ	XEN MID

Client Sample ID: MW-12S
Date Collected: 06/14/21 16:45
Date Received: 06/17/21 08:30

Lab Sample ID: 880-3131-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4246	06/17/21 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	4175	06/17/21 21:21	MR	XEN MID
Total/NA	Prep	5035			4221	06/17/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	4223	06/17/21 13:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			4254	06/17/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4283	06/19/21 01:45	AJ	XEN MID

Client Sample ID: MW-12S
Date Collected: 06/14/21 16:48
Date Received: 06/17/21 08:30

Lab Sample ID: 880-3131-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4221	06/17/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	4223	06/17/21 13:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			4254	06/17/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4283	06/19/21 01:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			4254	06/17/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4283	06/19/21 08:51	AJ	XEN MID

Client Sample ID: MW-12D
Date Collected: 06/15/21 11:25
Date Received: 06/17/21 08:30

Lab Sample ID: 880-3131-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4221	06/17/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	4223	06/17/21 14:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			4254	06/17/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4283	06/19/21 02:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			4254	06/17/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4283	06/19/21 09:04	AJ	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Client Sample ID: MW-13S
Date Collected: 06/15/21 15:45
Date Received: 06/17/21 08:30

Lab Sample ID: 880-3131-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4221	06/17/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	4223	06/17/21 14:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			4254	06/17/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4283	06/19/21 02:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			4254	06/17/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4283	06/19/21 10:17	AJ	XEN MID

Client Sample ID: MW-13S
Date Collected: 06/15/21 16:10
Date Received: 06/17/21 08:30

Lab Sample ID: 880-3131-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4221	06/17/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	4223	06/17/21 14:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			4287	06/18/21 10:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4278	06/19/21 01:56	AJ	XEN MID

Client Sample ID: MW-13D
Date Collected: 06/16/21 08:35
Date Received: 06/17/21 08:30

Lab Sample ID: 880-3131-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4221	06/17/21 09:14	KL	XEN MID
Total/NA	Analysis	8021B		1	4223	06/17/21 15:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			4287	06/18/21 10:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4278	06/19/21 02:17	AJ	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-3131-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-3131-1	MW-12S	Solid	06/14/21 15:00	06/17/21 08:30	7' - 8'
880-3131-2	MW-12S	Solid	06/14/21 16:45	06/17/21 08:30	20' - 21'
880-3131-3	MW-12S	Solid	06/14/21 16:48	06/17/21 08:30	21' - 22'
880-3131-4	MW-12D	Solid	06/15/21 11:25	06/17/21 08:30	28' - 29'
880-3131-5	MW-13S	Solid	06/15/21 15:45	06/17/21 08:30	7' - 8'
880-3131-6	MW-13S	Solid	06/15/21 16:10	06/17/21 08:30	19' - 20'
880-3131-7	MW-13D	Solid	06/16/21 08:35	06/17/21 08:30	29' - 30'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0.
Midland, TX (432) 704-5440, San Antonio, TX (210) 509
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-12
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3

880-3131 Chain of Custody

880-3131

www.xenco.com Page 1 of 1

Project Manager:	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	705 W Wadley Ave, Ste. 240	Address	
City, State ZIP:	Midland, TX 79705	City State ZIP:	
Phone:	210-219-8858	Email	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad CS	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad, NM	Due Date	
Sampler's Name	Beaux Jennings	TAT starts the day received by the lab, if received by 4.30pm	
PO #	03B1226001		

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals.	(Yes) No N/A	Correction Factor:	+0.5	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading	5.3	
Total Containers.		Corrected Temperature:	5.0	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX SW-846 #8021B	Parameters: TPH #8015M
MW-12S	S	6/14/21	1500	7'-8'	G	1	X	X
MW-12S	|	6/14/21	1645	20'-21'	G	1	|	|
MW-12S	|	6/14/21	1648	21'-22'	G	1	|	|
MW-12D	|	6/15/21	1125	28'-29'	G	1	|	|
MW-13S	|	6/15/21	1545	7'-8'	G	1	|	|
MW-13S	|	6/15/21	1610	19'-20'	G	1	|	|
MW-13D	S	6/16/21	0835	28'-30'	G	6	X	X
NEE 6/16/21								

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

- NM Samples

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6/17/21 0830	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM
6/29/2021
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-3131-1
SDG Number: Carlsbad NM

Login Number: 3131
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
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	
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").	N/A	

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ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-3565-1
Laboratory Sample Delivery Group: Carlsbad, NM
Client Project/Site: South Carlsbad

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

Chad A. Bechtold

Authorized for release by:
7/6/2021 4:51:18 PM
Chad Bechtold, Project Manager
(813)690-3563
chad.bechtold@eurofinset.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad

Laboratory Job ID: 880-3565-1
SDG: Carlsbad, NM

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Released to Imaging: 7/16/2024 3:56:32 PM

Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Qualifiers

GC 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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Job ID: 880-3565-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-3565-1

Receipt
The samples were received on 6/30/2021 8:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-4774 and analytical batch 880-4777 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Client Sample ID: MW-12D

Date Collected: 06/29/21 13:55
Date Received: 06/30/21 08:07

Lab Sample ID: 880-3565-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.252**		0.00200	0.000408	mg/L			06/30/21 21:20	1
Toluene	**0.00267**		0.00200	0.000367	mg/L			06/30/21 21:20	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/30/21 21:20	1
m-Xylene & p-Xylene	**0.0103**		0.00400	0.000629	mg/L			06/30/21 21:20	1
o-Xylene	**0.00321**		0.00200	0.000642	mg/L			06/30/21 21:20	1
Xylenes, Total	**0.0135**		0.00400	0.000642	mg/L			06/30/21 21:20	1
Total BTEX	**0.268**		0.00400	0.000657	mg/L			06/30/21 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*06/30/21 21:20*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*06/30/21 21:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.906	U	4.59	0.906	mg/L		06/30/21 11:05	06/30/21 15:03	1
Diesel Range Organics (Over C10-C28)	**1.11**	**J**	4.59	0.906	mg/L		06/30/21 11:05	06/30/21 15:03	1
Oil Range Organics (Over C28-C36)	<0.875	U	4.59	0.875	mg/L		06/30/21 11:05	06/30/21 15:03	1
Total TPH	**1.11**	**J**	4.59	0.906	mg/L		06/30/21 11:05	06/30/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/30/21 11:05*	*06/30/21 15:03*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/30/21 11:05*	*06/30/21 15:03*	*1*

Client Sample ID: MW-12S

Date Collected: 06/29/21 15:20
Date Received: 06/30/21 08:07

Lab Sample ID: 880-3565-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.527**		0.0200	0.00408	mg/L			07/06/21 13:40	10
Toluene	**0.115**		0.00200	0.000367	mg/L			06/30/21 21:46	1
Ethylbenzene	**0.125**		0.00200	0.000657	mg/L			06/30/21 21:46	1
m-Xylene & p-Xylene	**0.558**		0.00400	0.000629	mg/L			06/30/21 21:46	1
o-Xylene	**0.0674**		0.00200	0.000642	mg/L			06/30/21 21:46	1
Xylenes, Total	**0.625**		0.00400	0.000642	mg/L			06/30/21 21:46	1
Total BTEX	**1.42**		0.0400	0.00657	mg/L			07/06/21 13:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*06/30/21 21:46*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*06/30/21 21:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**4.00**	**J**	4.45	0.880	mg/L		06/30/21 11:05	06/30/21 15:24	1
Diesel Range Organics (Over C10-C28)	**2.12**	**J**	4.45	0.880	mg/L		06/30/21 11:05	06/30/21 15:24	1
Oil Range Organics (Over C28-C36)	<0.849	U	4.45	0.849	mg/L		06/30/21 11:05	06/30/21 15:24	1
Total TPH	**6.12**		4.45	0.880	mg/L		06/30/21 11:05	06/30/21 15:24	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Client Sample ID: MW-12S

Lab Sample ID: 880-3565-2
Matrix: Water
Date Collected: 06/29/21 15:20
Date Received: 06/30/21 08:07

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	06/30/21 11:05	06/30/21 15:24	1
o-Terphenyl	105		70 - 130	06/30/21 11:05	06/30/21 15:24	1

Client Sample ID: MW-13D

Lab Sample ID: 880-3565-3
Matrix: Water
Date Collected: 06/29/21 16:55
Date Received: 06/30/21 08:07

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00446		0.00200	0.000408	mg/L			06/30/21 22:11	1
Toluene	0.00142	J	0.00200	0.000367	mg/L			06/30/21 22:11	1
Ethylbenzene	0.00123	J	0.00200	0.000657	mg/L			06/30/21 22:11	1
m-Xylene & p-Xylene	0.00574		0.00400	0.000629	mg/L			06/30/21 22:11	1
o-Xylene	0.000856	J	0.00200	0.000642	mg/L			06/30/21 22:11	1
Xylenes, Total	0.00660		0.00400	0.000642	mg/L			06/30/21 22:11	1
Total BTEX	0.0137		0.00400	0.000657	mg/L			06/30/21 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		06/30/21 22:11	1
1,4-Difluorobenzene (Surr)	95		70 - 130		06/30/21 22:11	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.869	U F1	4.40	0.869	mg/L		06/30/21 11:05	06/30/21 14:00	1
Diesel Range Organics (Over C10-C28)	<0.869	U	4.40	0.869	mg/L		06/30/21 11:05	06/30/21 14:00	1
Oil Range Organics (Over C28-C36)	<0.839	U	4.40	0.839	mg/L		06/30/21 11:05	06/30/21 14:00	1
Total TPH	<0.869	U F1	4.40	0.869	mg/L		06/30/21 11:05	06/30/21 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	06/30/21 11:05	06/30/21 14:00	1
o-Terphenyl	118		70 - 130	06/30/21 11:05	06/30/21 14:00	1

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-3565-1	MW-12D	102	92
880-3565-2	MW-12S	95	91
880-3565-3	MW-13D	98	95
LCS 880-4770/3	Lab Control Sample	104	87
LCS 880-4897/3	Lab Control Sample	83	96
LCSD 880-4770/4	Lab Control Sample Dup	85	99
LCSD 880-4897/4	Lab Control Sample Dup	84	93
MB 880-4770/8	Method Blank	60 S1-	81
MB 880-4897/8	Method Blank	56 S1-	83

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-3565-1	MW-12D	90	109
880-3565-2	MW-12S	90	105
880-3565-3	MW-13D	90	118
880-3565-3 MS	MW-13D	76	88
880-3565-3 MSD	MW-13D	75	86
LCS 880-4774/2-A	Lab Control Sample	81	91
LCSD 880-4774/3-A	Lab Control Sample Dup	84	94
MB 880-4774/1-A	Method Blank	78	95

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4770/8
Matrix: Water
Analysis Batch: 4770

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/30/21 15:26	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/30/21 15:26	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/30/21 15:26	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/30/21 15:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/30/21 15:26	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/30/21 15:26	1
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/30/21 15:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*		*06/30/21 15:26*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*		*06/30/21 15:26*	*1*

Lab Sample ID: LCS 880-4770/3
Matrix: Water
Analysis Batch: 4770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08942		mg/L		89	70 - 130		
Toluene			0.100	0.09144		mg/L		91	70 - 130		
Ethylbenzene			0.100	0.08566		mg/L		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1780		mg/L		89	70 - 130		
o-Xylene			0.100	0.08991		mg/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-4770/4
Matrix: Water
Analysis Batch: 4770

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
Benzene			0.100	0.09448		mg/L		94	70 - 130	6	20
Toluene			0.100	0.1015		mg/L		102	70 - 130	10	20
Ethylbenzene			0.100	0.08778		mg/L		88	70 - 130	2	20
m-Xylene & p-Xylene			0.200	0.1842		mg/L		92	70 - 130	3	20
o-Xylene			0.100	0.09288		mg/L		93	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-4897/8
Matrix: Water
Analysis Batch: 4897

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			07/06/21 12:25	1

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-4897/8
Matrix: Water
Analysis Batch: 4897

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.000367	U	0.00200	0.000367	mg/L			07/06/21 12:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			07/06/21 12:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			07/06/21 12:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			07/06/21 12:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			07/06/21 12:25	1
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			07/06/21 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*56*	*S1-*	*70 - 130*		*07/06/21 12:25*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*		*07/06/21 12:25*	*1*

Lab Sample ID: LCS 880-4897/3
Matrix: Water
Analysis Batch: 4897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07925		mg/L		79	70 - 130		
Toluene			0.100	0.08918		mg/L		89	70 - 130		
Ethylbenzene			0.100	0.07651		mg/L		77	70 - 130		
m-Xylene & p-Xylene			0.200	0.1592		mg/L		80	70 - 130		
o-Xylene			0.100	0.08103		mg/L		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-4897/4
Matrix: Water
Analysis Batch: 4897

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
Benzene			0.100	0.08270		mg/L		83	70 - 130	4	20
Toluene			0.100	0.09996		mg/L		100	70 - 130	11	20
Ethylbenzene			0.100	0.08453		mg/L		85	70 - 130	10	20
m-Xylene & p-Xylene			0.200	0.1759		mg/L		88	70 - 130	10	20
o-Xylene			0.100	0.08872		mg/L		89	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4774/1-A
Matrix: Water
Analysis Batch: 4777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4774

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		06/30/21 11:05	06/30/21 12:57	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		06/30/21 11:05	06/30/21 12:57	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		06/30/21 11:05	06/30/21 12:57	1
Total TPH	<0.988	U	5.00	0.988	mg/L		06/30/21 11:05	06/30/21 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/30/21 11:05*	*06/30/21 12:57*	*1*
o-Terphenyl	*95*		*70 - 130*	*06/30/21 11:05*	*06/30/21 12:57*	*1*

Lab Sample ID: LCS 880-4774/2-A
Matrix: Water
Analysis Batch: 4777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			100	77.04		mg/L		77	75 - 125		
Diesel Range Organics (Over C10-C28)			100	78.15		mg/L		78	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-4774/3-A
Matrix: Water
Analysis Batch: 4777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4774

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			100	83.52		mg/L		84	75 - 125	8	20
Diesel Range Organics (Over C10-C28)			100	81.69		mg/L		82	75 - 125	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-3565-3 MS
Matrix: Water
Analysis Batch: 4777

Client Sample ID: MW-13D
Prep Type: Total/NA
Prep Batch: 4774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<0.869	U F1	92.9	64.06	F1	mg/L		69	75 - 125		
Diesel Range Organics (Over C10-C28)	<0.869	U	92.9	72.55		mg/L		78	75 - 125		

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-3565-3 MS
Matrix: Water
Analysis Batch: 4777

Client Sample ID: MW-13D
Prep Type: Total/NA
Prep Batch: 4774

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-3565-3 MSD
Matrix: Water
Analysis Batch: 4777

Client Sample ID: MW-13D
Prep Type: Total/NA
Prep Batch: 4774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.869	U F1	92.9	63.57	F1	mg/L		68	75 - 125	1	20
Diesel Range Organics (Over C10-C28)	<0.869	U	92.9	71.84		mg/L		77	75 - 125	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	86		70 - 130

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

GC VOA

Analysis Batch: 4770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3565-1	MW-12D	Total/NA	Water	8021B	
880-3565-2	MW-12S	Total/NA	Water	8021B	
880-3565-3	MW-13D	Total/NA	Water	8021B	
MB 880-4770/8	Method Blank	Total/NA	Water	8021B	
LCS 880-4770/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4770/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 4897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3565-2	MW-12S	Total/NA	Water	8021B	
MB 880-4897/8	Method Blank	Total/NA	Water	8021B	
LCS 880-4897/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4897/4	Lab Control Sample Dup	Total/NA	Water	8021B	

GC Semi VOA

Prep Batch: 4774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3565-1	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-3565-2	MW-12S	Total/NA	Water	8015NM Aq Prep	
880-3565-3	MW-13D	Total/NA	Water	8015NM Aq Prep	
MB 880-4774/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-4774/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-4774/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-3565-3 MS	MW-13D	Total/NA	Water	8015NM Aq Prep	
880-3565-3 MSD	MW-13D	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 4777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3565-1	MW-12D	Total/NA	Water	8015B NM	4774
880-3565-2	MW-12S	Total/NA	Water	8015B NM	4774
880-3565-3	MW-13D	Total/NA	Water	8015B NM	4774
MB 880-4774/1-A	Method Blank	Total/NA	Water	8015B NM	4774
LCS 880-4774/2-A	Lab Control Sample	Total/NA	Water	8015B NM	4774
LCSD 880-4774/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	4774
880-3565-3 MS	MW-13D	Total/NA	Water	8015B NM	4774
880-3565-3 MSD	MW-13D	Total/NA	Water	8015B NM	4774

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Client Sample ID: MW-12D
Lab Sample ID: 880-3565-1
Date Collected: 06/29/21 13:55
Matrix: Water
Date Received: 06/30/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	4770	06/30/21 21:20	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			4774	06/30/21 11:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4777	06/30/21 15:03	AJ	XEN MID

Client Sample ID: MW-12S
Lab Sample ID: 880-3565-2
Date Collected: 06/29/21 15:20
Matrix: Water
Date Received: 06/30/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	4770	06/30/21 21:46	MR	XEN MID
Total/NA	Analysis	8021B		10	4897	07/06/21 13:40	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			4774	06/30/21 11:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4777	06/30/21 15:24	AJ	XEN MID

Client Sample ID: MW-13D
Lab Sample ID: 880-3565-3
Date Collected: 06/29/21 16:55
Matrix: Water
Date Received: 06/30/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	4770	06/30/21 22:11	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			4774	06/30/21 11:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4777	06/30/21 14:00	AJ	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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
8015B NM	8015NM Aq Prep	Water	Total TPH
8021B		Water	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5030B	Purge and Trap	SW846	XEN MID
8015NM Aq Prep	Microextraction	SW846	XEN MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-3565-1
SDG: Carlsbad, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-3565-1	MW-12D	Water	06/29/21 13:55	06/30/21 08:07	
880-3565-2	MW-12S	Water	06/29/21 15:20	06/30/21 08:07	
880-3565-3	MW-13D	Water	06/29/21 16:55	06/30/21 08:07	

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Chain of Custod

Houston, TX (281) 240-4200, Dallas TX (214
Midland, TX (432) 704-5440 San Antonio, TX (2
EL Paso, TX (915) 585-3443, Lubbock, TX (806
Hobbs NM (575) 392-7550 Carlsbad, NM (575,

880-3565 Chain of Custody

No: 880-3565

www.xenco.com Page 1 of 1

Project Manager:	Brent Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name:	
Address:	705 W. Wadley	Address	
City, State ZIP:	MIDLAND TX 79705	City State ZIP	
Phone:	432.230.3344	Email	

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	South Carlsbad	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name:	Shane D. Iler	TAT starts the day received by the lab, if received by 4.30pm	
PO #	03B1226001		

SAMPLE RECEIPT	Temp Blank.	Yes No	Wet Ice	Yes No
Samples Received Intact:	(Yes) No	Thermometer ID		IR8
Cooler Custody Seals.	(Yes) No N/A	Correction Factor:		+0.5
Sample Custody Seals.	Yes No (N/A)	Temperature Reading		5.5
Total Containers:		Corrected Temperature		6.0

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL. HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX 8021B	Sample Comments
MW-12D	GW	6-29	1355	-	G	5		X	X	
MW-12S	GW	6-29	1520	-	G	5		X	X	
MW-13-D	GW	6-29	1655	-	G	5		X	X	

6-29-21 1655
NPK 6-30-21 0700

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-3565-1
SDG Number: Carlsbad, NM

Login Number: 3565
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

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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ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-5258-1
Laboratory Sample Delivery Group: Carlsbad, NM
Client Project/Site: South Carlsbad

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
8/26/2021 3:35:31 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad

Laboratory Job ID: 880-5258-1
SDG: Carlsbad, NM

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Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low 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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi 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.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Job ID: 880-5258-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-5258-1

Receipt
The samples were received on 8/19/2021 8:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C

Receipt Exceptions
One or more containers for the following samples were received broken or leaking: 880-5258-E MW-3 (880-5258-1), MW-4 (880-5258-2), MW-5 (880-5258-3), MW-6 (880-5258-4), MW-7 (880-5258-5), MW-8 (880-5258-6), MW-9 (880-5258-7), MW-10 (880-5258-8), MW-11S (880-5258-9), MW-11D (880-5258-10), MW-12S (880-5258-11), MW-12D (880-5258-12) and MW-13D (880-5258-13).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-6774 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-11S (880-5258-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-6774 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-6879/8). Evidence of matrix interferences is not obvious.

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.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-3

Date Collected: 08/17/21 15:15
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			08/20/21 00:36	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			08/20/21 00:36	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 00:36	1
m-Xylene & p-Xylene	**0.000880**	**J *- *1**	0.00400	0.000629	mg/L			08/20/21 00:36	1
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 00:36	1
Xylenes, Total	**0.000880**	**J *- *1**	0.00400	0.000642	mg/L			08/20/21 00:36	1
Total BTEX	**0.000880**	**J *- *1**	0.00400	0.000657	mg/L			08/20/21 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/20/21 00:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*08/20/21 00:36*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.938	U	4.75	0.938	mg/L		08/24/21 16:44	08/25/21 03:03	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938	mg/L		08/24/21 16:44	08/25/21 03:03	1
OII Range Organics (Over C28-C36)	<0.905	U	4.75	0.905	mg/L		08/24/21 16:44	08/25/21 03:03	1
Total TPH	<0.938	U	4.75	0.938	mg/L		08/24/21 16:44	08/25/21 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 135*	*08/24/21 16:44*	*08/25/21 03:03*	*1*
o-Terphenyl	*93*		*70 - 135*	*08/24/21 16:44*	*08/25/21 03:03*	*1*

Client Sample ID: MW-4

Date Collected: 08/17/21 14:40
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			08/20/21 00:56	1
Toluene	**0.00142**	**J *- *1**	0.00200	0.000367	mg/L			08/20/21 00:56	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 00:56	1
m-Xylene & p-Xylene	<0.000629	U *- *1	0.00400	0.000629	mg/L			08/20/21 00:56	1
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 00:56	1
Xylenes, Total	<0.000642	U *- *1	0.00400	0.000642	mg/L			08/20/21 00:56	1
Total BTEX	**0.00142**	**J *- *1**	0.00400	0.000657	mg/L			08/20/21 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/20/21 00:56*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*		*08/20/21 00:56*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.944	U	4.78	0.944	mg/L		08/24/21 16:44	08/25/21 03:22	1
Diesel Range Organics (Over C10-C28)	<0.944	U	4.78	0.944	mg/L		08/24/21 16:44	08/25/21 03:22	1
OII Range Organics (Over C28-C36)	<0.911	U	4.78	0.911	mg/L		08/24/21 16:44	08/25/21 03:22	1
Total TPH	<0.944	U	4.78	0.944	mg/L		08/24/21 16:44	08/25/21 03:22	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-4

Date Collected: 08/17/21 14:40
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 135	08/24/21 16:44	08/25/21 03:22	1
o-Terphenyl	94		70 - 135	08/24/21 16:44	08/25/21 03:22	1

Client Sample ID: MW-5

Date Collected: 08/17/21 17:40
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			08/20/21 02:46	1
Toluene	**0.000530**	**J *- *1**	0.00200	0.000367	mg/L			08/20/21 02:46	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 02:46	1
m-Xylene & p-Xylene	<0.000629	U *- *1	0.00400	0.000629	mg/L			08/20/21 02:46	1
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 02:46	1
Xylenes, Total	<0.000642	U *- *1	0.00400	0.000642	mg/L			08/20/21 02:46	1
Total BTEX	<0.000657	U *- *1	0.00400	0.000657	mg/L			08/20/21 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130		08/20/21 02:46	1
1,4-Difluorobenzene (Surr)	96		70 - 130		08/20/21 02:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.926	U	4.69	0.926	mg/L		08/24/21 17:45	08/25/21 03:40	1
Diesel Range Organics (Over C10-C28)	<0.926	U	4.69	0.926	mg/L		08/24/21 17:45	08/25/21 03:40	1
OII Range Organics (Over C28-C36)	<0.894	U	4.69	0.894	mg/L		08/24/21 17:45	08/25/21 03:40	1
Total TPH	<0.926	U	4.69	0.926	mg/L		08/24/21 17:45	08/25/21 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	08/24/21 17:45	08/25/21 03:40	1
o-Terphenyl	101		70 - 135	08/24/21 17:45	08/25/21 03:40	1

Client Sample ID: MW-6

Date Collected: 08/17/21 17:00
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			08/20/21 03:06	1
Toluene	**0.000396**	**J *- *1**	0.00200	0.000367	mg/L			08/20/21 03:06	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 03:06	1
m-Xylene & p-Xylene	<0.000629	U *- *1	0.00400	0.000629	mg/L			08/20/21 03:06	1
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 03:06	1
Xylenes, Total	<0.000642	U *- *1	0.00400	0.000642	mg/L			08/20/21 03:06	1
Total BTEX	<0.000657	U *- *1	0.00400	0.000657	mg/L			08/20/21 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		08/20/21 03:06	1
1,4-Difluorobenzene (Surr)	101		70 - 130		08/20/21 03:06	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-6

Date Collected: 08/17/21 17:00
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-4
Matrix: Water

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.923	U	4.67	0.923	mg/L		08/24/21 17:45	08/25/21 03:58	1
Diesel Range Organics (Over C10-C28)	<0.923	U	4.67	0.923	mg/L		08/24/21 17:45	08/25/21 03:58	1
OII Range Organics (Over C28-C36)	<0.891	U	4.67	0.891	mg/L		08/24/21 17:45	08/25/21 03:58	1
Total TPH	<0.923	U	4.67	0.923	mg/L		08/24/21 17:45	08/25/21 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 135*	*08/24/21 17:45*	*08/25/21 03:58*	*1*
o-Terphenyl	*101*		*70 - 135*	*08/24/21 17:45*	*08/25/21 03:58*	*1*

Client Sample ID: MW-7

Date Collected: 08/17/21 16:25
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-5
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			08/20/21 03:26	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			08/20/21 03:26	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 03:26	1
m-Xylene & p-Xylene	<0.000629	U *- *1	0.00400	0.000629	mg/L			08/20/21 03:26	1
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 03:26	1
Xylenes, Total	<0.000642	U *- *1	0.00400	0.000642	mg/L			08/20/21 03:26	1
Total BTEX	<0.000657	U *- *1	0.00400	0.000657	mg/L			08/20/21 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/20/21 03:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*08/20/21 03:26*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.947	U	4.79	0.947	mg/L		08/24/21 17:45	08/25/21 04:16	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947	mg/L		08/24/21 17:45	08/25/21 04:16	1
OII Range Organics (Over C28-C36)	<0.914	U	4.79	0.914	mg/L		08/24/21 17:45	08/25/21 04:16	1
Total TPH	<0.947	U	4.79	0.947	mg/L		08/24/21 17:45	08/25/21 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 135*	*08/24/21 17:45*	*08/25/21 04:16*	*1*
o-Terphenyl	*104*		*70 - 135*	*08/24/21 17:45*	*08/25/21 04:16*	*1*

Client Sample ID: MW-8

Date Collected: 08/17/21 15:55
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			08/20/21 03:47	1
Toluene	**0.000570**	**J *- *1**	0.00200	0.000367	mg/L			08/20/21 03:47	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 03:47	1
m-Xylene & p-Xylene	<0.000629	U *- *1	0.00400	0.000629	mg/L			08/20/21 03:47	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-8

Date Collected: 08/17/21 15:55
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 03:47	1
Xylenes, Total	<0.000642	U *- *1	0.00400	0.000642	mg/L			08/20/21 03:47	1
Total BTEX	<0.000657	U *- *1	0.00400	0.000657	mg/L			08/20/21 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*08/20/21 03:47*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*08/20/21 03:47*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.920	U	4.66	0.920	mg/L		08/24/21 17:45	08/25/21 04:35	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920	mg/L		08/24/21 17:45	08/25/21 04:35	1
OII Range Organics (Over C28-C36)	<0.888	U	4.66	0.888	mg/L		08/24/21 17:45	08/25/21 04:35	1
Total TPH	<0.920	U	4.66	0.920	mg/L		08/24/21 17:45	08/25/21 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 135*	*08/24/21 17:45*	*08/25/21 04:35*	*1*
o-Terphenyl	*96*		*70 - 135*	*08/24/21 17:45*	*08/25/21 04:35*	*1*

Client Sample ID: MW-9

Date Collected: 08/17/21 13:55
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-7
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0845**	***- *1**	0.00200	0.000408	mg/L			08/20/21 04:07	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			08/20/21 04:07	1
Ethylbenzene	**0.000880**	**J *- *1**	0.00200	0.000657	mg/L			08/20/21 04:07	1
m-Xylene & p-Xylene	**0.000976**	**J *- *1**	0.00400	0.000629	mg/L			08/20/21 04:07	1
o-Xylene	**0.000665**	**J *- *1**	0.00200	0.000642	mg/L			08/20/21 04:07	1
Xylenes, Total	**0.00164**	**J *- *1**	0.00400	0.000642	mg/L			08/20/21 04:07	1
Total BTEX	**0.0870**	***- *1**	0.00400	0.000657	mg/L			08/20/21 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/20/21 04:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*08/20/21 04:07*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.932	U	4.72	0.932	mg/L		08/24/21 17:45	08/25/21 04:53	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932	mg/L		08/24/21 17:45	08/25/21 04:53	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		08/24/21 17:45	08/25/21 04:53	1
Total TPH	<0.932	U	4.72	0.932	mg/L		08/24/21 17:45	08/25/21 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 135*	*08/24/21 17:45*	*08/25/21 04:53*	*1*
o-Terphenyl	*103*		*70 - 135*	*08/24/21 17:45*	*08/25/21 04:53*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-10

Date Collected: 08/18/21 09:10
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-8
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00115**	**J *- *1**	0.00200	0.000408	mg/L			08/20/21 06:37	1
Toluene	**0.000399**	**J *- *1**	0.00200	0.000367	mg/L			08/20/21 06:37	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 06:37	1
m-Xylene & p-Xylene	<0.000629	U *- *1	0.00400	0.000629	mg/L			08/20/21 06:37	1
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 06:37	1
Xylenes, Total	<0.000642	U *- *1	0.00400	0.000642	mg/L			08/20/21 06:37	1
Total BTEX	**0.00155**	**J *- *1**	0.00400	0.000657	mg/L			08/20/21 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/20/21 06:37*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*08/20/21 06:37*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		08/24/21 17:45	08/25/21 05:11	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		08/24/21 17:45	08/25/21 05:11	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		08/24/21 17:45	08/25/21 05:11	1
Total TPH	<0.941	U	4.76	0.941	mg/L		08/24/21 17:45	08/25/21 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 135*	*08/24/21 17:45*	*08/25/21 05:11*	*1*
o-Terphenyl	*92*		*70 - 135*	*08/24/21 17:45*	*08/25/21 05:11*	*1*

Client Sample ID: MW-11S

Date Collected: 08/18/21 10:50
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-9
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.908**		0.0400	0.00816	mg/L			08/21/21 18:28	20
Toluene	**0.0466**	***- *1**	0.00200	0.000367	mg/L			08/20/21 08:19	1
Ethylbenzene	**0.198**	***- *1**	0.00200	0.000657	mg/L			08/20/21 08:19	1
m-Xylene & p-Xylene	**0.112**	***- *1**	0.00400	0.000629	mg/L			08/20/21 08:19	1
o-Xylene	**0.0108**	***- *1**	0.00200	0.000642	mg/L			08/20/21 08:19	1
Xylenes, Total	**0.123**	***- *1**	0.00400	0.000642	mg/L			08/20/21 08:19	1
Total BTEX	**1.39**		0.0800	0.0131	mg/L			08/21/21 18:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*		*08/20/21 08:19*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*08/20/21 08:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**4.99**		4.72	0.932	mg/L		08/24/21 17:45	08/25/21 12:17	1
Diesel Range Organics (Over C10-C28)	**6.53**		4.72	0.932	mg/L		08/24/21 17:45	08/25/21 12:17	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		08/24/21 17:45	08/25/21 12:17	1
Total TPH	**11.5**		4.72	0.932	mg/L		08/24/21 17:45	08/25/21 12:17	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-11S
Date Collected: 08/18/21 10:50
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 135	08/24/21 17:45	08/25/21 12:17	1
o-Terphenyl	94		70 - 135	08/24/21 17:45	08/25/21 12:17	1

Client Sample ID: MW-11D
Date Collected: 08/18/21 10:20
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-10
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000720	J *- *1	0.00200	0.000408	mg/L			08/20/21 07:38	1
Toluene	0.000776	J *- *1	0.00200	0.000367	mg/L			08/20/21 07:38	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 07:38	1
m-Xylene & p-Xylene	<0.000629	U *- *1	0.00400	0.000629	mg/L			08/20/21 07:38	1
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 07:38	1
Xylenes, Total	<0.000642	U *- *1	0.00400	0.000642	mg/L			08/20/21 07:38	1
Total BTEX	0.00150	J *- *1	0.00400	0.000657	mg/L			08/20/21 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		08/20/21 07:38	1
1,4-Difluorobenzene (Surr)	94		70 - 130		08/20/21 07:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.947	U	4.79	0.947	mg/L		08/24/21 17:45	08/25/21 06:06	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947	mg/L		08/24/21 17:45	08/25/21 06:06	1
OII Range Organics (Over C28-C36)	<0.914	U	4.79	0.914	mg/L		08/24/21 17:45	08/25/21 06:06	1
Total TPH	<0.947	U	4.79	0.947	mg/L		08/24/21 17:45	08/25/21 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135	08/24/21 17:45	08/25/21 06:06	1
o-Terphenyl	106		70 - 135	08/24/21 17:45	08/25/21 06:06	1

Client Sample ID: MW-12S
Date Collected: 08/18/21 11:45
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-11
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.848		0.0400	0.00816	mg/L			08/21/21 18:02	20
Toluene	0.118	*- *1	0.00200	0.000367	mg/L			08/20/21 07:59	1
Ethylbenzene	0.176	*- *1	0.00200	0.000657	mg/L			08/20/21 07:59	1
m-Xylene & p-Xylene	0.734	*- *1	0.00400	0.000629	mg/L			08/20/21 07:59	1
o-Xylene	0.0525	*- *1	0.00200	0.000642	mg/L			08/20/21 07:59	1
Xylenes, Total	0.787	*- *1	0.00400	0.000642	mg/L			08/20/21 07:59	1
Total BTEX	3.21		0.0800	0.0131	mg/L			08/21/21 18:02	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130		08/20/21 07:59	1
1,4-Difluorobenzene (Surr)	88		70 - 130		08/20/21 07:59	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-12S
Date Collected: 08/18/21 11:45
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-11
Matrix: Water

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	6.14		4.66	0.920	mg/L		08/24/21 17:45	08/25/21 12:36	1
Diesel Range Organics (Over C10-C28)	2.48	J	4.66	0.920	mg/L		08/24/21 17:45	08/25/21 12:36	1
Oil Range Organics (Over C28-C36)	<0.888	U	4.66	0.888	mg/L		08/24/21 17:45	08/25/21 12:36	1
Total TPH	8.62		4.66	0.920	mg/L		08/24/21 17:45	08/25/21 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 135*	*08/24/21 17:45*	*08/25/21 12:36*	*1*
o-Terphenyl	*98*		*70 - 135*	*08/24/21 17:45*	*08/25/21 12:36*	*1*

Client Sample ID: MW-12D
Date Collected: 08/18/21 11:20
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-12
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.232	*- *1	0.00200	0.000408	mg/L			08/20/21 06:58	1
Toluene	0.00147	J *- *1	0.00200	0.000367	mg/L			08/20/21 06:58	1
Ethylbenzene	0.000711	J *- *1	0.00200	0.000657	mg/L			08/20/21 06:58	1
m-Xylene & p-Xylene	0.00813	*- *1	0.00400	0.000629	mg/L			08/20/21 06:58	1
o-Xylene	0.00102	J *- *1	0.00200	0.000642	mg/L			08/20/21 06:58	1
Xylenes, Total	0.00915	*- *1	0.00400	0.000642	mg/L			08/20/21 06:58	1
Total BTEX	0.243	*- *1	0.00400	0.000657	mg/L			08/20/21 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/20/21 06:58*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*08/20/21 06:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.920	U	4.66	0.920	mg/L		08/24/21 17:45	08/25/21 06:42	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920	mg/L		08/24/21 17:45	08/25/21 06:42	1
Oil Range Organics (Over C28-C36)	<0.888	U	4.66	0.888	mg/L		08/24/21 17:45	08/25/21 06:42	1
Total TPH	<0.920	U	4.66	0.920	mg/L		08/24/21 17:45	08/25/21 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 135*	*08/24/21 17:45*	*08/25/21 06:42*	*1*
o-Terphenyl	*95*		*70 - 135*	*08/24/21 17:45*	*08/25/21 06:42*	*1*

Client Sample ID: MW-13D
Date Collected: 08/18/21 09:45
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-13
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00189	J *- *1	0.00200	0.000408	mg/L			08/20/21 07:18	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			08/20/21 07:18	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			08/20/21 07:18	1
m-Xylene & p-Xylene	<0.000629	U *- *1	0.00400	0.000629	mg/L			08/20/21 07:18	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-13D

Date Collected: 08/18/21 09:45
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-13

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U *- *1	0.00200	0.000642	mg/L			08/20/21 07:18	1
Xylenes, Total	<0.000642	U *- *1	0.00400	0.000642	mg/L			08/20/21 07:18	1
Total BTEX	**0.00189**	**J *- *1**	0.00400	0.000657	mg/L			08/20/21 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/20/21 07:18*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*08/20/21 07:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.956	U	4.84	0.956	mg/L		08/24/21 17:45	08/25/21 07:18	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		08/24/21 17:45	08/25/21 07:18	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		08/24/21 17:45	08/25/21 07:18	1
Total TPH	<0.956	U	4.84	0.956	mg/L		08/24/21 17:45	08/25/21 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 135*	*08/24/21 17:45*	*08/25/21 07:18*	*1*
o-Terphenyl	*94*		*70 - 135*	*08/24/21 17:45*	*08/25/21 07:18*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-5258-1	MW-3	99	98
880-5258-1 MS	MW-3	95	93
880-5258-1 MSD	MW-3	93	94
880-5258-2	MW-4	96	94
880-5258-3	MW-5	95	96
880-5258-4	MW-6	100	101
880-5258-5	MW-7	98	98
880-5258-6	MW-8	102	101
880-5258-7	MW-9	100	99
880-5258-8	MW-10	100	99
880-5258-9	MW-11S	66 S1-	95
880-5258-10	MW-11D	94	94
880-5258-11	MW-12S	70	88
880-5258-12	MW-12D	94	88
880-5258-13	MW-13D	100	97
880-5305-A-1 MS	Matrix Spike	92	108
880-5305-A-1 MSD	Matrix Spike Duplicate	96	119
LCS 880-6774/3	Lab Control Sample	91	105
LCS 880-6879/3	Lab Control Sample	96	120
LCSD 880-6774/4	Lab Control Sample Dup	101	104
LCSD 880-6879/4	Lab Control Sample Dup	90	119
MB 880-6774/8	Method Blank	123	97
MB 880-6879/8	Method Blank	61 S1-	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-5258-1	MW-3	79	93
880-5258-2	MW-4	80	94
880-5258-3	MW-5	87	101
880-5258-4	MW-6	86	101
880-5258-5	MW-7	89	104
880-5258-6	MW-8	82	96
880-5258-7	MW-9	87	103
880-5258-8	MW-10	78	92
880-5258-9 - RA	MW-11S	80	94
880-5258-10	MW-11D	91	106
880-5258-11 - RA	MW-12S	83	98
880-5258-12	MW-12D	81	95
880-5258-12 MS	MW-12D	93	91
880-5258-13	MW-13D	79	94
LCS 860-20140/2-A	Lab Control Sample	111	104
LCSD 860-20140/3-A	Lab Control Sample Dup	114	106

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-135)	(70-135)								
MB 860-20140/1-A	Method Blank	84	99								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6774/8
Matrix: Water
Analysis Batch: 6774

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/20/21 00:07	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/20/21 00:07	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/20/21 00:07	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/20/21 00:07	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/20/21 00:07	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			08/20/21 00:07	1
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			08/20/21 00:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*08/20/21 00:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*08/20/21 00:07*	*1*

Lab Sample ID: LCS 880-6774/3
Matrix: Water
Analysis Batch: 6774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07359		mg/L		74	70 - 130		
Toluene			0.100	0.06482	*-	mg/L		65	70 - 130		
Ethylbenzene			0.100	0.06347	*-	mg/L		63	70 - 130		
m-Xylene & p-Xylene			0.200	0.1254	*-	mg/L		63	70 - 130		
o-Xylene			0.100	0.06151	*-	mg/L		62	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-6774/4
Matrix: Water
Analysis Batch: 6774

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
Benzene			0.100	0.005324	*- *1	mg/L		5	70 - 130	173	20
Toluene			0.100	0.004741	*- *1	mg/L		5	70 - 130	173	20
Ethylbenzene			0.100	0.004500	*- *1	mg/L		4	70 - 130	174	20
m-Xylene & p-Xylene			0.200	0.008320	*- *1	mg/L		4	70 - 130	175	20
o-Xylene			0.100	0.005999	*- *1	mg/L		6	70 - 130	164	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-5258-1 MS
Matrix: Water
Analysis Batch: 6774

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.000408	U *- *1	0.100	0.08031		mg/L		80	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5258-1 MS
Matrix: Water
Analysis Batch: 6774

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.000367	U *- *1	0.100	0.09152		mg/L		92	70 - 130
Ethylbenzene	<0.000657	U *- *1	0.100	0.08776		mg/L		88	70 - 130
m-Xylene & p-Xylene	0.000880	J *- *1	0.200	0.1786		mg/L		89	70 - 130
o-Xylene	<0.000642	U *- *1	0.100	0.08692		mg/L		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-5258-1 MSD
Matrix: Water
Analysis Batch: 6774

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000408	U *- *1	0.100	0.09115		mg/L		91	70 - 130	13	25
Toluene	<0.000367	U *- *1	0.100	0.08819		mg/L		88	70 - 130	4	25
Ethylbenzene	<0.000657	U *- *1	0.100	0.08555		mg/L		86	70 - 130	3	25
m-Xylene & p-Xylene	0.000880	J *- *1	0.200	0.1722		mg/L		86	70 - 130	4	25
o-Xylene	<0.000642	U *- *1	0.100	0.08330		mg/L		83	70 - 130	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-6879/8
Matrix: Water
Analysis Batch: 6879

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/21/21 14:05	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/21/21 14:05	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/21/21 14:05	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/21/21 14:05	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/21/21 14:05	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			08/21/21 14:05	1
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			08/21/21 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*		*08/21/21 14:05*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*08/21/21 14:05*	*1*

Lab Sample ID: LCS 880-6879/3
Matrix: Water
Analysis Batch: 6879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09284		mg/L		93	70 - 130
Toluene	0.100	0.09533		mg/L		95	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-6879/3
Matrix: Water
Analysis Batch: 6879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.09966		mg/L		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1968		mg/L		98	70 - 130
o-Xylene	0.100	0.09604		mg/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 880-6879/4
Matrix: Water
Analysis Batch: 6879

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
Benzene	0.100	0.08925		mg/L		89	70 - 130	4	20
Toluene	0.100	0.08833		mg/L		88	70 - 130	8	20
Ethylbenzene	0.100	0.09310		mg/L		93	70 - 130	7	20
m-Xylene & p-Xylene	0.200	0.1847		mg/L		92	70 - 130	6	20
o-Xylene	0.100	0.09129		mg/L		91	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-20140/1-A
Matrix: Water
Analysis Batch: 20013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20140

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		08/24/21 16:44	08/25/21 01:50	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		08/24/21 16:44	08/25/21 01:50	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		08/24/21 16:44	08/25/21 01:50	1
Total TPH	<0.988	U	5.00	0.988	mg/L		08/24/21 16:44	08/25/21 01:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 135*	*08/24/21 16:44*	*08/25/21 01:50*	*1*
o-Terphenyl	*99*		*70 - 135*	*08/24/21 16:44*	*08/25/21 01:50*	*1*

Lab Sample ID: LCS 860-20140/2-A
Matrix: Water
Analysis Batch: 20013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	100	107.0		mg/L		107	70 - 135

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 860-20140/2-A
Matrix: Water
Analysis Batch: 20013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20140

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			100	103.5		mg/L		103	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 135*
o-Terphenyl	*104*		*70 - 135*

Lab Sample ID: LCSD 860-20140/3-A
Matrix: Water
Analysis Batch: 20013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20140

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			100	110.4		mg/L		110	70 - 135	3	35
Diesel Range Organics (Over C10-C28)			100	107.6		mg/L		107	70 - 135	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 135*
o-Terphenyl	*106*		*70 - 135*

Lab Sample ID: 880-5258-12 MS
Matrix: Water
Analysis Batch: 20013

Client Sample ID: MW-12D
Prep Type: Total/NA
Prep Batch: 20140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<0.920	U	92.9	82.34		mg/L		89	70 - 135		
Diesel Range Organics (Over C10-C28)	<0.920	U	92.8	82.24		mg/L		89	70 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 135*
o-Terphenyl	*91*		*70 - 135*

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

GC VOA

Analysis Batch: 6774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5258-1	MW-3	Total/NA	Water	8021B	
880-5258-2	MW-4	Total/NA	Water	8021B	
880-5258-3	MW-5	Total/NA	Water	8021B	
880-5258-4	MW-6	Total/NA	Water	8021B	
880-5258-5	MW-7	Total/NA	Water	8021B	
880-5258-6	MW-8	Total/NA	Water	8021B	
880-5258-7	MW-9	Total/NA	Water	8021B	
880-5258-8	MW-10	Total/NA	Water	8021B	
880-5258-9	MW-11S	Total/NA	Water	8021B	
880-5258-10	MW-11D	Total/NA	Water	8021B	
880-5258-11	MW-12S	Total/NA	Water	8021B	
880-5258-12	MW-12D	Total/NA	Water	8021B	
880-5258-13	MW-13D	Total/NA	Water	8021B	
MB 880-6774/8	Method Blank	Total/NA	Water	8021B	
LCS 880-6774/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-6774/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-5258-1 MS	MW-3	Total/NA	Water	8021B	
880-5258-1 MSD	MW-3	Total/NA	Water	8021B	

Analysis Batch: 6879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5258-9	MW-11S	Total/NA	Water	8021B	
880-5258-11	MW-12S	Total/NA	Water	8021B	
MB 880-6879/8	Method Blank	Total/NA	Water	8021B	
LCS 880-6879/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-6879/4	Lab Control Sample Dup	Total/NA	Water	8021B	

GC Semi VOA

Analysis Batch: 20013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5258-1	MW-3	Total/NA	Water	8015B NM	20140
880-5258-2	MW-4	Total/NA	Water	8015B NM	20140
880-5258-3	MW-5	Total/NA	Water	8015B NM	20140
880-5258-4	MW-6	Total/NA	Water	8015B NM	20140
880-5258-5	MW-7	Total/NA	Water	8015B NM	20140
880-5258-6	MW-8	Total/NA	Water	8015B NM	20140
880-5258-7	MW-9	Total/NA	Water	8015B NM	20140
880-5258-8	MW-10	Total/NA	Water	8015B NM	20140
880-5258-10	MW-11D	Total/NA	Water	8015B NM	20140
880-5258-12	MW-12D	Total/NA	Water	8015B NM	20140
880-5258-13	MW-13D	Total/NA	Water	8015B NM	20140
MB 860-20140/1-A	Method Blank	Total/NA	Water	8015B NM	20140
LCS 860-20140/2-A	Lab Control Sample	Total/NA	Water	8015B NM	20140
LCSD 860-20140/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	20140
880-5258-12 MS	MW-12D	Total/NA	Water	8015B NM	20140

Prep Batch: 20140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5258-1	MW-3	Total/NA	Water	8015NM Aq Prep	
880-5258-2	MW-4	Total/NA	Water	8015NM Aq Prep	

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

GC Semi VOA (Continued)

Prep Batch: 20140 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5258-3	MW-5	Total/NA	Water	8015NM Aq Prep	
880-5258-4	MW-6	Total/NA	Water	8015NM Aq Prep	
880-5258-5	MW-7	Total/NA	Water	8015NM Aq Prep	
880-5258-6	MW-8	Total/NA	Water	8015NM Aq Prep	
880-5258-7	MW-9	Total/NA	Water	8015NM Aq Prep	
880-5258-8	MW-10	Total/NA	Water	8015NM Aq Prep	
880-5258-9 - RA	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-5258-10	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-5258-11 - RA	MW-12S	Total/NA	Water	8015NM Aq Prep	
880-5258-12	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-5258-13	MW-13D	Total/NA	Water	8015NM Aq Prep	
MB 860-20140/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-20140/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-20140/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-5258-12 MS	MW-12D	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 20226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5258-9 - RA	MW-11S	Total/NA	Water	8015B NM	20140
880-5258-11 - RA	MW-12S	Total/NA	Water	8015B NM	20140

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-3
Date Collected: 08/17/21 15:15
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 00:36	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 16:44	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 03:03	IS	XEN STF

Client Sample ID: MW-4
Date Collected: 08/17/21 14:40
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 00:56	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 16:44	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 03:22	IS	XEN STF

Client Sample ID: MW-5
Date Collected: 08/17/21 17:40
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 02:46	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 03:40	IS	XEN STF

Client Sample ID: MW-6
Date Collected: 08/17/21 17:00
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 03:06	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 03:58	IS	XEN STF

Client Sample ID: MW-7
Date Collected: 08/17/21 16:25
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 03:26	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 04:16	IS	XEN STF

Client Sample ID: MW-8
Date Collected: 08/17/21 15:55
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 03:47	MR	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-8
Date Collected: 08/17/21 15:55
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 04:35	IS	XEN STF

Client Sample ID: MW-9
Date Collected: 08/17/21 13:55
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 04:07	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 04:53	IS	XEN STF

Client Sample ID: MW-10
Date Collected: 08/18/21 09:10
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 06:37	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 05:11	IS	XEN STF

Client Sample ID: MW-11S
Date Collected: 08/18/21 10:50
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 08:19	MR	XEN MID
Total/NA	Analysis	8021B		20	6879	08/21/21 18:28	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep	RA		20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM	RA	1	20226	08/25/21 12:17	IS	XEN STF

Client Sample ID: MW-11D
Date Collected: 08/18/21 10:20
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 07:38	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 06:06	IS	XEN STF

Client Sample ID: MW-12S
Date Collected: 08/18/21 11:45
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 07:59	MR	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Client Sample ID: MW-12S
Date Collected: 08/18/21 11:45
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		20	6879	08/21/21 18:02	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep	RA		20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM	RA	1	20226	08/25/21 12:36	IS	XEN STF

Client Sample ID: MW-12D
Date Collected: 08/18/21 11:20
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 06:58	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 06:42	IS	XEN STF

Client Sample ID: MW-13D
Date Collected: 08/18/21 09:45
Date Received: 08/19/21 08:58

Lab Sample ID: 880-5258-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	6774	08/20/21 07:18	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			20140	08/24/21 17:45	IS	XEN STF
Total/NA	Analysis	8015B NM		1	20013	08/25/21 07:18	IS	XEN STF

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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
8021B		Water	Total BTEX

Laboratory: Eurofins Xenco, Stafford

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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-21
Texas	NELAP	T104704215-21-44	06-30-22
USDA	US Federal Programs	P330-19-00137	04-24-22

Method Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN MID
8015NM Aq Prep	Microextraction	SW846	XEN STF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-5258-1
SDG: Carlsbad, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5258-1	MW-3	Water	08/17/21 15:15	08/19/21 08:58
880-5258-2	MW-4	Water	08/17/21 14:40	08/19/21 08:58
880-5258-3	MW-5	Water	08/17/21 17:40	08/19/21 08:58
880-5258-4	MW-6	Water	08/17/21 17:00	08/19/21 08:58
880-5258-5	MW-7	Water	08/17/21 16:25	08/19/21 08:58
880-5258-6	MW-8	Water	08/17/21 15:55	08/19/21 08:58
880-5258-7	MW-9	Water	08/17/21 13:55	08/19/21 08:58
880-5258-8	MW-10	Water	08/18/21 09:10	08/19/21 08:58
880-5258-9	MW-11S	Water	08/18/21 10:50	08/19/21 08:58
880-5258-10	MW-11D	Water	08/18/21 10:20	08/19/21 08:58
880-5258-11	MW-12S	Water	08/18/21 11:45	08/19/21 08:58
880-5258-12	MW-12D	Water	08/18/21 11:20	08/19/21 08:58
880-5258-13	MW-13D	Water	08/18/21 09:45	08/19/21 08:58

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad, NM (575) 988-3199

880-5258 Chain of Custody

1 of 2

Project Manager	Bexy Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address	705 W. Wadley	Address	
City State ZIP	MIDLAND TX 79705	City State ZIP	
Phone	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	South Carlsbad	Turn Around	
Project Number	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name	SHANE DILLER	TAT starts the day received by the lab if received by 4.30pm	
PO #	03B1226001		

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	0.5
Sample Custody Seals	Yes No (N/A)	Temperature Reading	1.2
Total Containers		Corrected Temperature	1.7

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX 8021B	Sample Comments
MW-3	GW	8-17	1515		G	5				
MW-4	GW	8-17	1440		G	5				
MW-5	GW	8-17	1740		G	5				
MW-6	GW	8-17	1700		G	5				
MW-7	GW	8-17	1625		G	5				
MW-8	GW	8-17	~~1740~~		G	5				1530 Sample Time
MW-9	GW	8-17	~~1740~~		G	5				1355 Sample Time
MW-10	GW	8-18	910		G	5				
MW-11S	GW	8-18	1050		G	5				
MW-11D	GW	8-18	1020		G	5				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1			2 JKRAMER	8.19.21 850	
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

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Chain of Custody

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager	Beaux Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address	705 W. Wadley	Address.	
City State ZIP	MIDLAND TX 79705	City State ZIP	
Phone	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	South Carlsbad	Turn Around	
Project Number	038 1226 001	☐ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name	Shane Diller	TAT starts the day received by the lab, if received by 4.30pm	
PO #	038 1226 001		

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Samples Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX 8021B
MW-12S	GW	8-18	1145		G	5		X	X
MW-12D	GW	8-18	1120		G	5		X	X
MW-13D	GW	8-18	945		G	5		X	X

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		8-19-21				
2					8.19.21 0850	
3				4		
5				6		

Revised Date: 08/25/2020 Rev 2020.2

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Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-5258-1
SDG Number: Carlsbad, NM

Login Number: 5258
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-5258-1
SDG Number: Carlsbad, NM

Login Number: 5258
List Number: 2
Creator: Palmar, Pedro

List Source: Eurofins Xenco, Stafford
List Creation: 08/20/21 01:24 PM

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?	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").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-8663-1
Laboratory Sample Delivery Group: Carlsbad, NM
Client Project/Site: South Carlsbad

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
12/7/2021 3:32:35 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
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Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad

Laboratory Job ID: 880-8663-1
SDG: Carlsbad, NM

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Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD 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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Job ID: 880-8663-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-8663-1

Receipt
The samples were received on 11/24/2021 8:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC VOA
Method 8021B: The following sample was diluted due to the nature of the sample matrix: MW-125 (880-8663-10) at 10.0. 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.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-14129 and analytical batch 880-13939 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-3

Lab Sample ID: 880-8663-1
Matrix: Water
Date Collected: 11/23/21 09:20
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/02/21 19:21	1
Toluene	**0.000418**	**J**	0.00200	0.000367	mg/L			12/02/21 19:21	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 19:21	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/02/21 19:21	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 19:21	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/02/21 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*		*12/02/21 19:21*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*		*12/02/21 19:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.877	U	4.44	0.877	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.877	U	4.44	0.877	mg/L		12/06/21 17:10	12/06/21 20:58	1
Diesel Range Organics (Over C10-C28)	<0.877	U F1	4.44	0.877	mg/L		12/06/21 17:10	12/06/21 20:58	1
Oil Range Organics (Over C28-C36)	<0.846	U	4.44	0.846	mg/L		12/06/21 17:10	12/06/21 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/06/21 17:10*	*12/06/21 20:58*	*1*
o-Terphenyl	*88*		*70 - 130*	*12/06/21 17:10*	*12/06/21 20:58*	*1*

Client Sample ID: MW-4

Lab Sample ID: 880-8663-2
Matrix: Water
Date Collected: 11/23/21 08:45
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/02/21 19:47	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/02/21 19:47	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 19:47	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/02/21 19:47	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 19:47	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/02/21 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*167*	*S1+*	*70 - 130*		*12/02/21 19:47*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*		*12/02/21 19:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/03/21 10:31	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-4

Lab Sample ID: 880-8663-2
Matrix: Water
Date Collected: 11/23/21 08:45
Date Received: 11/24/21 08:54

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7.73**		4.49	0.887	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**5.19**		4.49	0.887	mg/L		12/06/21 17:10	12/06/21 22:04	1
Diesel Range Organics (Over C10-C28)	**2.54**	**J**	4.49	0.887	mg/L		12/06/21 17:10	12/06/21 22:04	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		12/06/21 17:10	12/06/21 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/06/21 17:10*	*12/06/21 22:04*	*1*
o-Terphenyl	*93*		*70 - 130*	*12/06/21 17:10*	*12/06/21 22:04*	*1*

Client Sample ID: MW-5

Lab Sample ID: 880-8663-3
Matrix: Water
Date Collected: 11/23/21 11:25
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/02/21 20:14	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/02/21 20:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 20:14	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/02/21 20:14	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 20:14	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/02/21 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*		*12/02/21 20:14*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*		*12/02/21 20:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		12/06/21 17:10	12/06/21 22:26	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		12/06/21 17:10	12/06/21 22:26	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		12/06/21 17:10	12/06/21 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/06/21 17:10*	*12/06/21 22:26*	*1*
o-Terphenyl	*90*		*70 - 130*	*12/06/21 17:10*	*12/06/21 22:26*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-6

Lab Sample ID: 880-8663-4
Matrix: Water
Date Collected: 11/23/21 10:50
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/02/21 20:40	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/02/21 20:40	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 20:40	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/02/21 20:40	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 20:40	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/02/21 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*		*12/02/21 20:40*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*		*12/02/21 20:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		12/06/21 17:10	12/06/21 22:48	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		12/06/21 17:10	12/06/21 22:48	1
OII Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		12/06/21 17:10	12/06/21 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/06/21 17:10*	*12/06/21 22:48*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/06/21 17:10*	*12/06/21 22:48*	*1*

Client Sample ID: MW-7

Lab Sample ID: 880-8663-5
Matrix: Water
Date Collected: 11/23/21 10:20
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/02/21 21:06	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/02/21 21:06	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 21:06	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/02/21 21:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 21:06	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/02/21 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*168*	*S1+*	*70 - 130*		*12/02/21 21:06*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*		*12/02/21 21:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/03/21 10:31	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-7

Lab Sample ID: 880-8663-5
Matrix: Water
Date Collected: 11/23/21 10:20
Date Received: 11/24/21 08:54

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.901	U	4.56	0.901	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.901	U	4.56	0.901	mg/L		12/06/21 17:10	12/06/21 19:54	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		12/06/21 17:10	12/06/21 19:54	1
Oil Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		12/06/21 17:10	12/06/21 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*12/06/21 17:10*	*12/06/21 19:54*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/06/21 17:10*	*12/06/21 19:54*	*1*

Client Sample ID: MW-8

Lab Sample ID: 880-8663-6
Matrix: Water
Date Collected: 11/23/21 09:50
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/02/21 21:32	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/02/21 21:32	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 21:32	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/02/21 21:32	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 21:32	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/02/21 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*		*12/02/21 21:32*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*		*12/02/21 21:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		12/06/21 17:10	12/06/21 20:15	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		12/06/21 17:10	12/06/21 20:15	1
Oil Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		12/06/21 17:10	12/06/21 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/06/21 17:10*	*12/06/21 20:15*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/06/21 17:10*	*12/06/21 20:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-9

Lab Sample ID: 880-8663-7
Matrix: Water
Date Collected: 11/23/21 11:55
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0742**		0.00200	0.000408	mg/L			12/02/21 21:58	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/02/21 21:58	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 21:58	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/02/21 21:58	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 21:58	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/02/21 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*168*	*S1+*	*70 - 130*		*12/02/21 21:58*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*		*12/02/21 21:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0742**		0.00400	0.000657	mg/L			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.904	U	4.57	0.904	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		12/06/21 17:10	12/06/21 20:36	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		12/06/21 17:10	12/06/21 20:36	1
OII Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		12/06/21 17:10	12/06/21 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/06/21 17:10*	*12/06/21 20:36*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/06/21 17:10*	*12/06/21 20:36*	*1*

Client Sample ID: MW-115

Lab Sample ID: 880-8663-8
Matrix: Water
Date Collected: 11/23/21 13:05
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.866**		0.0200	0.00408	mg/L			12/02/21 22:51	10
Toluene	**0.00553**	**J**	0.0200	0.00367	mg/L			12/02/21 22:51	10
Ethylbenzene	**0.314**		0.0200	0.00657	mg/L			12/02/21 22:51	10
m-Xylene & p-Xylene	**0.203**	***+**	0.0400	0.00629	mg/L			12/02/21 22:51	10
o-Xylene	<0.00642	U	0.0200	0.00642	mg/L			12/02/21 22:51	10
Xylenes, Total	**0.203**	***+**	0.0400	0.00642	mg/L			12/02/21 22:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*		*12/02/21 22:51*	*10*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*		*12/02/21 22:51*	*10*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.39**		0.0400	0.00657	mg/L			12/03/21 10:31	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-115

Lab Sample ID: 880-8663-8
Matrix: Water
Date Collected: 11/23/21 13:05
Date Received: 11/24/21 08:54

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**10.6**		4.55	0.898	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3.54**	**J**	4.55	0.898	mg/L		12/06/21 17:10	12/06/21 20:58	1
Diesel Range Organics (Over C10-C28)	**7.05**		4.55	0.898	mg/L		12/06/21 17:10	12/06/21 20:58	1
Oll Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		12/06/21 17:10	12/06/21 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/06/21 17:10*	*12/06/21 20:58*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/06/21 17:10*	*12/06/21 20:58*	*1*

Client Sample ID: MW-11D

Lab Sample ID: 880-8663-9
Matrix: Water
Date Collected: 11/23/21 12:35
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00983**		0.00200	0.000408	mg/L			12/02/21 22:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/02/21 22:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 22:25	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/02/21 22:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 22:25	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/02/21 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*		*12/02/21 22:25*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*		*12/02/21 22:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00983**		0.00400	0.000657	mg/L			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**0.886**	**J**	4.48	0.885	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**0.886**	**J**	4.48	0.885	mg/L		12/06/21 17:10	12/06/21 21:20	1
Diesel Range Organics (Over C10-C28)	<0.885	U	4.48	0.885	mg/L		12/06/21 17:10	12/06/21 21:20	1
Oll Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		12/06/21 17:10	12/06/21 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*12/06/21 17:10*	*12/06/21 21:20*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/06/21 17:10*	*12/06/21 21:20*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-125

Lab Sample ID: 880-8663-10
Matrix: Water
Date Collected: 11/23/21 14:10
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.34**		0.0200	0.00408	mg/L			12/03/21 04:04	10
Toluene	**0.0254**		0.0200	0.00367	mg/L			12/03/21 04:04	10
Ethylbenzene	**0.392**		0.0200	0.00657	mg/L			12/03/21 04:04	10
m-Xylene & p-Xylene	**1.01**	***+**	0.0400	0.00629	mg/L			12/03/21 04:04	10
o-Xylene	<0.00642	U	0.0200	0.00642	mg/L			12/03/21 04:04	10
Xylenes, Total	**1.01**	***+**	0.0400	0.00642	mg/L			12/03/21 04:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*70 - 130*		*12/03/21 04:04*	*10*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*		*12/03/21 04:04*	*10*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**2.77**		0.0400	0.00657	mg/L			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**9.99**		4.46	0.882	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**5.05**		4.46	0.882	mg/L		12/06/21 17:10	12/06/21 21:41	1
Diesel Range Organics (Over C10-C28)	**4.94**		4.46	0.882	mg/L		12/06/21 17:10	12/06/21 21:41	1
Oil Range Organics (Over C28-C36)	<0.851	U	4.46	0.851	mg/L		12/06/21 17:10	12/06/21 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/06/21 17:10*	*12/06/21 21:41*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/06/21 17:10*	*12/06/21 21:41*	*1*

Client Sample ID: MW-12D

Lab Sample ID: 880-8663-11
Matrix: Water
Date Collected: 11/23/21 13:40
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.182**		0.00200	0.000408	mg/L			12/03/21 00:35	1
Toluene	**0.000658**	**J**	0.00200	0.000367	mg/L			12/03/21 00:35	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/03/21 00:35	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/03/21 00:35	1
o-Xylene	**0.000943**	**J**	0.00200	0.000642	mg/L			12/03/21 00:35	1
Xylenes, Total	**0.000943**	**J *+**	0.00400	0.000642	mg/L			12/03/21 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*172*	*S1+*	*70 - 130*		*12/03/21 00:35*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*		*12/03/21 00:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.184**		0.00400	0.000657	mg/L			12/03/21 10:31	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-12D

Lab Sample ID: 880-8663-11
Matrix: Water
Date Collected: 11/23/21 13:40
Date Received: 11/24/21 08:54

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.882	U	4.46	0.882	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.882	U	4.46	0.882	mg/L		12/06/21 17:10	12/06/21 22:04	1
Diesel Range Organics (Over C10-C28)	<0.882	U	4.46	0.882	mg/L		12/06/21 17:10	12/06/21 22:04	1
Oil Range Organics (Over C28-C36)	<0.851	U	4.46	0.851	mg/L		12/06/21 17:10	12/06/21 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/06/21 17:10*	*12/06/21 22:04*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/06/21 17:10*	*12/06/21 22:04*	*1*

Client Sample ID: MW-13D

Lab Sample ID: 880-8663-12
Matrix: Water
Date Collected: 11/23/21 14:40
Date Received: 11/24/21 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/03/21 01:01	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/03/21 01:01	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/03/21 01:01	1
m-Xylene & p-Xylene	<0.000629	U *+	0.00400	0.000629	mg/L			12/03/21 01:01	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/03/21 01:01	1
Xylenes, Total	<0.000642	U *+	0.00400	0.000642	mg/L			12/03/21 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*		*12/03/21 01:01*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*		*12/03/21 01:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/03/21 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			12/06/21 15:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		12/06/21 17:10	12/07/21 08:34	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		12/06/21 17:10	12/07/21 08:34	1
Oil Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		12/06/21 17:10	12/07/21 08:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/06/21 17:10*	*12/07/21 08:34*	*1*
o-Terphenyl	*118*		*70 - 130*	*12/06/21 17:10*	*12/07/21 08:34*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-8663-1	MW-3	165 S1+	121
880-8663-2	MW-4	167 S1+	124
880-8663-3	MW-5	157 S1+	120
880-8663-4	MW-6	157 S1+	115
880-8663-5	MW-7	168 S1+	123
880-8663-6	MW-8	165 S1+	123
880-8663-7	MW-9	168 S1+	111
880-8663-8	MW-115	148 S1+	120
880-8663-9	MW-11D	156 S1+	119
880-8663-10	MW-125	152 S1+	128
880-8663-11	MW-12D	172 S1+	117
880-8663-12	MW-13D	153 S1+	115
880-8847-A-1 MS	Matrix Spike	150 S1+	119
880-8847-A-1 MSD	Matrix Spike Duplicate	150 S1+	120
LCS 880-13743/3	Lab Control Sample	135 S1+	103
LCSD 880-13743/4	Lab Control Sample Dup	137 S1+	107
MB 880-13743/8	Method Blank	91	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-8663-1	MW-3	76	88
880-8663-1 MS	MW-3	68 S1-	71
880-8663-1 MSD	MW-3	66 S1-	66 S1-
880-8663-2	MW-4	82	93
880-8663-3	MW-5	78	90
880-8663-4	MW-6	72	82
880-8663-5	MW-7	67 S1-	74
880-8663-6	MW-8	75	84
880-8663-7	MW-9	68 S1-	80
880-8663-8	MW-115	84	95
880-8663-9	MW-11D	67 S1-	76
880-8663-10	MW-125	90	104
880-8663-11	MW-12D	73	84
880-8663-12	MW-13D	102	118
LCS 880-14129/2-A	Lab Control Sample	70	71
LCSD 880-14129/3-A	Lab Control Sample Dup	85	90
MB 880-14129/1-A	Method Blank	91	105

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13743/8
Matrix: Water
Analysis Batch: 13743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/02/21 18:29	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/02/21 18:29	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/02/21 18:29	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/02/21 18:29	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/02/21 18:29	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			12/02/21 18:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*12/02/21 18:29*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*12/02/21 18:29*	*1*

Lab Sample ID: LCS 880-13743/3
Matrix: Water
Analysis Batch: 13743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1156		mg/L		116	70 - 130		
Toluene			0.100	0.1253		mg/L		125	70 - 130		
Ethylbenzene			0.100	0.1222		mg/L		122	70 - 130		
m-Xylene & p-Xylene			0.200	0.2651	*+	mg/L		133	70 - 130		
o-Xylene			0.100	0.1265		mg/L		127	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-13743/4
Matrix: Water
Analysis Batch: 13743

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
Benzene			0.100	0.1037		mg/L		104	70 - 130	11	20
Toluene			0.100	0.1141		mg/L		114	70 - 130	9	20
Ethylbenzene			0.100	0.1123		mg/L		112	70 - 130	8	20
m-Xylene & p-Xylene			0.200	0.2485		mg/L		124	70 - 130	6	20
o-Xylene			0.100	0.1197		mg/L		120	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-14129/1-A
Matrix: Water
Analysis Batch: 13939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14129

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		12/06/21 17:10	12/06/21 19:54	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		12/06/21 17:10	12/06/21 19:54	1
Oil Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		12/06/21 17:10	12/06/21 19:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*12/06/21 17:10*	*12/06/21 19:54*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/06/21 17:10*	*12/06/21 19:54*	*1*

Lab Sample ID: LCS 880-14129/2-A
Matrix: Water
Analysis Batch: 13939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14129

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			90.6	76.87		mg/L		85	75 - 125		
Diesel Range Organics (Over C10-C28)			90.6	79.74		mg/L		88	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*70*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Lab Sample ID: LCSD 880-14129/3-A
Matrix: Water
Analysis Batch: 13939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 14129

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			90.6	86.31		mg/L		95	75 - 125	12	20
Diesel Range Organics (Over C10-C28)			90.6	93.09		mg/L		103	75 - 125	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: 880-8663-1 MS
Matrix: Water
Analysis Batch: 13939

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 14129

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<0.877	U	90.1	75.88		mg/L		84	75 - 125		
Diesel Range Organics (Over C10-C28)	<0.877	U F1	90.1	69.84		mg/L		78	75 - 125		

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-8663-1 MS
Matrix: Water
Analysis Batch: 13939

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 14129

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 880-8663-1 MSD
Matrix: Water
Analysis Batch: 13939

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 14129

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.877	U	90.4	71.30		mg/L		79	75 - 125	6	20
Diesel Range Organics (Over C10-C28)	<0.877	U F1	90.4	65.79	F1	mg/L		73	75 - 125	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	66	S1-	70 - 130
o-Terphenyl	66	S1-	70 - 130

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

GC VOA

Analysis Batch: 13743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8663-1	MW-3	Total/NA	Water	8021B	
880-8663-2	MW-4	Total/NA	Water	8021B	
880-8663-3	MW-5	Total/NA	Water	8021B	
880-8663-4	MW-6	Total/NA	Water	8021B	
880-8663-5	MW-7	Total/NA	Water	8021B	
880-8663-6	MW-8	Total/NA	Water	8021B	
880-8663-7	MW-9	Total/NA	Water	8021B	
880-8663-8	MW-115	Total/NA	Water	8021B	
880-8663-9	MW-11D	Total/NA	Water	8021B	
880-8663-10	MW-125	Total/NA	Water	8021B	
880-8663-11	MW-12D	Total/NA	Water	8021B	
880-8663-12	MW-13D	Total/NA	Water	8021B	
MB 880-13743/8	Method Blank	Total/NA	Water	8021B	
LCS 880-13743/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-13743/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 13868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8663-1	MW-3	Total/NA	Water	Total BTEX	
880-8663-2	MW-4	Total/NA	Water	Total BTEX	
880-8663-3	MW-5	Total/NA	Water	Total BTEX	
880-8663-4	MW-6	Total/NA	Water	Total BTEX	
880-8663-5	MW-7	Total/NA	Water	Total BTEX	
880-8663-6	MW-8	Total/NA	Water	Total BTEX	
880-8663-7	MW-9	Total/NA	Water	Total BTEX	
880-8663-8	MW-115	Total/NA	Water	Total BTEX	
880-8663-9	MW-11D	Total/NA	Water	Total BTEX	
880-8663-10	MW-125	Total/NA	Water	Total BTEX	
880-8663-11	MW-12D	Total/NA	Water	Total BTEX	
880-8663-12	MW-13D	Total/NA	Water	Total BTEX	

GC Semi VOA

Analysis Batch: 13939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8663-1	MW-3	Total/NA	Water	8015B NM	14129
880-8663-2	MW-4	Total/NA	Water	8015B NM	14129
880-8663-3	MW-5	Total/NA	Water	8015B NM	14129
880-8663-4	MW-6	Total/NA	Water	8015B NM	14129
MB 880-14129/1-A	Method Blank	Total/NA	Water	8015B NM	14129
LCS 880-14129/2-A	Lab Control Sample	Total/NA	Water	8015B NM	14129
LCSD 880-14129/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	14129
880-8663-1 MS	MW-3	Total/NA	Water	8015B NM	14129
880-8663-1 MSD	MW-3	Total/NA	Water	8015B NM	14129

Analysis Batch: 13941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8663-5	MW-7	Total/NA	Water	8015B NM	14129
880-8663-6	MW-8	Total/NA	Water	8015B NM	14129
880-8663-7	MW-9	Total/NA	Water	8015B NM	14129
880-8663-8	MW-115	Total/NA	Water	8015B NM	14129

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

GC Semi VOA (Continued)

Analysis Batch: 13941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8663-9	MW-11D	Total/NA	Water	8015B NM	14129
880-8663-10	MW-125	Total/NA	Water	8015B NM	14129
880-8663-11	MW-12D	Total/NA	Water	8015B NM	14129
880-8663-12	MW-13D	Total/NA	Water	8015B NM	14129

Analysis Batch: 14112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8663-1	MW-3	Total/NA	Water	8015 NM	
880-8663-2	MW-4	Total/NA	Water	8015 NM	
880-8663-3	MW-5	Total/NA	Water	8015 NM	
880-8663-4	MW-6	Total/NA	Water	8015 NM	
880-8663-5	MW-7	Total/NA	Water	8015 NM	
880-8663-6	MW-8	Total/NA	Water	8015 NM	
880-8663-7	MW-9	Total/NA	Water	8015 NM	
880-8663-8	MW-115	Total/NA	Water	8015 NM	
880-8663-9	MW-11D	Total/NA	Water	8015 NM	
880-8663-10	MW-125	Total/NA	Water	8015 NM	
880-8663-11	MW-12D	Total/NA	Water	8015 NM	
880-8663-12	MW-13D	Total/NA	Water	8015 NM	

Prep Batch: 14129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8663-1	MW-3	Total/NA	Water	8015NM Aq Prep	
880-8663-2	MW-4	Total/NA	Water	8015NM Aq Prep	
880-8663-3	MW-5	Total/NA	Water	8015NM Aq Prep	
880-8663-4	MW-6	Total/NA	Water	8015NM Aq Prep	
880-8663-5	MW-7	Total/NA	Water	8015NM Aq Prep	
880-8663-6	MW-8	Total/NA	Water	8015NM Aq Prep	
880-8663-7	MW-9	Total/NA	Water	8015NM Aq Prep	
880-8663-8	MW-115	Total/NA	Water	8015NM Aq Prep	
880-8663-9	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-8663-10	MW-125	Total/NA	Water	8015NM Aq Prep	
880-8663-11	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-8663-12	MW-13D	Total/NA	Water	8015NM Aq Prep	
MB 880-14129/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-14129/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-14129/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-8663-1 MS	MW-3	Total/NA	Water	8015NM Aq Prep	
880-8663-1 MSD	MW-3	Total/NA	Water	8015NM Aq Prep	

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-3
Date Collected: 11/23/21 09:20
Date Received: 11/24/21 08:54

Lab Sample ID: 880-8663-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/02/21 19:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13939	12/06/21 20:58	AJ	XEN MID

Client Sample ID: MW-4
Date Collected: 11/23/21 08:45
Date Received: 11/24/21 08:54

Lab Sample ID: 880-8663-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/02/21 19:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13939	12/06/21 22:04	AJ	XEN MID

Client Sample ID: MW-5
Date Collected: 11/23/21 11:25
Date Received: 11/24/21 08:54

Lab Sample ID: 880-8663-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/02/21 20:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13939	12/06/21 22:26	AJ	XEN MID

Client Sample ID: MW-6
Date Collected: 11/23/21 10:50
Date Received: 11/24/21 08:54

Lab Sample ID: 880-8663-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/02/21 20:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13939	12/06/21 22:48	AJ	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-7
Date Collected: 11/23/21 10:20
Date Received: 11/24/21 08:54

Lab Sample ID: 880-8663-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/02/21 21:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13941	12/06/21 19:54	AJ	XEN MID

Client Sample ID: MW-8
Date Collected: 11/23/21 09:50
Date Received: 11/24/21 08:54

Lab Sample ID: 880-8663-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/02/21 21:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13941	12/06/21 20:15	AJ	XEN MID

Client Sample ID: MW-9
Date Collected: 11/23/21 11:55
Date Received: 11/24/21 08:54

Lab Sample ID: 880-8663-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/02/21 21:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13941	12/06/21 20:36	AJ	XEN MID

Client Sample ID: MW-115
Date Collected: 11/23/21 13:05
Date Received: 11/24/21 08:54

Lab Sample ID: 880-8663-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	13743	12/02/21 22:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13941	12/06/21 20:58	AJ	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Client Sample ID: MW-11D

Lab Sample ID: 880-8663-9
Matrix: Water
Date Collected: 11/23/21 12:35
Date Received: 11/24/21 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/02/21 22:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13941	12/06/21 21:20	AJ	XEN MID

Client Sample ID: MW-125

Lab Sample ID: 880-8663-10
Matrix: Water
Date Collected: 11/23/21 14:10
Date Received: 11/24/21 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	13743	12/03/21 04:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13941	12/06/21 21:41	AJ	XEN MID

Client Sample ID: MW-12D

Lab Sample ID: 880-8663-11
Matrix: Water
Date Collected: 11/23/21 13:40
Date Received: 11/24/21 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/03/21 00:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13941	12/06/21 22:04	AJ	XEN MID

Client Sample ID: MW-13D

Lab Sample ID: 880-8663-12
Matrix: Water
Date Collected: 11/23/21 14:40
Date Received: 11/24/21 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	13743	12/03/21 01:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13868	12/03/21 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			14129	12/06/21 17:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13941	12/07/21 08:34	AJ	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Water	Total TPH
Total BTEX		Water	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5030B	Purge and Trap	SW846	XEN MID
8015NM Aq Prep	Microextraction	SW846	XEN MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-8663-1
SDG: Carlsbad, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-8663-1	MW-3	Water	11/23/21 09:20	11/24/21 08:54
880-8663-2	MW-4	Water	11/23/21 08:45	11/24/21 08:54
880-8663-3	MW-5	Water	11/23/21 11:25	11/24/21 08:54
880-8663-4	MW-6	Water	11/23/21 10:50	11/24/21 08:54
880-8663-5	MW-7	Water	11/23/21 10:20	11/24/21 08:54
880-8663-6	MW-8	Water	11/23/21 09:50	11/24/21 08:54
880-8663-7	MW-9	Water	11/23/21 11:55	11/24/21 08:54
880-8663-8	MW-115	Water	11/23/21 13:05	11/24/21 08:54
880-8663-9	MW-11D	Water	11/23/21 12:35	11/24/21 08:54
880-8663-10	MW-125	Water	11/23/21 14:10	11/24/21 08:54
880-8663-11	MW-12D	Water	11/23/21 13:40	11/24/21 08:54
880-8663-12	MW-13D	Water	11/23/21 14:40	11/24/21 08:54

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Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-8663 Chain of Custody

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Project Manager:	A'Beaux Jennings	Bill to. (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W. Wadley	Address:	
City, State ZIP:	MIDLAND TX 79705	City, State ZIP:	
Phone:	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location.	Carlsbad NM	Due Date:	
Sampler's Name:	SHANE Dilley	TAT starts the day received by the lab, if received by 4.30pm	
PO #.	03B1226001		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.10	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.1	
Total Containers:		Corrected Temperature:	3.2	

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL. HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	Parameters: TPH 1005	Sample Comments
MW-3	GW	11-23	920		G	5	X	X	
MW-4	GW	11-23	845		G	5	X	X	
MW-5	GW	11-23	1125		G	5	X	X	
MW-6	GW	11-23	1050		G	5	X	X	
MW-7	GW	11-23	1020		G	5	X	X	
MW-8	GW	11-23	950		G	5	X	X	
MW-9	GW	11-23	1155		G	5	X	X	
MW-11S	GW	11-23	1305		G	5	X	X	
MW-11D	GW	11-23	1235		G	5	X	X	
MW-12S	GW	11-23	1410		G	5	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/24/2 8:53	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392 7550, Carlsbad NM (575) 988-3199

Work Order No: 8663

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Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley	Address	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	432 230 3344	Email	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad	Turn Around	
Project Number:	03812260001	☒ Routine ☐ Rush	
Project Location:	Carlsbad NM	Due Date:	
Sampler's Name:	SHANE DILLER	TAT starts the day received by the lab if received by 4.30pm	
PO #	03812260001		

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice.	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1.0
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	31
Total Containers:		Corrected Temperature:	32

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	Parameters: TPH 1005
MW-12D	GW	11-23	1340		G	5		X	X
MW-13D	GW	11-23	1440		G	5		X	X

NPE 11-24-21

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Leticia R	11/24/21 8:53	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-8663-1
SDG Number: Carlsbad, NM

Login Number: 8663
List Number: 1
Creator: Teel, Brianna

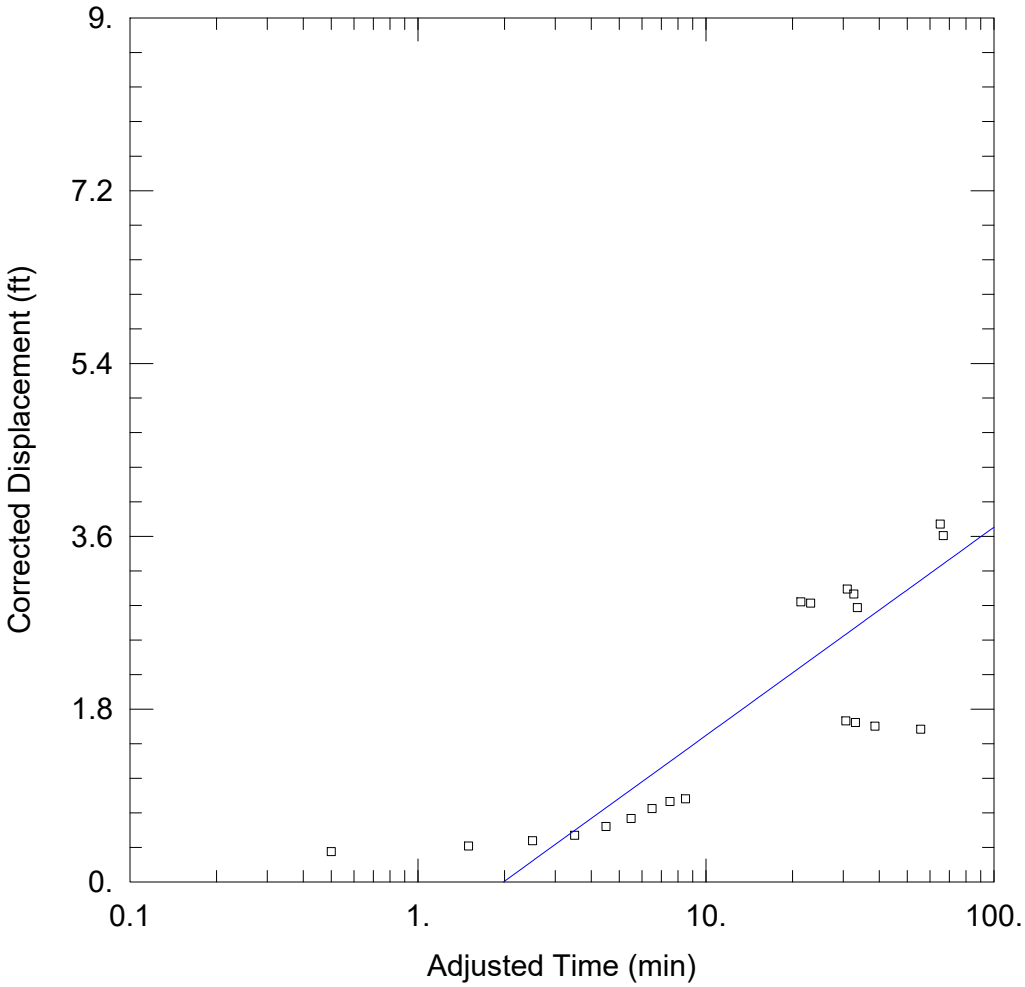
List Source: Eurofins Xenco, Midland

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	

ENSOLUM

APPENDIX E

GW Classification Documentation



WELL TEST ANALYSIS

Data Set: C:\Users\hholt\Desktop\Aqtesolv\South Carlsbas CS\MW-11S.aqt
Date: 08/30/21 Time: 14:03:25

PROJECT INFORMATION

Company: Ensolum, LLC
Client: Enterprise Field Services, LLC
Project: 03B1226001
Location: South Carlsbad Compressor Sta.
Test Well: MW-11S
Test Date: 8/4/21

AQUIFER DATA

Saturated Thickness: 11.1 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-11S	0	0

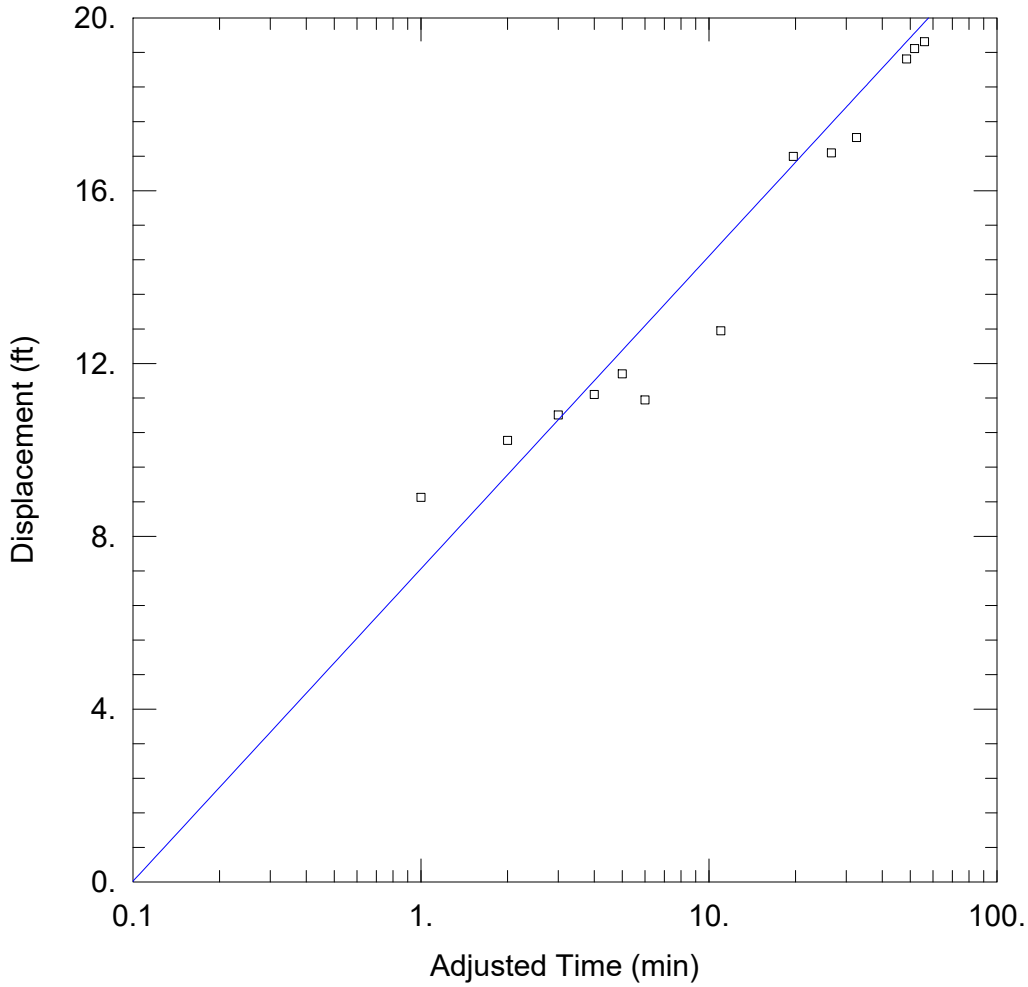
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-11S	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

T = 0.01748 cm^2/sec S = 0.0775



WELL TEST ANALYSIS

Data Set: C:\Users\hholt\Desktop\Aqtesolv\South Carlsbas CS\MW-11D.aqt
Date: 08/30/21 Time: 15:34:31

PROJECT INFORMATION

Company: Ensolum, LLC
Client: Enterprise Field Services, LLC
Project: 03B1226001
Location: South Carlsbad Compressor Sta.
Test Well: MW-11D
Test Date: 8/4/21

AQUIFER DATA

Saturated Thickness: 11. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-11D	0	0

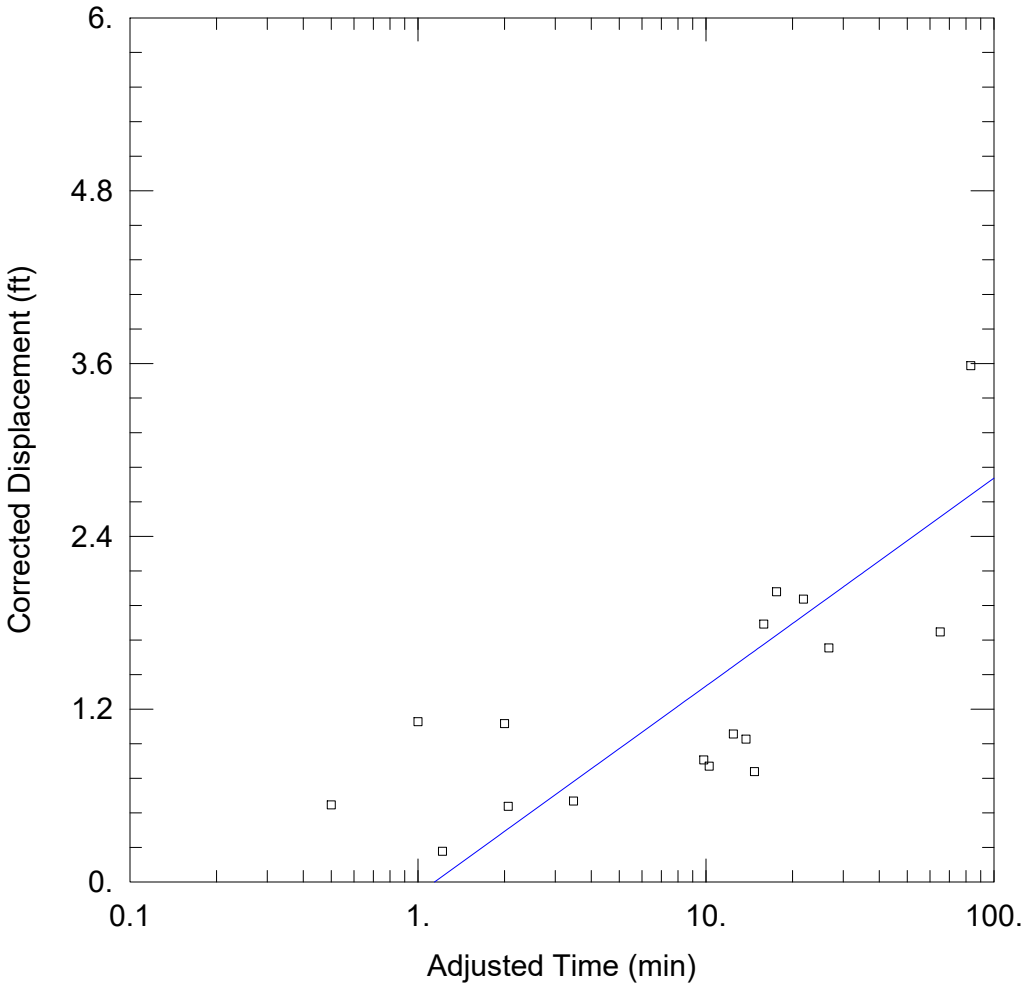
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-11D	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

T = 0.03932 cm^2/sec S = 0.002966



WELL TEST ANALYSIS

Data Set: C:\Users\hholt\Desktop\Aqtesolv\South Carlsbas CS\MW-12S.aqt
Date: 08/30/21 Time: 14:05:00

PROJECT INFORMATION

Company: Ensolum, LLC
Client: Enterprise Field Services, LLC
Project: 03B1226001
Location: South Carlsbad Compressor Sta.
Test Well: MW-12S
Test Date: 8/4/21

AQUIFER DATA

Saturated Thickness: 9.77 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-12S	0	0

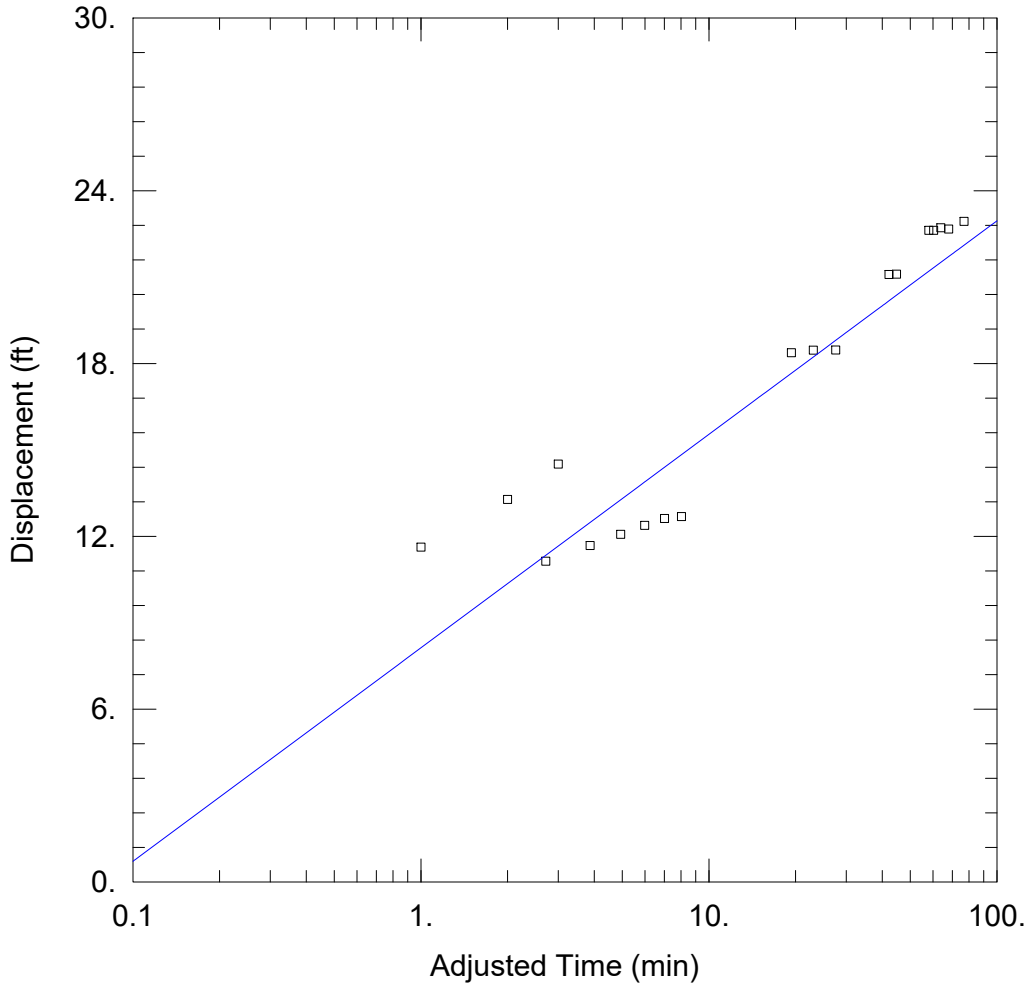
Observation Wells

Well Name	X (ft)	Y (ft)
MW-12S	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

T = 0.0184 cm^2/sec S = 0.04699



WELL TEST ANALYSIS

Data Set: C:\Users\hholt\Desktop\Aqtesolv\South Carlsbas CS\MW-12D.aqt
Date: 08/30/21 Time: 14:50:05

PROJECT INFORMATION

Company: Ensolum, LLC
Client: Enterprise Field Services, LLC
Project: 03B1226001
Location: South Carlsbad Compressor Sta.
Test Well: MW-12D
Test Date: 8/4/21

AQUIFER DATA

Saturated Thickness: 14. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-12D	0	0

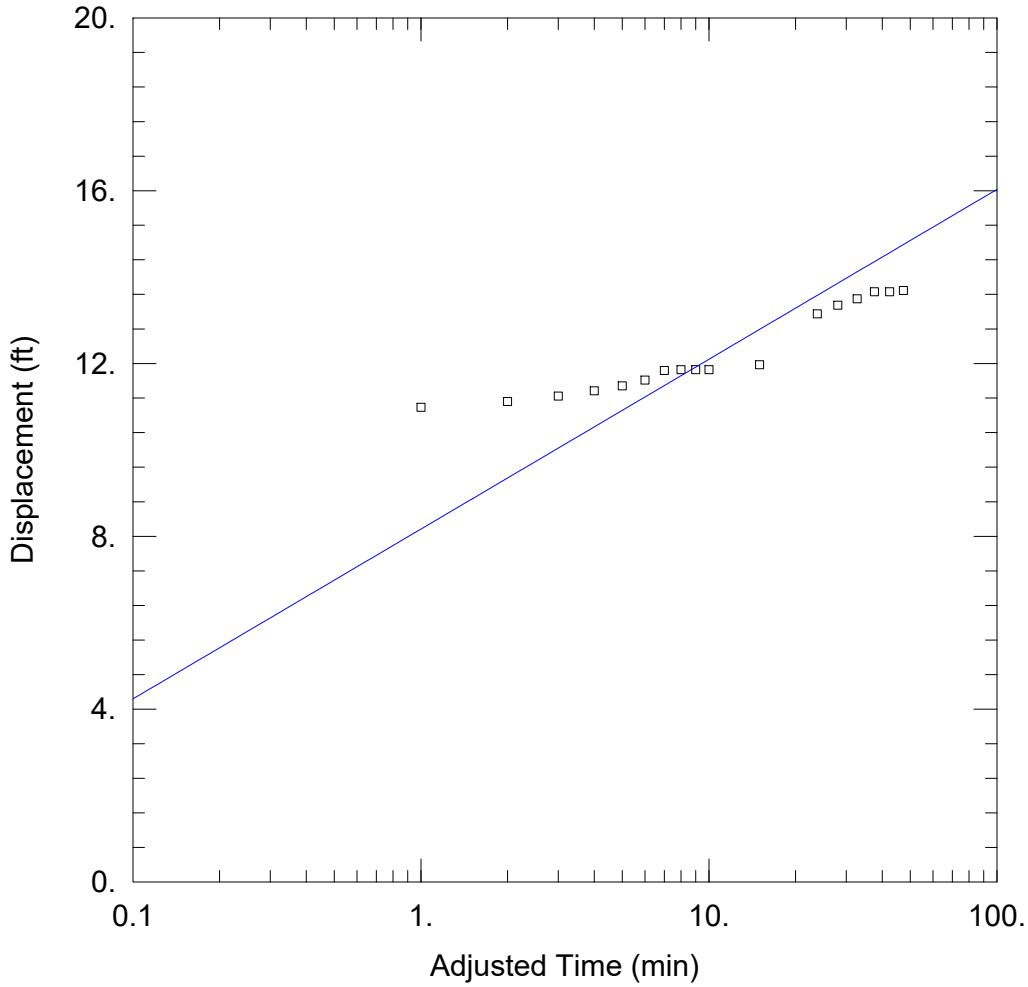
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-12D	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

T = 0.03581 cm^2/sec S = 0.002173



WELL TEST ANALYSIS

Data Set: C:\Users\hholt\Desktop\Aqtesolv\South Carlsbas CS\MW-13D.aqt
Date: 08/30/21 Time: 14:33:32

PROJECT INFORMATION

Company: Ensolum, LLC
Client: Enterprise Field Services, LLC
Project: 03B1226001
Location: South Carlsbad Compressor Sta.
Test Well: MW-13D
Test Date: 8/4/21

AQUIFER DATA

Saturated Thickness: 13. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-13D	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-13D	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

T = 0.0965 cm^2/sec S = 0.0006107

Assumptions for Cooper-Jacob Well Yield Estimate:

1.) Unconfined Aquifer
2.) 100% Well Efficiency
3.) 4-inch Diameter Well Screen

Well ID: MW-11S

Transmissivity (T): 0.01748 cm^2/sec

Saturated Thickness (b): 11.1 ft. or 338.3 cm

K = T/b
K = Hydraulic Conductivity (cm/sec)
T = Transmiisivity (cm^2/sec)
b = Saturated Thickness (cm)

$$K = \frac{0.01748 \ cm^2/sec}{338.328 \ cm}$$

K= 5.16658E-05 cm/sec

$$Q = \frac{(57{,}923)(K)(b^2)}{7.2+\log[(K)(b)]}$$

Q = 93.15 Gallons Per Day (gpd)

Well diameter correction = Q*1.10 (4-inch to 2-inch):

Q = Well Yield (gpd)
K = 5.16658E-05 cm/sec
b = 11.1 ft

Q = 102.46 gpd

Assumptions for Cooper-Jacob Well Yield Estimate:

1.) Confined Aquifer
2.) 100% Well Efficiency
3.) 4-inch Diameter Well Screen

Well ID: MW-11D

Transmissivity (T): 0.03932 cm^2/sec

Saturated Thickness (b): 11 ft. or 335.3 cm

K = T/b

K = Hydraulic Conductivity (cm/sec)

T = Transmiisivity (cm^2/sec)

b = Saturated Thickness (cm)

h_c = Confining head

$$K = \frac{0.03932 \ cm^2/sec}{335.28 \ cm}$$

K= 0.000117275 cm/sec

$$Q = \frac{(115{,}846)(h_c)(K)(b)}{10.2+\log[(K)(b)]}$$

Q = 531.50 Gallons Per Day (gpd)

Well diameter correction = Q*1.08 (4-inch to 2-inch):

Q = Well Yield (gpd)

Q = 574.02 gpd

K = 0.000117275 cm/sec

b = 11 ft

h_c = 26 ft

Assumptions for Cooper-Jacob Well Yield Estimate:

1.) Unconfined Aquifer
2.) 100% Well Efficiency
3.) 4-inch Diameter Well Screen

Well ID: MW-12S

Transmissivity (T): 0.0184 cm^2/sec

Saturated Thickness (b): 9.77 ft. or 297.8 cm

$K = T/b$

K = Hydraulic Conductivity (cm/sec)

T = Transmiisivity (cm^2/sec)

b = Saturated Thickness (cm)

$$K = \frac{0.0184 \ cm^2/sec}{297.7896 \ cm}$$

K= 6.17886E-05 cm/sec

$$Q = \frac{(57{,}923)(K)(b^2)}{7.2+\log[(K)(b)]}$$

Q = 85.82 Gallons Per Day (gpd)

Well diameter correction = Q*1.10 (4-inch to 2-inch):

Q = Well Yield (gpd)

K = 6.17886E-05 cm/sec

b = 9.77 ft

Q = 94.40 gpd

Assumptions for Cooper-Jacob Well Yield Estimate:

1.) Confined Aquifer

2.) 100% Well Efficiency

3.) 4-inch Diameter Well Screen

Well ID: MW-12D

Transmissivity (T): 0.03581 cm^2/sec

Saturated Thickness (b): 14 ft. or 426.7 cm

$K = T/b$

K = Hydraulic Conductivity (cm/sec)

T = Transmiisivity (cm^2/sec)

b = Saturated Thickness (cm)

h_c = Confining head

$$K = \frac{0.03581 \ cm^2/sec}{426.72 \ cm}$$

K= 8.39192E-05 cm/sec

$$Q = \frac{(115{,}846)(h_c)(K)(b)}{10.2+\log[(K)(b)]}$$

Q = 486.75 Gallons Per Day (gpd)

Well diameter correction = Q*1.08 (4-inch to 2-inch):

Q = Well Yield (gpd)

Q = 525.69 gpd

K = 8.39192E-05 cm/sec

b = 14 ft

h_c = 26 ft

Assumptions for Cooper-Jacob Well Yield Estimate:

1.) Confined Aquifer
2.) 100% Well Efficiency
3.) 4-inch Diameter Well Screen

Well ID: MW-13D

Transmissivity (T): 0.0965 cm^2/sec

Saturated Thickness (b): 13 ft. or 396.2 cm

$K = T/b$

K = Hydraulic Conductivity (cm/sec)

T = Transmiisivity (cm^2/sec)

b = Saturated Thickness (cm)

h_c = Confining head

$$K = \frac{0.0965 \ cm^2/sec}{396.24 \ cm}$$

K= 0.000243539 cm/sec

$$Q = \frac{(115{,}846)(h_c)(K)(b)}{10.2+\log[(K)(b)]}$$

Q = 1000.21 Gallons Per Day (gpd)

Well diameter correction = Q*1.08 (4-inch to 2-inch):

Q = Well Yield (gpd)

K = 0.000243539 cm/sec

b = 13 ft

h_c = 21 ft

Q = 1080.23 gpd

ENSOLUM

APPENDIX F

Disposal Documentation

WASTE MANAGEMENT
ENERGY SERVICES

Waste Management Energy Services
(Formerly Petro Waste LP)
153 Treeline Park, Ste 100, San Antonio, TX 78209
Phone: (210) 782-9534
Email: PWEAccountsReceivable@wm.com

MANIFEST # WT 567119

Part 1 - Generator

COMPANY TRACKING #: _____ DATE: 6-25-21

COMPANY NAME: Enterprise #1004-5033 PHONE: _____

LEASE: South Carlsbad Compressor Station WELL #: _____ FIELD NAME: _____

AFE#: _____ API#: 30-015-25391 8

RIG NAME: _____ RIG #: _____

COUNTY & STATE ORIGIN: Eddy / New Mexico

QUANTITY: _____ BBLS 12 YARDS

WASTE ORIGIN: ☐ Production ☐ Drilling ☑ Environmental ☐ Completions ☐ Commercial/Reclamation*

Waste Description (Check only one box): ☐ RCRA Exempt ☐ RCRA Non-Exempt*

☐ Water Based Cuttings	☐ Water Based Mud	☑ Contaminated Soil	☐ Produced Sands
☐ Oil Based Cuttings	☐ Oil Based Mud	☐ Non-injectable Fluids	☐ Pit Liners
☐ Other: _____		☐ Tank Bottoms*	☐ Injectable Fluids_____

*ALERT! RCRA Non-Exempt Waste and/or Commercial/Reclamation Facility Wastes will require analytical and pre-approval from WM prior to shipment. The reverse side of this manifest includes a summary of the RCRA Hazardous Waste exclusion for Exploration and Production wastes and applicable regulatory requirements under the Texas Railroad Commission.

Authorize Washout? Yes ☐ No ☑

PARTY TO BE INVOICED (CIRCLE ONE): Generator Solids Control Group Transporter

CERTIFICATION: I hereby certify that the above-described waste materials are generated only in Texas and are fully subject to the jurisdiction of the Railroad Commission of Texas (RRC). All waste shipped under this profile is Non-Hazardous due to regulatory exclusion under 40 CFR 261.4(b)(5), Subtitle C of the Resource Conservation and Recovery Act (RCRA) and has been fully and accurately described, classified, and packaged for transportation according to applicable laws and regulations. All information contained herein, and any/all attached documents are a true, complete, and accurate description of the waste material being offered for disposal and all necessary information has been provided to establish compliance with the RRC oil and gas regulations. The waste is not an RRC Oil and Gas NORM Waste (i.e., waste does not exceed 30 picocuries per gram of Radium-226 combined with Radium-228, or 150 picocuries per gram of any other radionuclide). Any change in information regarding the nature or character of the material offered for disposal (i.e., changes in the process or new analytical data) will be identified by the Generator or Authorized Agent and will be disclosed to Waste Management prior to providing the waste material to Waste Management.

GENERATOR: X _____ (Authorized Agent's Printed Name and Title)

SIGNATURE: X _____

GENERATOR EMAIL: _____

GENERATOR PHONE #: _____

SOLIDS CONTROL: _____ (Authorized Agent's Printed Name and Company Name)

SIGNATURE: _____

SOLID CNTL EMAIL: _____

SOLID CNTL PHONE #: _____

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE GENERATOR IS PRESENT

TRANSPORTER'S COMPANY NAME: Lighthouse Environmental LINER?: ☐ Yes ☑ No

YARD #: _____ WHP #: 4219 TRUCK #: 5106

ADDRESS: 4904 Fuqua St Houston TX TICKET #: _____ ROLL OFF BIN#: N/A TRAILER #: N/A

DATE RECEIVED: _____ TIME RECEIVED: _____ AM ☐ PM ☐ DISPATCHER NAME: Simon Hudgens DISPATCHER PHONE #: (469) 243 9571

The following statement must be signed by the truck driver prior to unloading at disposal facility: "I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE. I (TRANSPORTER) CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE."

DRIVER: Luis Puerta (Driver's Name Printed) DRIVER'S SIGNATURE: _____

Part 3 - Disposal Facility

TO BE COMPLETED BY WASTE MANAGMENT EMPLOYEES

FACILITY RECEIVED AT (Check One): DATE: 6-25-21 TIME IN: 1110 AM / PM

TIMEOUT: 1122 AM / PM

- ☐ Big Lake Facility (STF-0125): 275 E H Bar Rd, Big Lake, TX 76932
- ☐ Deep Six Facility (STF-0106): 935 U.S. Highway 285 South, Pecos, TX 79772
- ☐ Howard County Facility (STF-082): 11104 Interstate Hwy 20 West, Big Spring, TX 79720
- ☑ Orla Facility (STF-0101): 27 FM 652 West, Orla, TX 79770
- ☐ Reeves County Facility (STF-0133): 616 E Interstate 10 Service Road, Balmorhea, TX 79718

WASHOUT BY: _____ WASHOUT: TIME IN: _____ TIME OUT: _____

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A; TCLP: PASS FAIL N/A; TOX: PASS FAIL N/A

NORM TESTING _____ (Less than 50 MCR)

Shake Out:

	1	2	3
H_2O			
S			

Gallon Test: _____

Gross Weight: 47140

Tare Weight: 24520

Net Weight: _____

Net Tons: _____

Ticket Number: 34329

SERVICE NOTES: _____

This is to certify that: _____ (Employee (Printed Name)) *has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.*

EMPLOYEE SIGNATURE: _____

White Copy: Disposal Facility Yellow: Transporter Pink: Generator

WASTE MANAGEMENT
ENERGY SERVICES

Waste Management Energy Services
(Formerly Petro Waste LP)
153 Treeline Park, Ste 100, San Antonio, TX 78209
Phone: (210) 782-9534
Email: PWEAccountsReceivable@wm.com

MANIFEST #
WT 567119

Part 1 - Generator

COMPANY TRACKING #: _____ DATE: 6-25-21

COMPANY NAME: Enterprise #1004-5033 PHONE: _____

LEASE: South Carlsbad Compressor Station WELL #: _____ FIELD NAME: _____

AFE#: _____ API#: 30-015-25341

RIG NAME: _____ RIG #: 104

COUNTY & STATE ORIGIN: Eddy / New Mexico

QUANTITY: _____ BBLS 12 YARDS

WASTE ORIGIN: ☐ Production ☐ Drilling ☑ Environmental ☐ Completions ☐ Commercial/Reclamation*

Waste Description (Check only one box): ☐ RCRA Exempt ☐ RCRA Non-Exempt*

☐ Water Based Cuttings	☐ Water Based Mud	☑ Contaminated Soil	☐ Produced Sands
☐ Oil Based Cuttings	☐ Oil Based Mud	☐ Non-injectable Fluids	☐ Pit Liners
☐ Other: _____		☐ Tank Bottoms*	☐ Injectable Fluids _____

*ALERT! RCRA Non-Exempt Waste and/or Commercial/Reclamation Facility Wastes will require analytical and pre-approval from WM prior to shipment. The reverse side of this manifest includes a summary of the RCRA Hazardous Waste exclusion for Exploration and Production wastes and applicable regulatory requirements under the Texas Railroad Commission.

Authorize Washout? Yes ☐ No ☑

PARTY TO BE INVOICED (CIRCLE ONE): Generator Solids Control Group Transporter

CERTIFICATION: I hereby certify that the above-described waste materials are generated only in Texas and are fully subject to the jurisdiction of the Railroad Commission of Texas (RRC). All waste shipped under this profile is Non-Hazardous due to regulatory exclusion under 40 CFR 261.4(b)(5), Subtitle C of the Resource Conservation and Recovery Act (RCRA) and has been fully and accurately described, classified, and packaged for transportation according to applicable laws and regulations. All information contained herein, and any/all attached documents are a true, complete, and accurate description of the waste material being offered for disposal and all necessary information has been provided to establish compliance with the RRC oil and gas regulations. The waste is not an RRC Oil and Gas NORM Waste (i.e., waste does not exceed 30 picocuries per gram of Radium-226 combined with Radium-228, or 150 picocuries per gram of any other radionuclide). Any change in information regarding the nature or character of the material offered for disposal (i.e., changes in the process or new analytical data) will be identified by the Generator or Authorized Agent and will be disclosed to Waste Management prior to providing the waste material to Waste Management.

GENERATOR: X _____ (Authorized Agent's Printed Name and Title)

SIGNATURE: X _____

GENERATOR EMAIL: _____

GENERATOR PHONE #: _____

SOLIDS CONTROL: _____ (Authorized Agent's Printed Name and Company Name)

SIGNATURE: _____

SOLID CNTL EMAIL: _____

SOLID CNTL PHONE #: _____

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE GENERATOR IS PRESENT

TRANSPORTER'S COMPANY NAME: Lighthouse Environmental LINER?: ☐ Yes ☑ No

ADDRESS: 4904 Fuqua st Houston TX YARD #: _____ WHP #: 4219 TRUCK #: 5106

TICKET #: _____ ROLL OFF BIN#: N/A TRAILER #: N/A

DATE RECEIVED: _____ TIME RECEIVED: _____ AM ☐ PM ☐

DISPATCHER NAME: Simon Hudgens DISPATCHER PHONE #: (469) 243 9571

The following statement must be signed by the truck driver prior to unloading at disposal facility: "I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE. I (TRANSPORTER) CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE."

DRIVER: Luis Puerta (Driver's Name Printed) DRIVER'S SIGNATURE: _____

Part 3 - Disposal Facility

TO BE COMPLETED BY WASTE MANAGMENT EMPLOYEES

FACILITY RECEIVED AT (Check One): DATE: 6 25 21 TIME IN: 1:10 AM / PM

TIMEOUT: 1:22 AM / PM

- ☐ Big Lake Facility (STF-0125): 275 E H Bar Rd, Big Lake, TX 76932
- ☐ Deep Six Facility (STF-0106): 935 U.S. Highway 285 South, Pecos, TX 79772
- ☐ Howard County Facility (STF-082): 11104 Interstate Hwy 20 West, Big Spring, TX 79720
- ☑ Orla Facility (STF-0101): 27 FM 652 West, Orla, TX 79770
- ☐ Reeves County Facility (STF-0133): 616 E Interstate 10 Service Road, Balmorhea, TX 79718

WASHOUT BY: _____

WASHOUT: TIME IN: _____ TIME OUT: _____

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A; TCLP: PASS FAIL N/A; TOX: PASS FAIL N/A

NORM TESTING: _____ (Less than 50 MCR)

Shake Out:	1	2	3
H_2O	10		
S	90		

Gallon Test: 6

Gross Weight: 47340
Tare Weight: 20520
Net Weight: _____
Net Tons: _____
Ticket Number: 34733

SERVICE NOTES: _____

This is to certify that: _____ (Employee (Printed Name)) *has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.*

EMPLOYEE SIGNATURE: _____

White: Disposal Facility Yellow: Transporter Pink: Generator

WM WASTE MANAGEMENT
ENERGY SERVICES

Waste Management Energy Services
(Formerly Petro Waste LP)
153 Treeline Park, Ste 100, San Antonio, TX 78209
Phone: (210) 782-9534
Email: PWEAccountsReceivable@wm.com

MANIFEST #
WT 567119

Part 1 - Generator

COMPANY TRACKING #:
COMPANY NAME: Enterprise # ~~1004 5033~~
LEASE: South Carlsbad Compressor Station WELL #:
AFE#: API#: 30-015-25341-00-00
RIG NAME: RIG #: 104851004
COUNTY & STATE ORIGIN: Eddy / New Mexico

DATE: 6-25-21
PHONE:
FIELD NAME:

QUANTITY: BBLS 12 YARDS
WASTE ORIGIN: ☐ Production ☑ Environmental ☐ Drilling ☐ Completions ☐ Commercial/Reclamation*

Waste Description (Check only one box): ☐ RCRA Exempt ☐ RCRA Non-Exempt*

☐ Water Based Cuttings ☐ Water Based Mud ☑ Contaminated Soil ☐ Produced Sands
☐ Oil Based Cuttings ☐ Oil Based Mud ☐ Non-injectable Fluids ☐ Pit Liners
☐ Other: ☐ Tank Bottoms* ☐ Injectable Fluids

*ALERT! RCRA Non-Exempt Waste and/or Commercial/Reclamation Facility Wastes will require analytical and pre-approval from WM prior to shipment. The reverse side of this manifest includes a summary of the RCRA Hazardous Waste exclusion for Exploration and Production wastes and applicable regulatory requirements under the Texas Railroad Commission.

Authorize Washout? Yes ☐ No ☑

PARTY TO BE INVOICED (CIRCLE ONE): Generator Solids Control Group Transporter

CERTIFICATION: I hereby certify that the above-described waste materials are generated only in Texas and are fully subject to the jurisdiction of the Railroad Commission of Texas (RRC). All waste shipped under this profile is Non-Hazardous due to regulatory exclusion under 40 CFR 261.4(b)(5), Subtitle C of the Resource Conservation and Recovery Act (RCRA) and has been fully and accurately described, classified, and packaged for transportation according to applicable laws and regulations. All information contained herein, and any/all attached documents are a true, complete, and accurate description of the waste material being offered for disposal and all necessary information has been provided to establish compliance with the RRC oil and gas regulations. The waste is not an RRC Oil and Gas NORM Waste (i.e., waste does not exceed 30 picocuries per gram of Radium-226 combined with Radium-228, or 150 picocuries per gram of any other radionuclide). Any change in information regarding the nature or character of the material offered for disposal (i.e., changes in the process or new analytical data) will be identified by the Generator or Authorized Agent and will be disclosed to Waste Management prior to providing the waste material to Waste Management.

GENERATOR: X
(Authorized Agent's Printed Name and Title)
SIGNATURE: X
GENERATOR EMAIL:
GENERATOR PHONE #:

SOLIDS CONTROL:
(Authorized Agent's Printed Name and Company Name)
SIGNATURE:
SOLID CNTL EMAIL:
SOLID CNTL PHONE #:

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE GENERATOR IS PRESENT

TRANSPORTER'S COMPANY NAME: Lighthouse Environmental
ADDRESS: 4904 Fuqua st Houston TX
LINER?: ☐ Yes ☑ No
YARD #:
TICKET #:
WHP #: 4219 TRUCK #: 5106
ROLL OFF BIN#: N/A TRAILER #: N/A
DATE RECEIVED: TIME RECEIVED: AM ☐ PM ☐
DISPATCHER NAME: Simon Hudgens DISPATCHER PHONE #: (469) 243 9571

The following statement must be signed by the truck driver prior to unloading at disposal facility: "I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE. I (TRANSPORTER) CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE."

DRIVER: Luis Puerta
(Driver's Name Printed)
DRIVER'S SIGNATURE:

Part 3 - Disposal Facility

TO BE COMPLETED BY WASTE MANAGMENT EMPLOYEES

FACILITY RECEIVED AT (Check One):
☐ Big Lake Facility (STF-0125): 275 E H Bar Rd, Big Lake, TX 76932
☐ Deep Six Facility (STF-0106): 935 U.S. Highway 285 South, Pecos, TX 79772
☐ Howard County Facility (STF-082): 11104 Interstate Hwy 20 West, Big Spring, TX 79720
☑ Orla Facility (STF-0101): 27 FM 652 West, Orla, TX 79770
☐ Reeves County Facility (STF-0133): 616 E Interstate 10 Service Road, Balmorhea, TX 79718

DATE: 6 25 21
TIME IN: 1 10 AM / PM
TIMEOUT: 1 22 AM / PM
WASHOUT BY:
WASHOUT: TIME IN: TIME OUT:

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A
TCLP: PASS FAIL N/A
TOX: PASS FAIL N/A

NORM TESTING: Pass (Less than 50 MCR)

Shake Out:	1	2	3
H_2O	10		
S	90		

Gallon Test: 6

Gross Weight: 47340
Tare Weight: 25520
Net Weight:
Net Tons:
Ticket Number: 30733

SERVICE NOTES:

This is to certify that: _____ (Employee (Printed Name)) has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE:

White Copy: Disposal Facility Yellow: Transporter Pink: Generator

WASTE MANAGEMENT

Orla Landfill
27 FM 652 West
Orla, TX, 79770
Ph: 432-245-0880

Original
Ticket# 34733

Customer Name:	LIGHTHOUSEENVIROSERVICES_EHS LIGHTHOUSE ENVIRO SERVICES INC
Ticket Date:	06/25/2021
Payment Type:	Credit Account
Manifest:	WT 567119
Billing#:	0000161
AFE#:	
Manual Ticket#:	
Norm:	NORM PASS
Paint Filter:	PAINT FILTER FAIL
Destination:	N/A - Environmental
PO#:	

1004-5033

Carrier:	4219 LIGHTHOUSE ENVIRO SERVICES INC
Vehicle#:	TRK 5106 V8 CY Volume 8.0
Hauling Ticket#:	
Container:	

	Time	Scale	Operator			
In	06/25/2021 13:10:49	Inbound	rrodri61	Inbound	Gross	47340 lb
Out	06/25/2021 13:23:12	Outbound	rrodri61		Tare	20520 lb
					Net	26820 lb
					Tons	13.41

Comments

Product Origin GPS/Coordinates Needed In Comments

	Product	LD%	Qty	UOM	Origin
1	Contam Soil (CYD)-Contaminated Soil (CYD)	100	12.00	Yards	GPS
2	WWM-P650-Waste Water Management - 6.50% (Landfill)	100		%	
3	EVF-P6-Environmental Fee - Percent (Landfill)	100		%	

Driver`s Signature

Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS GP, LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

June 10, 2024

Submitted online via OCD E-Permitting:
https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/default.aspx

Mr. Michael Buchanan
New Mexico Energy, Mineral & Natural Resources
Department of Oil Conservation
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Submittal1: ***2023 Supplemental Corrective Action Report*** (Ensolum, April 15, 2024)
Submittal2: ***2022 Supplemental Corrective Action Report*** (Ensolum, March 1, 2024)
Submittal3: ***2021 Supplemental Corrective Action Report*** (Ensolum, November 27, 2023)
RE: Enterprise Field Services, LLC
South Carlsbad Compressor Station – 2009 Condensate Release
Carrasco Road and CR 710, Carlsbad, Eddy Co., NM [32.313436° N, 104.136360° W]
NMOCD Incident ID: nAPP2134932726

Dear Mr. Buchanan:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to submit to the New Mexico Oil Conservation Department (OCD) one electronic copy (online via OCD E-Permitting) of the above-referenced documents (Submittal1, Submittal2, and Submittal3, collectively "Submittals") prepared by Ensolum, LLC (Ensolum). The Submittals are associated with the historical release(s) of natural gas condensate (and/or produced liquids) that was discovered during the decommissioning of on-site aboveground storage tanks (ASTs) in November 2009. Activities detailed in Submittals include monitoring well plugging and abandonment (P&A), groundwater monitoring & sampling activities (GWM&S), and phase-separated hydrocarbon (PSH) recovery (intermittent corrective actions) at the above-referenced location (Site).

Submittal1 summarizes on-site activities that occurred between January 1, 2023 and December 31, 2023 ("reporting period" for Submittal1), Submittal2 summarizes on-site activities conducted between January 1, 2022 and December 31, 2022 ("reporting period" for Submittal2), and Submittal3 summarizes on-site activities conducted between January 1, 2021 and December 31, 2021 ("reporting period" for Submittal3). During each reporting period, on-going GWM&S activities were continued to evaluate the magnitude and stability of PSH dissolved-phase hydrocarbon (DPH) plumes in groundwater.

Based on the groundwater aquifer characterization and sampling results of the nested monitoring wells (MW-12S/D and MW-13S/D) installed in 2021, it appears that impacts to the lower confining unit is the result of monitoring well MW-1 being screened across both groundwater-bearing units (GWBU's). On December 15, 2022, monitoring wells MW-1, MW-7, and MW-10 were P&A to prevent any further migration of impacts into the lower confining unit.

Based on the data contained within the attached Submittals, as of December 6, 2023, constituents of concern (COCs) concentrations remain above applicable New Mexico Water Quality Control Commission Groundwater Quality (NMWQCC) standards in at least 2 on-site monitoring wells (MW-11S and MW-12S). Measurable PSH has been consistently observed in monitor wells MW-2 and MW-13S throughout the reporting periods, with maximum thicknesses of 18.26 feet (MW-2, August 2023) and 1.87 feet (MW-13S, August 2021), respectively.

Based on the results contained in the attached Submittals, Enterprise proposes to: 1) continue utilizing pneumatic recovery systems located at monitoring wells MW-2 and MW-13S to remove PSH; 2) continue quarterly GWM&S to further evaluate PSH and DPH plume stability in groundwater; and, 3) evaluate remedial options to expedite Site closure.

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments, or concerns, or require additional information, please contact Scott Drewry via email (sdrewry@eprod.com) or phone (713-381-5696), or our project consultant Beaux Jennings (bjennings@ensolum.com) with Ensolum.

Sincerely,

Jon E. Fields
Director, Field Environmental

ec: NMOCD, Santa Fe - Michael Buchanan < Michael.Buchanan@emnrd.nm.gov >
NMOCD, Artesia, District 2 - Mike Bratcher < Mike.Bratcher@emnrd.nm.gov >
Ensolum – Marc Gentry < mgentry@ensolum.com >
Ensolum – Beaux Jennings < bjennings@ensolum.com >

ENSOLUM

2022 SUPPLEMENTAL CORRECTIVE ACTION REPORT

Property:

South Carlsbad Compressor Station
Carrasco Road and CR 710
Eddy County, New Mexico
32.313436° N, 104.136360° W
NMCOD Incident ID: nAPP2134932726

March 1, 2024
Ensolum Project No. 03B1226001

Prepared for:

Enterprise Field Services LLC
PO Box 4324
Houston, TX 77210
Attention: Mr. Jon E. Fields

Prepared by:

Beaux Jennings
Senior Project Manager

Heather Holthaus
Senior Project Manager

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2022 SUPPLEMENTAL CORRECTIVE ACTION REPORT

South Carlsbad Compressor Station
Carrasco Road and CR 710
Eddy County, New Mexico
32.313436° N, 104.136360° W
NMOCD Incident ID: nAPP2134932726

Ensolum Project No. 03B1226001

1.0 EXECUTIVE SUMMARY

Ensolum, LLC (Ensolum), has completed this 2022 Supplemental Corrective Action Report for the Enterprise Field Services LLC (Enterprise) South Carlsbad Compressor Station located at the northwest corner of Carrasco Road and County Road (CR) 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico [SE1/4 of SE1/4 of S12, T23S, R27E], referred to hereinafter as the "Site" or "subject Site." The Site is currently utilized as a natural gas compressor station.

Specific details regarding groundwater monitoring are further explained in the following sections and should be read to fully comprehend the extent of the groundwater monitoring and results. In addition, findings and recommendations are included in this executive summary for convenience; however, the remaining text of the report and associated appendices should also be reviewed for a complete understanding of the report.

- During the March, May, August and November 2022 groundwater monitoring events, 16 monitoring wells (MW-1 through MW-10, MW-11S/D, MW-12S/D, and MW-13S/D) were monitored to evaluate chemicals of concern (COCs) in groundwater.

- During the March, May, August, and November 2022 groundwater monitoring events, measurable phase separated hydrocarbons (PSH) was identified in monitoring wells MW-1, MW-2, and MW-13S; and during the March, August, and November 2022 groundwater monitoring events, measurable PSH was identified in monitoring well MW-10.

- Groundwater samples were collected from monitoring wells not exhibiting the presence of PSH and were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) / diesel range organics (DRO) / motor/lube oil range organics (MRO). It should be noted that the New Mexico Water Quality Control Commission (NMWQCC) has not established a protection limit for TPH GRO/DRO/MRO in groundwater.

- Ensolum compared the BTEX, and TPH GRO/DRO/MRO concentrations or laboratory sample detection limits (SDLs) associated with the groundwater samples collected from the monitoring wells MW-3 through MW-10, MW-11S/D, MW-12S/D, and MW-13D to the NMWQCC Groundwater Quality Standards, referred to hereinafter as the "NMWQCC Standards".

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- **During the March 2022 sampling event, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-11D, MW-12S, and MW-12D exhibited a benzene concentration of 0.0638 milligrams per liter (mg/L), 0.807 mg/L, 0.0123 mg/L, 0.800 mg/L, and 0.178 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the May 2022 sampling event, the groundwater samples collected from monitoring wells MW-11S, MW-12S, and MW-12D exhibited a benzene concentration of 0.790 mg/L, 1.34 mg/L, and 0.0276 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L. The groundwater sample collected from monitoring well MW-11S exhibited a total xylene concentration of 0.625 mg/L, which exceeds the NMWQCC Standard of 0.62 mg/L.**

- **During the August 2022 sampling event, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-12S, and MW-12D exhibited a benzene concentration of 0.0723 mg/L, 0.864 mg/L, 1.09 mg/L, and 0.00694 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the November 2022 sampling event, the groundwater samples collected from monitoring wells MW-5, MW-9, MW-11S, MW-11D, and MW-12S exhibited a benzene concentration of 0.00573 mg/L, 0.0417 mg/L, 1.07 mg/L, 0.0076 mg/L, and 1.42 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the most recent gauging event (November 2022), the monitoring wells MW-1, MW-2, MW-10 and MW-13S contained 3.20 feet, 12.50 feet, 0.67 feet and 1.47 feet of PSH, respectively.**

- **PSH will continue to be recovered utilizing two (2) pneumatic recovery systems in monitoring wells MW-2 and MW-13S to remove free-standing product from each monitoring well.**

- **Based on the groundwater sampling results of the nested monitoring well MW-11S/D, MW-12S/D and MW-13S/D, it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both groundwater-bearing units (GWBU's).**

- **On December 15, 2022, monitoring wells MW-1, MW-7 and MW-10 were plugged and abandoned (P&A) to prevent any further migration of impacts into the lower confining unit.**

Based on the sampling activities and laboratory analytical results, additional investigation and/or remediation appears warranted at this time.

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2.0 INTRODUCTION

2.1 Site Description & Background

The Enterprise South Carlsbad Compressor Station is located at the northwest corner of Carrasco Road and CR 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico [SE1/4 of SE1/4 of S12, T23S, R27E].

The Site is currently an operational natural gas compressor station, which formerly included a tank battery on the south/southwestern portion of the property. The tank battery system included four (4) 300-barrel aboveground storage tanks (ASTs) within two (2) earthen berm containment systems. The ASTs contained natural gas condensate or produced liquids separated from the natural gas stream processed at the Site. During the decommissioning activities of the former tank battery, Enterprise personnel identified stained soils indicative of a historical leak.

Between September 16 and December 9, 2019, supplemental site investigation activities were conducted by Ensolum to investigate a potential confined GWBU at the Site. As part of the approved scope of work, one (1) nested monitoring well (MW-11 (S/D)) was advanced to a total depth of 40 feet below ground surface (bgs). The monitoring well was advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. The soil samples were collected continuously from soil cuttings in one or two-foot intervals to the terminus depth of the soil boring. Due to the observed confined GWBU at the Site, the nested well was installed to confirm that there is no communication between the upper and lower GWBU and was advanced in the vicinity of the previously installed monitoring well (MW-1).

On June 14 through June 16, 2021, two (2) nested monitoring wells (MW-12 (S/D) and MW-13 (S/D)) were advanced in the vicinity of the previously installed monitoring wells MW-1 and MW-2, respectively, to a total depth of 40 feet bgs to confirm that there was no communication between the upper and lower GWBU. The nested monitoring wells were advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. Up to four (4) soil samples were collected from each monitoring well location based upon the highest photoionization detector (PID) reading, capillary fringe zone, change in lithology, or the terminus of the monitoring well.

Petroleum hydrocarbon odors were detected in the soil cuttings collected from soil boring MW-12 at depths ranging from the surface to 22 feet bgs and from soil boring MW 13 at depths ranging from the surface to 18 feet bgs. PID readings were detected in all soil samples collected from the soil boring MW-12S (7’-8’), MW-12S (20’-21’), MW-12S (21’-22’), and MW-12D (28’-29’). PID readings were detected in all soil samples collected from the soil boring MW-13S (7’-8’), MW-13S (19’-20’), and MW-13D (29’-30’). Soil sample MW-12S (7’-8’) and soil sample MW-13 (7’-8’) exhibited the highest PID readings at 4,527 parts per million (ppm) and 3.4 ppm respectively.

As proposed in the *Stage 1 Abatement Plan* dated June 1, 2020, groundwater sampling was conducted on a quarterly basis in 2022. On March 1, May 25, August 23, and November 8, 2022, samples were collected from 13 monitoring wells (MW-3 through MW-10, MW-11S/D, MW-12S/D, and MW-13D, with the exception of MW-10 in March, August and November due to the presence of PSH in the monitoring well) to evaluate COCs in the on-Site groundwater.

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Based on the groundwater sampling results of the nested monitoring well MW-11S/D, MW-12S/D and MW-13S/D, it appears that the lower confining unit has been impacted due to monitoring well MW-1 and MW-10 being screened across both GWBU's. Monitoring wells MW-1, MW-7 and MW-10 were P&A in December 2022 to prevent any further migration of impacts into the lower confining unit.

A Topographic Map depicting the location of the Site is included as **Figure 1**, and a Site Vicinity Map is included as **Figure 2** in **Appendix A**.

2.2 Project Objective

The objective of the sampling activities was to evaluate the presence, magnitude, and extent of COCs in the groundwater and to compare the results to the NMWQCC Standards.

The objectives of Ensolum's scope of services were to:

1) Collect groundwater samples from the monitoring wells (MW-3 through MW-10, MW-11S/D, MW-12S/D, and MW-13D) installed at the Site;
2) Summarize findings of the groundwater samples collected on-Site;
3) Describe the nature of the groundwater gradient on-Site; and
4) Summarize the findings of the groundwater sampling events and recommendations concerning further action, if necessary.

2.3 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

2.4 Additional Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

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2.5 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Ensolum's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

3.0 SITE CHARACTERIZATION

3.1 Geology & Hydrogeology

The Site is located on the western side of the Pecos River Valley. The valley contains the only occurrence of the Gatuna formation of Pleistocene and Tertiary age. In the area of Carlsbad and Loving, New Mexico, the Gatuna formation is as much as 100 meters above the Pecos River floodplain on the east side of the river and only about 30 meters on the west side. Its base is on Permian or Triassic rocks when exposed, but for the most part is buried by floodplain, terrace, caliche or aeolian deposits (Kelley, 1980). In general, the Gatuna formation consists of moderate reddish-orange, friable sandstone, siltstone, and conglomerate, but may locally include gypsum, gray shale, and claystone.

The Gatuna formation may be up to 100 feet thick locally (Vine, 1963). The overburden of the formation at the Site appears to be floodplain deposits ranging in thickness up to eight (8) feet thick. The regional groundwater gradient in the area is to the east toward the Pecos River. Based on soil borings and monitoring wells installed at the Site, it is apparent that the Gatuna formation is saturated and appears to be unconfined. However, recent data suggests that confining or semi confining conditions may also be present. The local hydraulic gradient appears to be dependent on local precipitation events controlling the hydraulic gradient at the Site. The depth to groundwater ranges from approximately six (6) to nine (9) feet below ground surface (bgs) at an approximate elevation of 3,057 feet above mean sea level (AMSL).

4.0 RESPONSE ACTIONS

4.1 Product Recovery

On August 4, 2021, Ensolum staged a 200-gallon poly tank with a solar battery operated PSH recovery pump for monitoring well MW-13S between monitoring well MW-2 and MW-13S for product recovery from both monitoring wells. On September 30, 2021, Ensolum installed the PSH recover pump into monitoring well MW-13S and began product recovery. Monitoring well MW-2 was subsequently tied into the 200-gallon poly tank recovery system.

From January 25 to December 15, 2022, monthly pumping operation and maintenance (O&M) was performed on monitoring well MW-2 and MW-13S.

Enterprise personnel periodically emptied the 200-gallon poly tank utilizing a vacuum truck on an as needed basis. The recovered PSH is taken off-Site to a state approved disposal facility.

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4.2 Waste Management

Recovered groundwater and PSH are temporarily stored on-Site in a 200-gallon poly staged next to monitoring wells MW-13(S/D) and MW-2. Enterprise personnel utilized a vac-truck to transfer PSH/water stored in the 200-gallon poly tank for proper disposal. Purge water from quarterly groundwater monitoring activities is stored in the 200-gallon poly prior to disposal.

5.0 SITE INVESTIGATION

5.1 Groundwater Sampling Program

Ensolum's groundwater sampling program included the collection of 13 samples from the monitoring wells installed at the Site (MW-3 through MW-10, MW-11S/D, MW-12S/D, and MW-13D). One groundwater sample was collected from each monitoring well during each of the semi-annual sampling events. Monitoring wells that exhibited measurable PSH at the time of groundwater monitoring were not sampled. Groundwater samples were collected utilizing low-flow minimal drawdown techniques. The monitoring wells were purged until groundwater was consistent in color, clarity, pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature and conductivity. The groundwater sample analytical results are included in **Table 3** and **Table 5** of **Appendix B**.

6.0 LABORATORY ANALYTICAL METHODS

6.1 Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells were analyzed for TPH GRO/DRO/MRO utilizing Environmental Protection Agency (EPA) Method SW-846 #8015M and BTEX utilizing EPA Method SW-846 #8021B. Laboratory results are summarized in **Table 3** of **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

6.2 Quality Assurance/Quality Control (QA/QC)

Sampling and analytical techniques have been identified in the text above and conform with the references identified in Subsection B of 20.6.2.3107 New Mexico Administrative Code (NMAC) and with 20.6.4.14 NMAC of the water quality standards for interstate and intrastate surface waters in New Mexico.

Groundwater samples were collected in laboratory prepared glassware and placed on ice in a cooler, which was secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Eurofins Midland laboratories in Midland, Texas for normal turn-around results.

Eurofins performed the analyses of samples under an adequate and documented quality assurance program to meet the project and data quality objectives. The laboratory's quality assurance program is generally consistent with the quality standards outlined in the National Environmental Laboratory Accreditation Program, as amended. In addition, the data generated by Eurofins meets the interlaboratory performance standards for the selected analytical method and the performance standards are sufficient to meet the bias, precision, sensitivity, representativeness, and completeness, as specified in the project data quality objectives.

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7.0 DATA EVALUATION

7.1 Monitoring Well Gauging

The on-Site monitoring wells were surveyed in for top-of-casing (TOC) AMSL elevations. Groundwater measurements were collected utilizing a water level meter and/or interface probe capable of detecting the presence of water and/or PSH up to an accuracy of 0.01 feet. Groundwater measurements were collected during gauging events performed on March 1, May 24, August 22/24, and November 8, 2022.

PSH was observed in monitoring wells MW-1, MW-2, MW-10 and MW-13S during the most recent gauging event, November 8, 2022, at thicknesses of 3.20 feet, 12.50 feet, 0.67 feet and 1.47 feet of PSH, respectively. Groundwater/PSH measurements collected during the gauging events are presented with TOC elevations and corrected groundwater elevations in **Table 4** of **Appendix B.** Groundwater gradient maps for the gauging events are included as **Figure 4A** through **Figure 4D** of **Appendix A.**

7.2 Monitoring Well Groundwater Samples

Prior to sample collection, Ensolum gauged the depth to groundwater/PSH utilizing a water level indicator and/or interface probe capable of detecting water and/or PSH up to 0.01 feet. During one or more of the gauging events, measurable PSH was observed in monitoring wells MW-1, MW-2, MW-10, and MW-13S.

Ensolum compared the BTEX and TPH GRO/DRO/MRO concentrations or laboratory SDLs associated with the groundwater samples collected to the New Mexico Water Quality Control Commission Groundwater Quality Standards, referred to hereinafter as the "NMWQCC Standards". The results of the groundwater sample analysis along with the respective NMWQCC Standards are provided in **Table 3** of **Appendix B**.

It should be noted that the NMWQCC has not established a protection limit for TPH GRO/DRO/MRO in groundwater. A groundwater sample was not collected from monitoring wells MW-1, MW-2, or MW-13S during any of the sampling events due to the presence of PSH, or from monitoring well MW-10 in March, August, and November 2022 due to the presence of PSH. Maps indicating the approximate location of groundwater COCs in relation to pertinent land features and on-Site improvements for the March, May, August and November 2022 sampling events are included as **Figure 5A** through **Figure 5D** in **Appendix A**.

Total Petroleum Hydrocarbons

During each of the sampling events, the groundwater samples collected from monitoring wells MW-3 through MW-9, MW-11D, MW-12D, and MW-13D did not exhibit TPH GRO/DRO/MRO concentrations above the laboratory SDLs. The groundwater sample collected from monitoring well MW-10 during the May 2022 event did not exhibit TPH GRO/DRO/MRO concentrations above the laboratory SDLs.

Based on the laboratory analytical results, the groundwater samples collected from monitoring wells MW-11S and MW-12S exhibited TPH GRO/DRO/MRO concentrations ranging from 5.06 mg/L to 21.5 mg/L.

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The NMWQCC has not established a protection limit for TPH GRO/DRO/MRO in groundwater. However, these compounds can be evaluated to assess the presence of dissolve-phase hydrocarbons in groundwater.

Benzene, Toluene, Ethylbenzene and Xylenes

During each of the sampling events, the groundwater samples collected from monitoring wells MW-3, MW-4, MW-6 through MW-8, and MW-13D did not exhibit BTEX concentrations above the laboratory SDLs and/or the applicable NMWQCC Standards. The groundwater samples collected from monitoring well MW-5 during the March, May, and September 2022 sampling events did not exhibit BTEX concentrations above the laboratory SDLs, which are below the applicable NMWQCC Standards. The groundwater samples collected from monitoring wells MW-9 and MW-10 during the May 2022 sampling event did not exhibit BTEX concentrations above the laboratory SDLs and/or the applicable NMWQCC Standards. The groundwater samples collected from monitoring well MW-11D during the May and August 2022 sampling events did not exhibit BTEX concentrations above the laboratory SDLs and/or the applicable NMWQCC Standards. The groundwater sample collected from monitoring well MW-12D during the November 2022 sampling event did not exhibit BTEX concentrations above the laboratory SDLs and/or the applicable NMWQCC Standards.

During the most recent sampling event (November 2022), the groundwater samples collected from monitoring wells MW-5, MW-9, MW-11S, MW-11D, and MW-12S exhibited a benzene concentration of 0.00573 mg/L, 0.0417 mg/L, 1.07 mg/L, 0.0076 mg/L, and 1.42 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.

During the most recent gauging event (November 2022), monitoring wells MW-1, MW-2, MW-10 and MW-13S contained 3.20 feet, 12.50 feet, 0.67 feet and 1.47 feet of PSH, respectively.

The next Site-wide groundwater gauging and sampling event is scheduled for February 2023.

The laboratory analytical results for groundwater are summarized in **Table 3** of **Appendix B**. Groundwater COC Concentration Maps for each of the sampling events are included in **Appendix A** as **Figures 5A** through **5D**.

7.3 Plugging and Abandonment Activities

Based on the groundwater sampling results of the nested monitoring well MW-11S/D, MW-12S/D and MW-13S/D, it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both GWBU's. On December 15, 2022, monitoring wells MW-1, MW-7 and MW-10 were P&A to prevent any further migration of impacts into the lower confining unit. The decommissioning activities were completed in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC. The Office of the State Engineer (OSE) approved Well Plugging Plan of Operations (Form WD-08) is included in **Appendix D**.

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Received by OCD: 6/10/2024 12:12:43 PM

8.0 FINDINGS AND RECOMMENDATIONS

Ensolum has completed this *2022 Supplemental Corrective Action Report* for the South Carlsbad Compressor Station, located at the northwest corner of Carrasco Road and CR 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico, and covers response actions from January through December 2022. The objective of the groundwater sample collection was to further evaluate the presence, magnitude, and extent of BTEX and TPH GRO/DRO/MRO in on-site groundwater as a result of historical releases.

- **During the March 2022 sampling event, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-11D, MW-12S, and MW-12D exhibited a benzene concentration of 0.0638 mg/L, 0.807 mg/L, 0.0123 mg/L, 0.800 mg/L, and 0.178 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the May 2022 sampling event, the groundwater samples collected from monitoring wells MW-11S, MW-12S, and MW-12D exhibited a benzene concentration of 0.790 mg/L, 1.34 mg/L, and 0.0276 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L. The groundwater sample collected from monitoring well MW-11S exhibited a total xylene concentration of 0.625 mg/L, which exceeds the NMWQCC Standard of 0.62 mg/L.**

- **During the August 2022 sampling event, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-12S, and MW-12D exhibited a benzene concentration of 0.0723 mg/L, 0.864 mg/L, 1.09 mg/L, and 0.00694 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the November 2022 sampling event, the groundwater samples collected from monitoring wells MW-5, MW-9, MW-11S, MW-11D, and MW-12S exhibited a benzene concentration of 0.00573 mg/L, 0.0417 mg/L, 1.07 mg/L, 0.0076 mg/L, and 1.42 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the most recent gauging event (November 2022), the monitoring wells MW-1, MW-2, MW-10 and MW-13S contained 3.20 feet, 12.50 feet, 0.67 feet and 1.47 feet of PSH, respectively.**

- **PSH will continue to be recovered utilizing two (2) pneumatic recovery systems in monitoring wells MW-2 and MW-13S to remove free-standing product from each monitoring well.**

- **Based on the groundwater sampling results of the nested monitoring well MW-11S/D, MW-12S/D and MW-13S/D, it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both GWBU's.**

- **On December 15, 2022, monitoring wells MW-1, MW-7 and MW-10 were P&A to prevent any further migration of impacts into the lower confining unit.**

Based on the on-Site assessment activities and laboratory analytical results, additional investigation and/or remediation appears warranted at this time.

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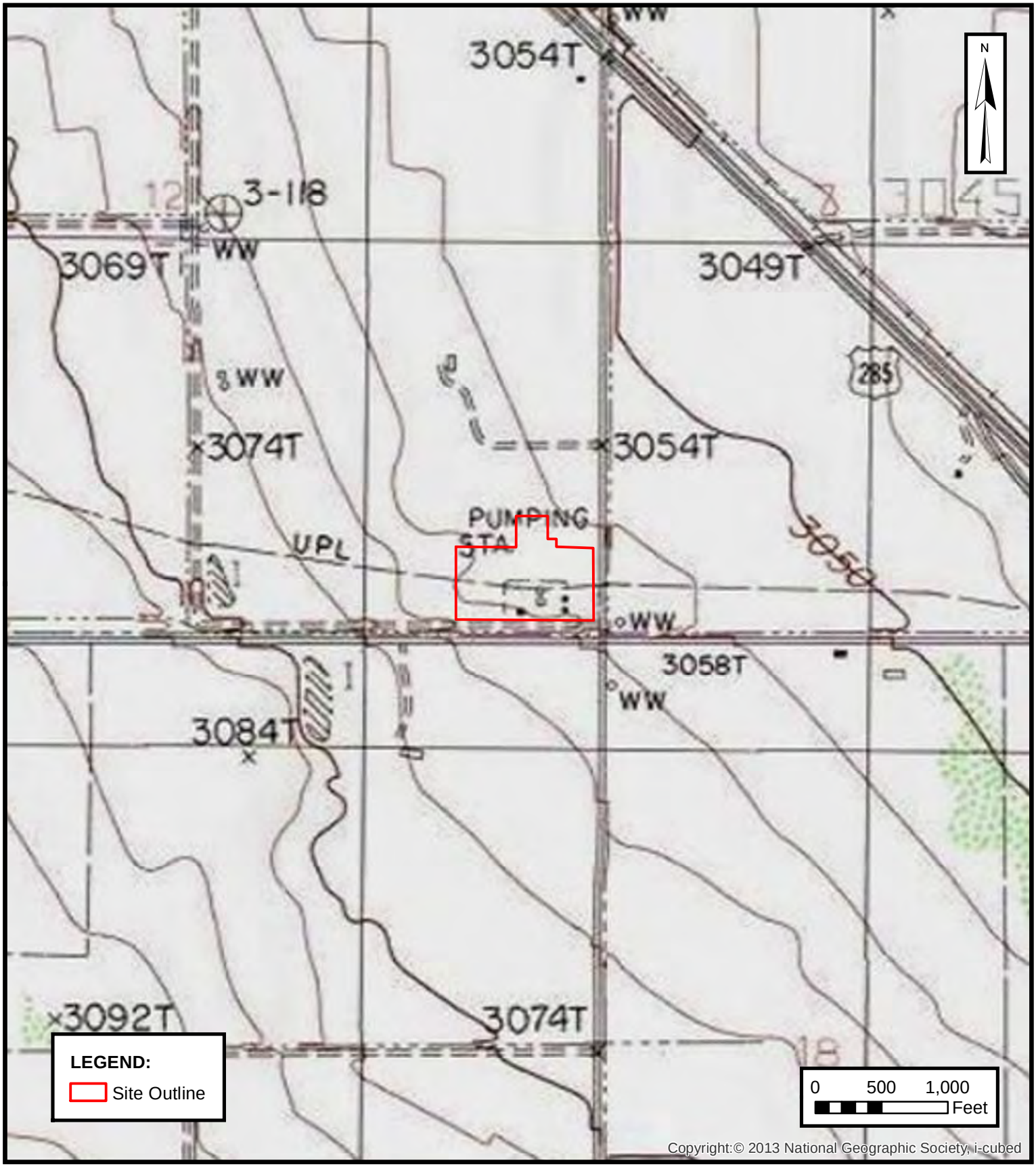
APPENDIX A

Figures



ENSOLUM
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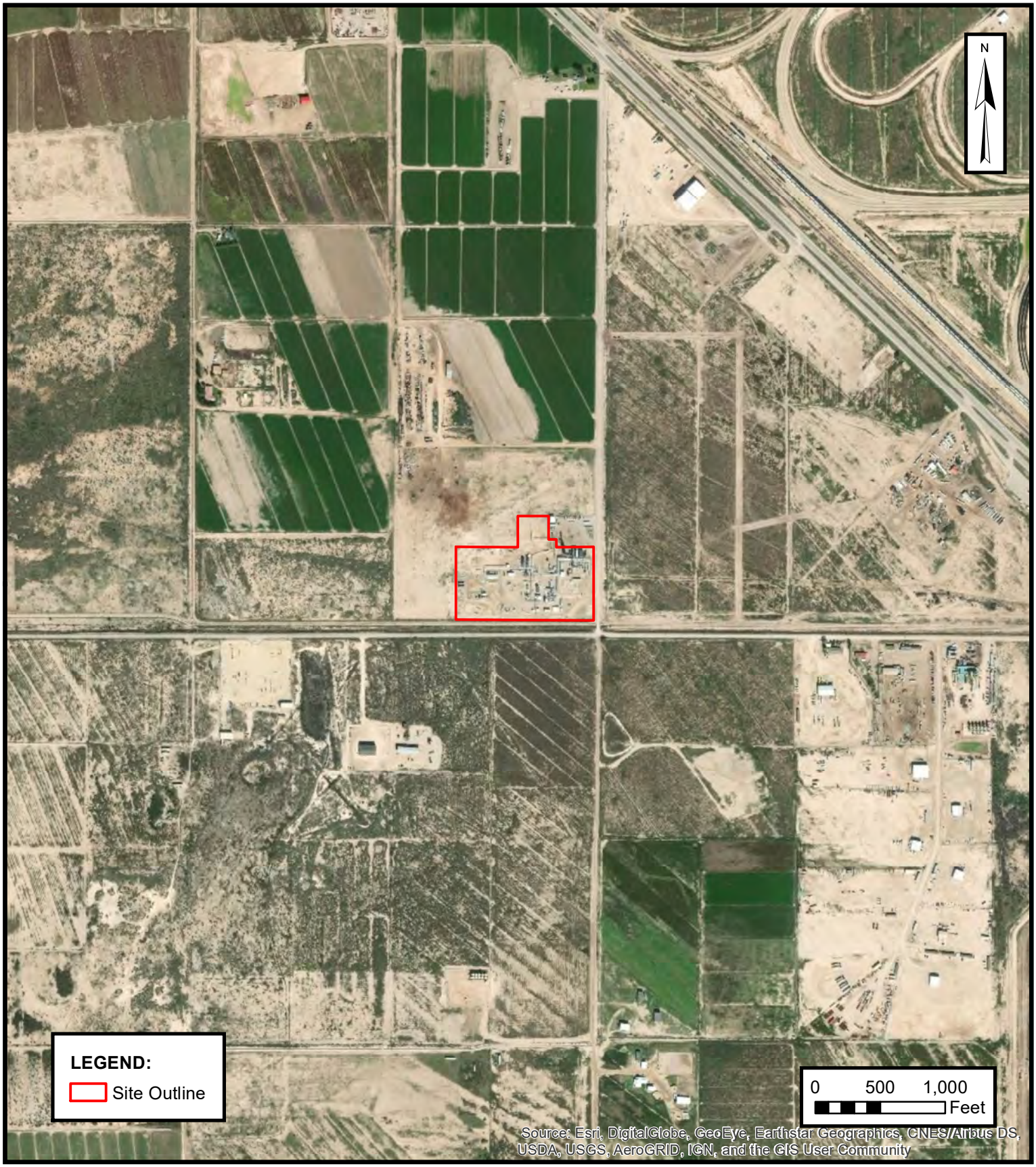
TOPOGRAPHIC MAP
ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

PROJECT NUMBER: 03B1226001

FIGURE
1



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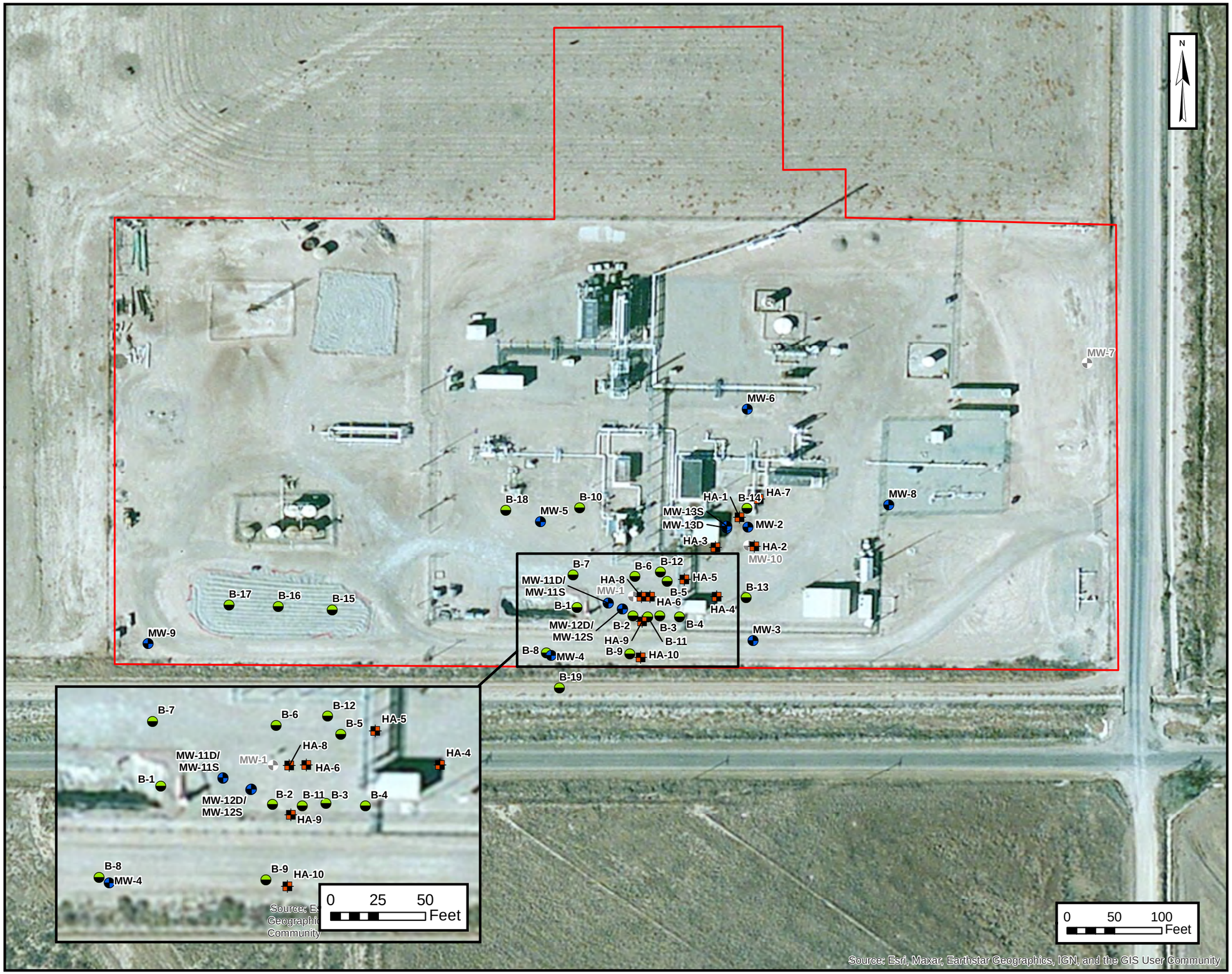
Environmental, Engineering and Hydrogeologic Consultants

SITE VICINITY MAP
ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

PROJECT NUMBER: 03B1226001

FIGURE
2



LEGEND:

- Site Outline
- Soil Boring Location
- Hand Auger Location
- Monitoring Well Location
- Plugged & Abandoned Monitor Well Location

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

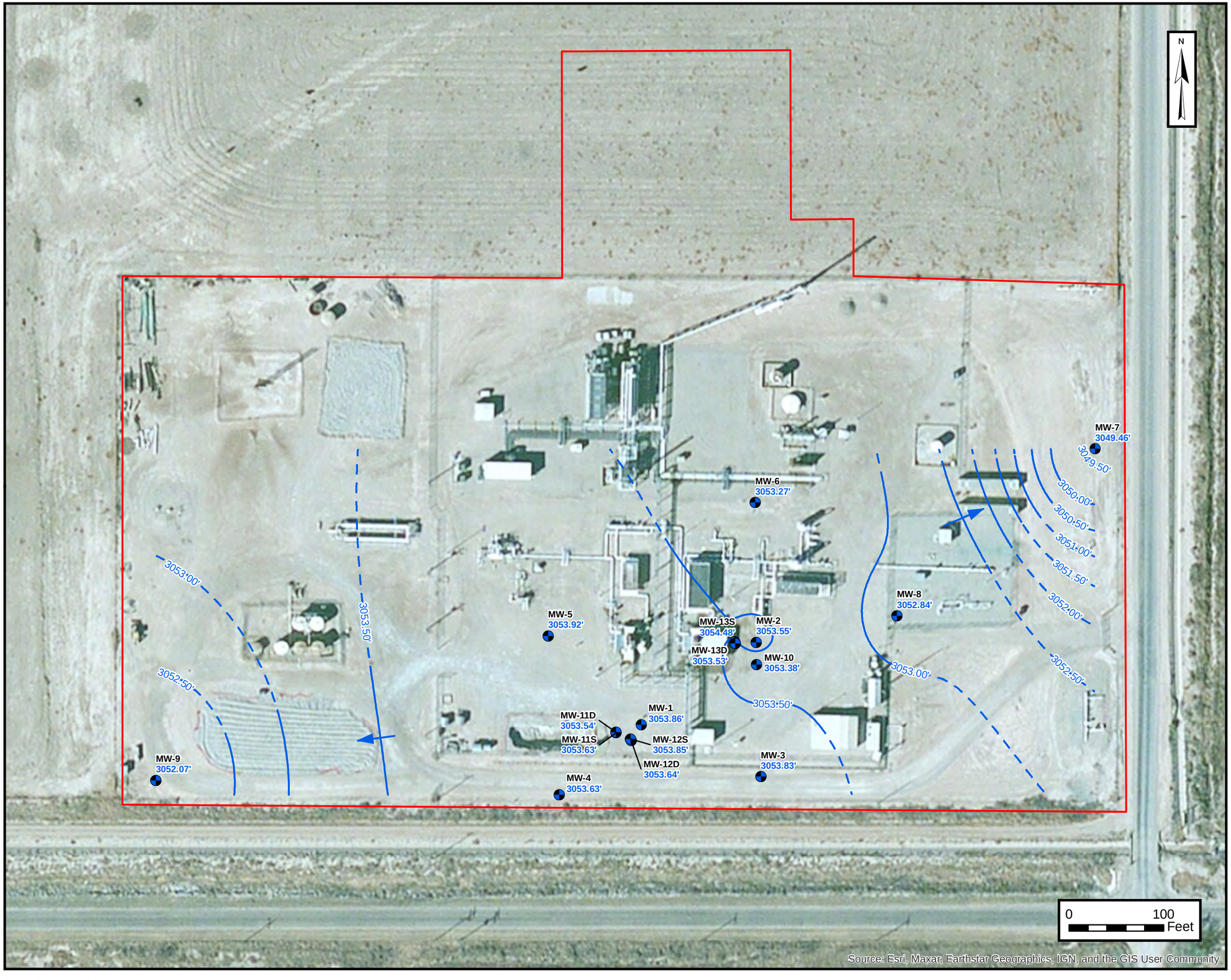
SITE MAP

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32313436° N, 104.136360° W

FIGURE
3

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.50')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in **blue** and listed in feet.
Data from MW-13S was not used to generate contour lines.

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Environmental, Engineering and Hydrogeologic Consultants

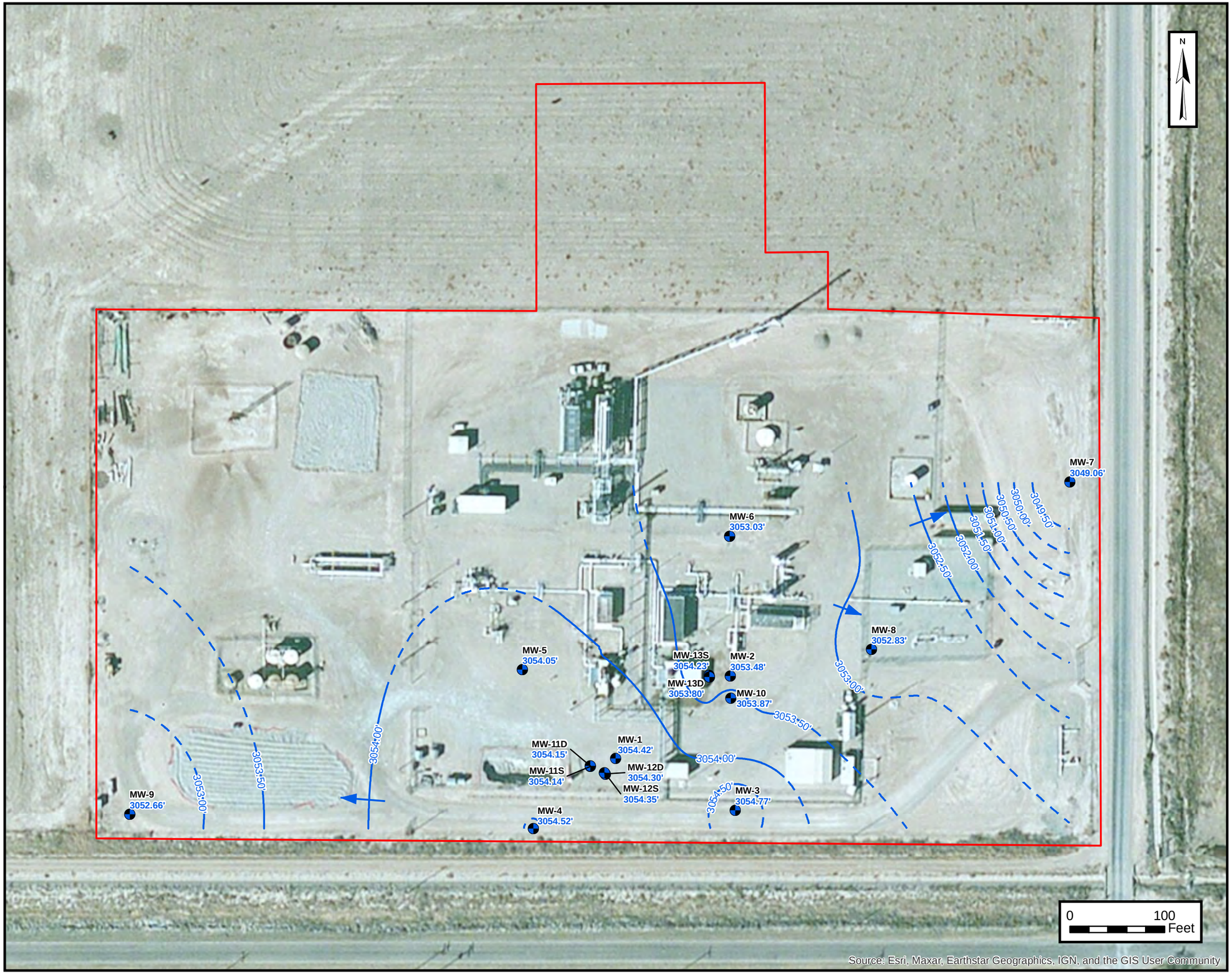
GROUNDWATER GRADIENT MAP (MARCH 2022)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4A

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.50')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in **blue** and listed in feet.
Data from MW-13S was not used to generate contour lines.

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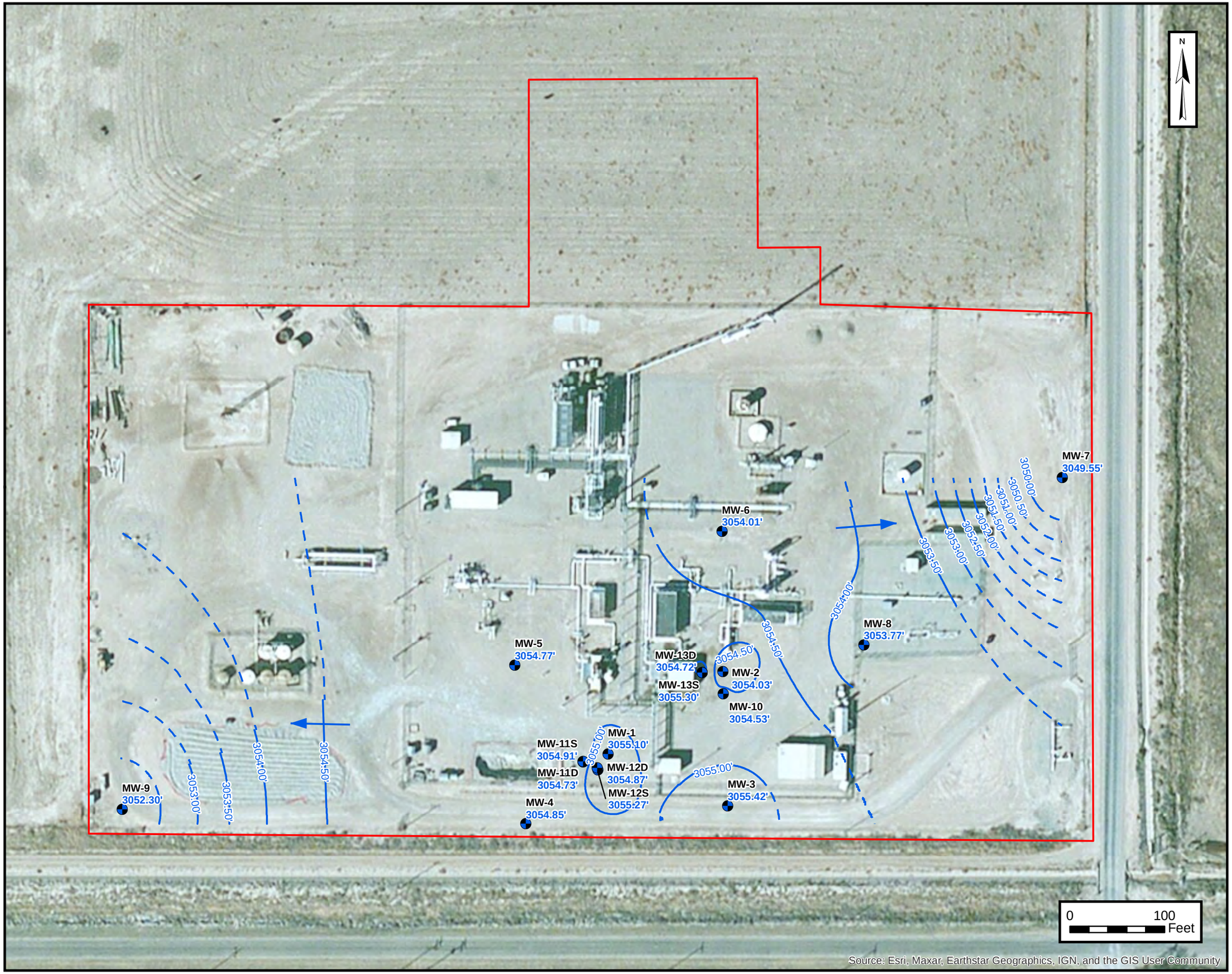
GROUNDWATER GRADIENT MAP (MAY 2022)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4B

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.50')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in **blue** and listed in feet.
Data from MW-12S & MW-13D were not used to generate contour lines.

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Environmental, Engineering and Hydrogeologic Consultants

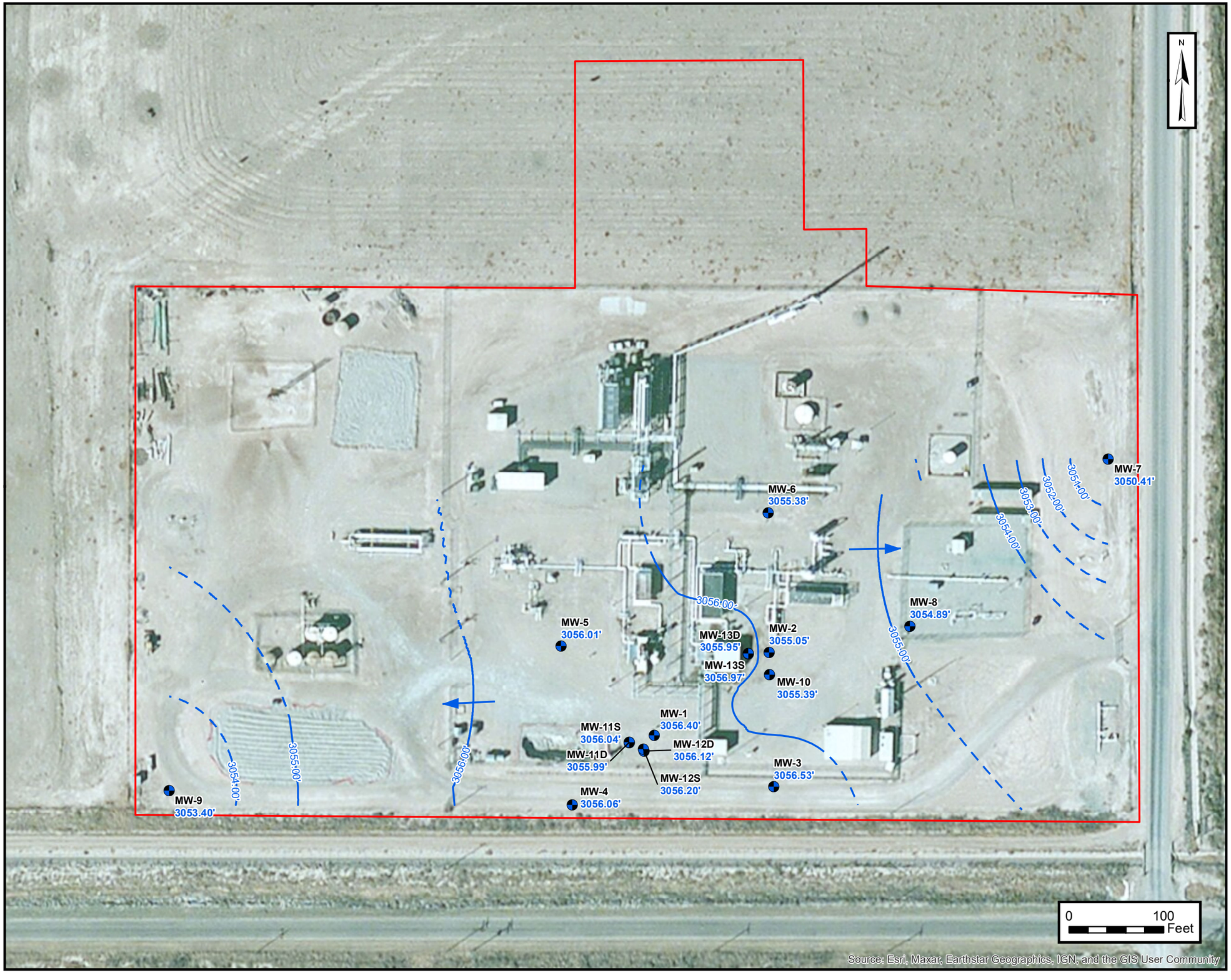
GROUNDWATER GRADIENT MAP (AUGUST 2022)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4C

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 1.0')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in blue and listed in feet. Data from MW-11D & MW-13D were not used to generate contour lines.

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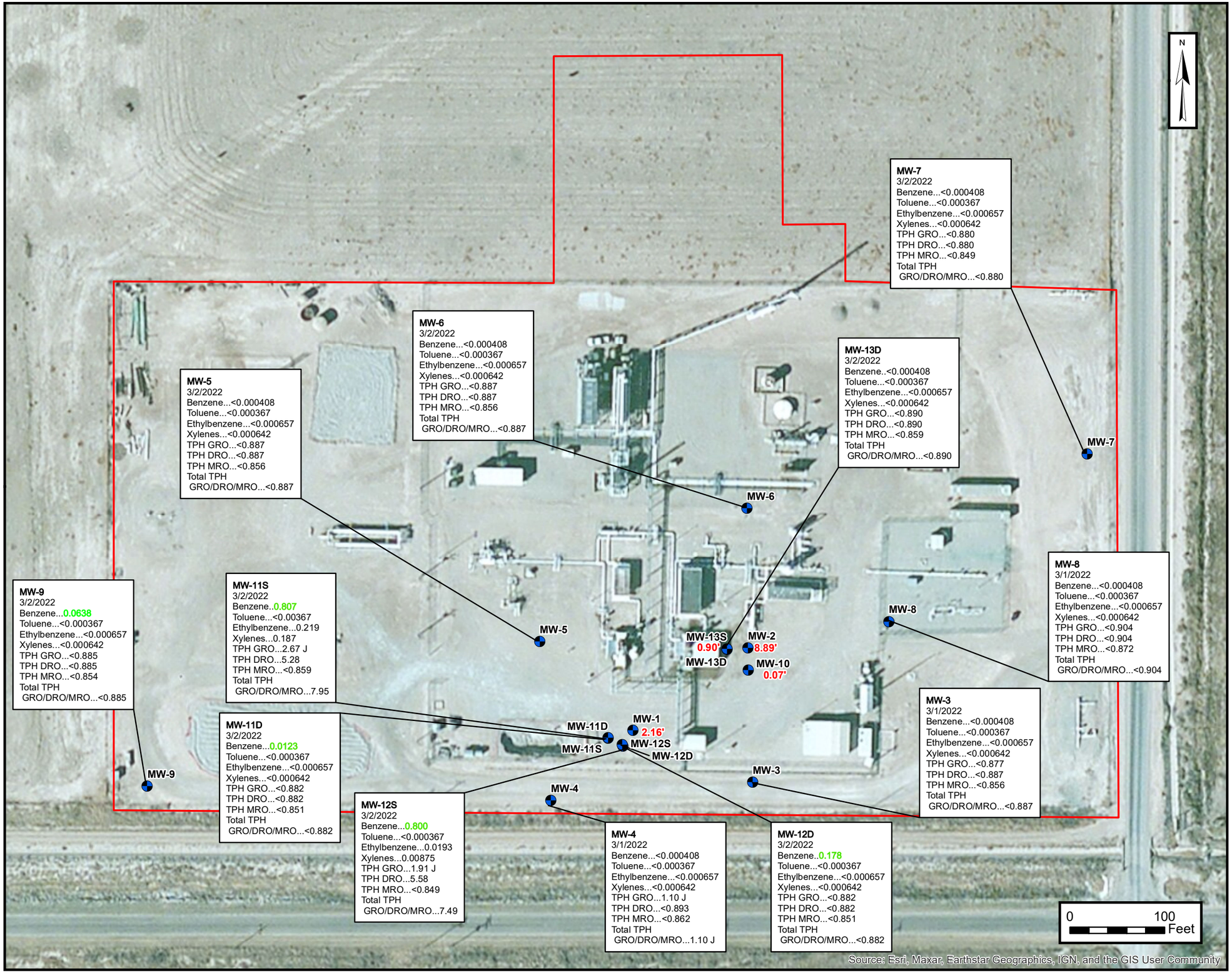
GROUNDWATER GRADIENT MAP (NOVEMBER 2022)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4D

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
PSH thicknesses in **red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **green** exceed New Mexico Water Quality Control Commission Groundwater Quality Standards.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

COC CONCENTRATION MAP (MARCH 2022)

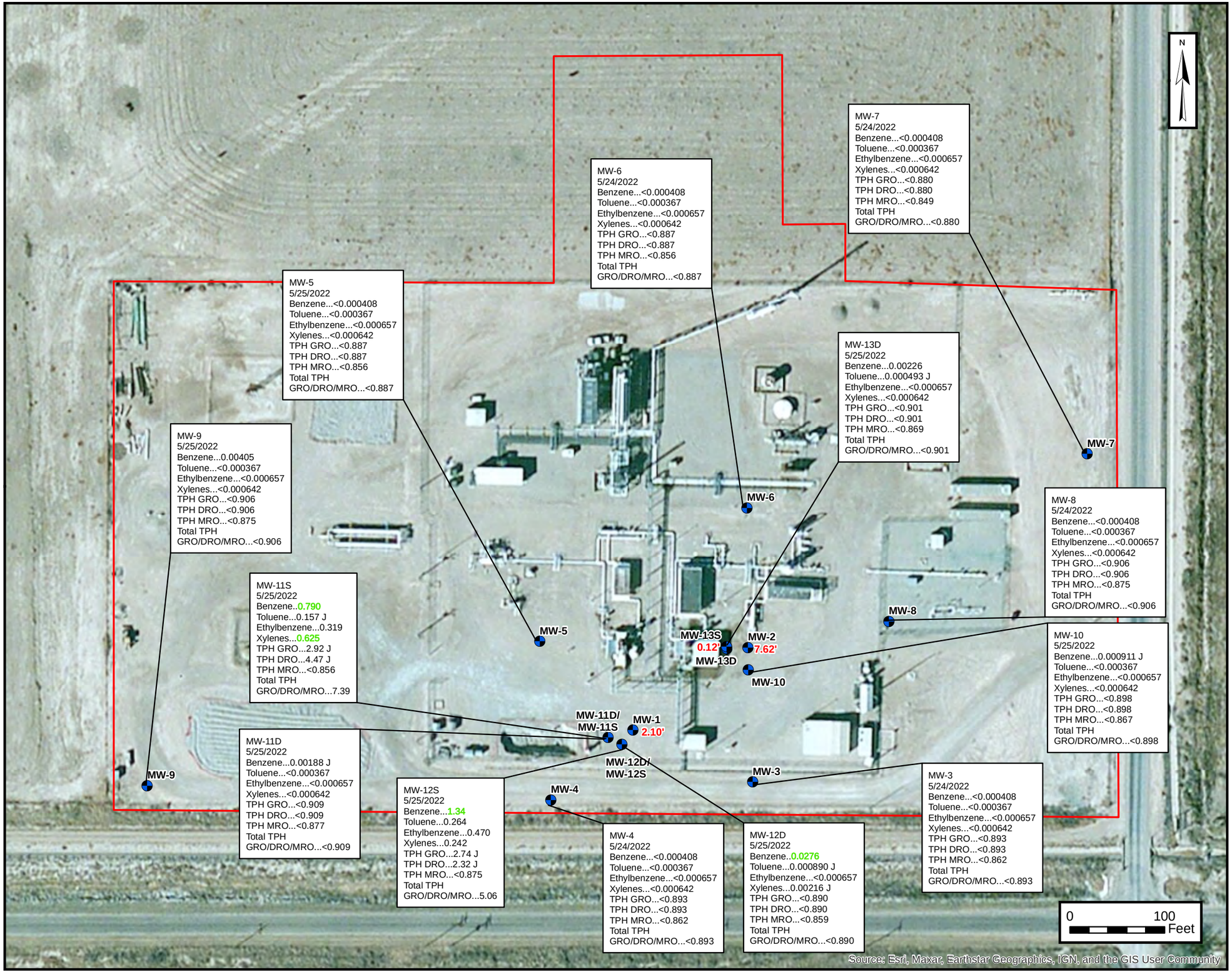
ENTERPRISE PRODUCTS OPERATING LLC
SOUTH CARLSBAD COMPRESSOR STATION
OCD PERMIT NO.: 2R-422

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE

5A

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
PSH thicknesses in **red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **green** exceed New Mexico Water Quality Control Commission Groundwater Quality Standards.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

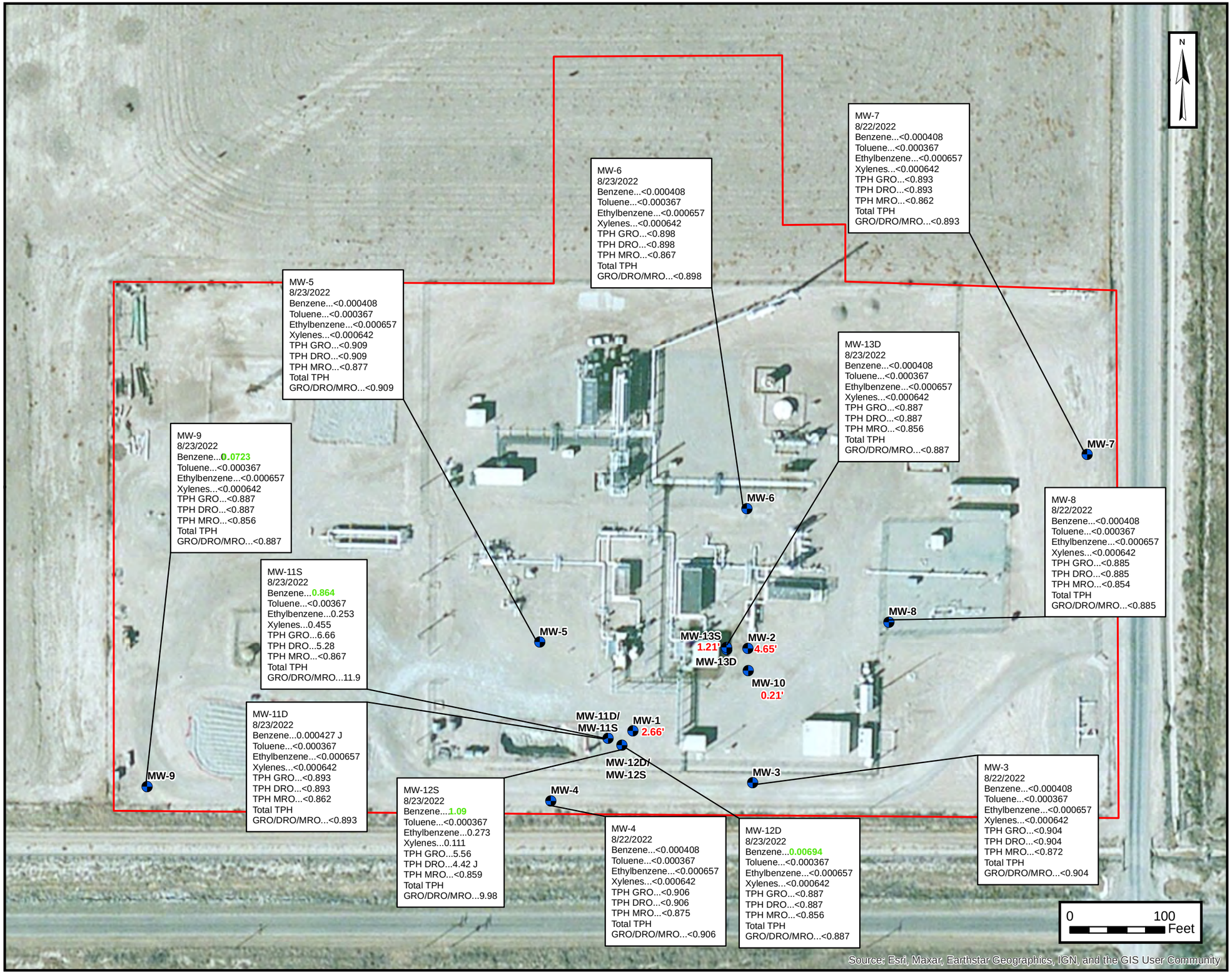
COC CONCENTRATION MAP (MAY 2022)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
5B

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
PSH thicknesses in **red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **green** exceed New Mexico Water Quality Control Commission Groundwater Quality Standards.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

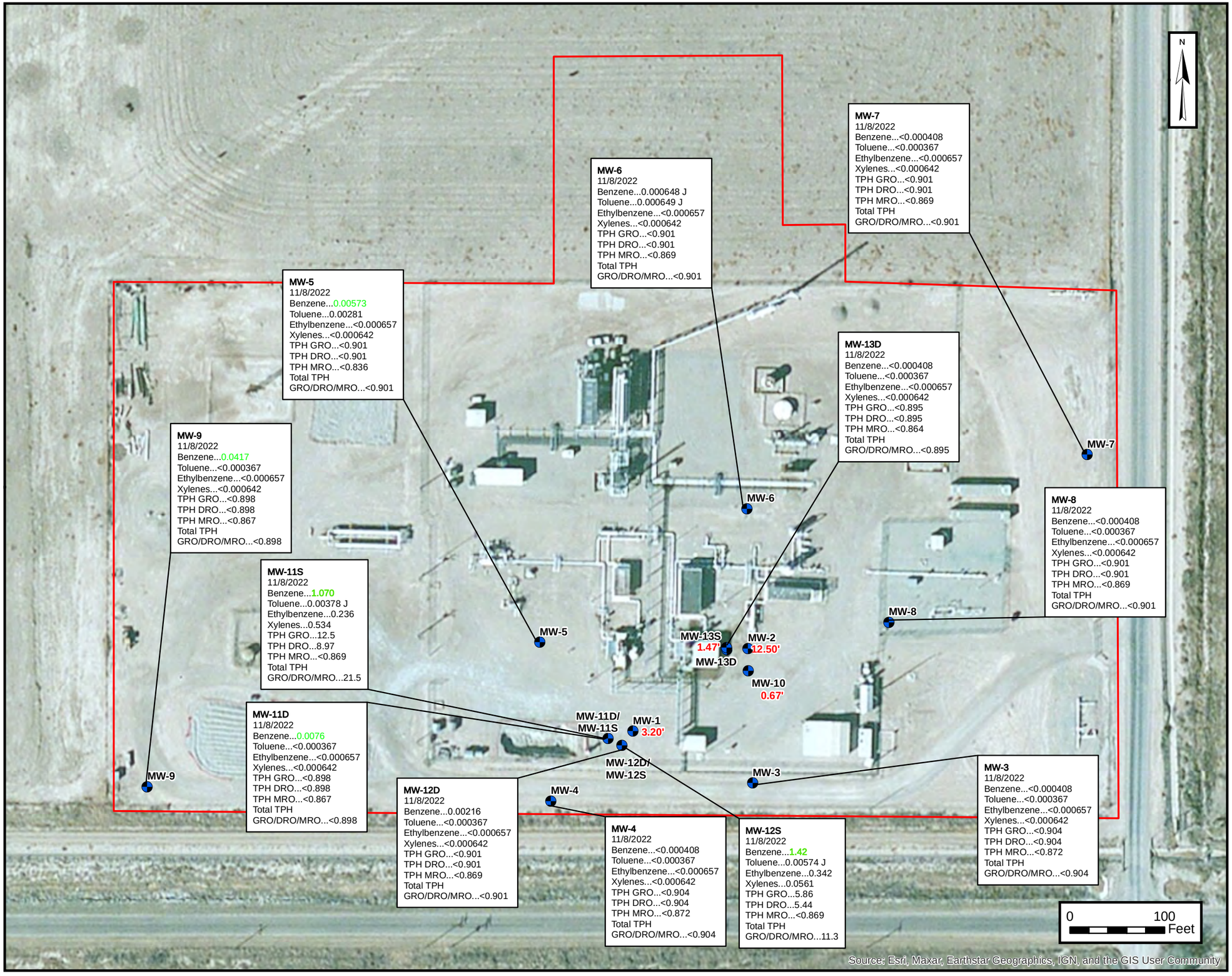
COC CONCENTRATION MAP (AUGUST 2022)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
5C

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
PSH thicknesses in **red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **green** exceed New Mexico Water Quality Control Commission Groundwater Quality Standards.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

COC CONCENTRATION MAP (NOVEMBER 2022)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
5D

Ensolum Project No : 03B1226001

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APPENDIX B

Tables

TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
SOIL BORING ANALYTICAL RESULTS												
B-1 (7-8)	11/5/2009	7 - 8	NA	0.34	7.1	1.5	31	39.94	270	710	NA	980
B-1 (19-20)	11/5/2009	19 - 20	NA	<0.0021	<0.0022	<0.0024	0.036	0.0427	0.15	24	NA	24.15
B-2	2/25/2011	Soil Samples Not Collected										
B-3 (6-7)	2/25/2011	6 - 7	NA	0.0091	56.8	13.1	224	293.9	2,070	4,830	NA	6,900
B-4 (3-4)	2/25/2011	3 - 4	NA	<0.00131	<0.00131	<0.00131	<0.00394	<0.00787	<0.0657	4.17	NA	4.2357
B-4 (5-6)	2/25/2011	5 - 6	NA	<0.00133	0.00316	<0.00133	0.0198	0.02562	3.75	368	NA	371.75
B-5 (4-5)	2/25/2011	4 - 5	NA	<0.00125	7.62	0.00991	29.4	37.03116	1,540	2,520	NA	4,060
B-6 (4-5)	2/25/2011	4 - 5	NA	<0.00122	0.00847	<0.00122	0.0147	0.02561	1.12	25.5	NA	26.62
B-6 (7-8)	2/25/2011	7 - 8	NA	<0.00128	7.17	4.15	46.3	57.621	1,930	2,210	NA	4,140
B-7 (2-3)	2/25/2011	2 - 3	NA	<0.00122	<0.00122	<0.00122	<0.00366	<0.04026	<0.0612	7.98	NA	<8.0412
B-7 (5-6)	2/25/2011	5 - 6	NA	<0.0012	2.23	2.28	10.5	15.0112	960	1,480	NA	2,440
B-8 (4-5)	2/25/2011	4 - 5	NA	<0.00135	6.93	2.93	17.8	27.66135	2,100	1,920	NA	4,020
B-8 (7-8)	2/25/2011	7 - 8	NA	<0.00119	<0.00119	<0.00119	<0.00358	<0.00715	<0.0597	199	NA	199.1
B-9 (4-5)	2/25/2011	4 - 5	NA	<0.0012	0.00416	<0.0012	<0.00359	0.01015	<0.0598	4.5	NA	4.560
B-9 (7-8)	2/25/2011	7 - 8	NA	<0.00186	<0.00186	<0.00186	<0.00558	<0.01116	<0.0929	8.98	NA	9.073
B-10 (8-9)	1/14/2014	8 - 9	NA	0.0076 J	0.029 J	<0.0033	0.15	0.1899	33	59	NA	92
B-10 (14-15)	1/14/2014	14 - 15	NA	<0.0030	0.026 J	<0.0034	0.037 J	0.0694	6.6	<3.9	NA	10.5
B-10 (24-25)	1/14/2014	24 - 25	NA	<0.0029	0.025 J	<0.0033	<0.011	0.0422	<2.8	<3.9	NA	<6.7
B-11 (10-11)	1/15/2014	10 - 11	NA	0.14 J	1.3	1.3	11	13.74	380	1,000	NA	1,380
B-11 (20-21)	1/15/2014	20 - 21	NA	0.021 J	0.088	<0.0032	1.3	1.4122	110	58	NA	168
B-11 (29-30)	1/15/2014	29 - 30	NA	0.0071 J	0.045 J	0.043 J	0.18	0.2751	18	8.3	NA	26.3
B-12 (13-14)	1/15/2014	13 - 14	NA	0.49 J	<0.060	2.4	2.2	5.15	350	820	NA	1,170
B-12 (15-16)	1/15/2014	15 - 16	NA	0.096	0.052	0.91	0.96	2.018	180	45	NA	225
B-12 (24-25)	1/15/2014	24 - 25	NA	0.01 J	0.016 J	0.047 J	0.087 J	0.16	18	4.2	NA	22.2
B-13 (14-15)	1/14/2014	14 - 15	NA	<0.0030	0.025 J	<0.0034	<0.011	0.0424	<3.0	<3.9	NA	<6.9
B-13 (24-25)	1/14/2014	24 - 25	NA	<0.0030	0.021 J	<0.0034	<0.011	0.0384	<2.9	<3.9	NA	<6.8
B-14 (14-15)	1/15/2014	14 - 15	NA	<0.0029	0.024 J	<0.0033	<0.011	0.0313	<2.9	29	NA	31.9
B-14 (24-25)	1/15/2014	24 - 25	NA	<0.0031	0.024 J	<0.0035	<0.011	0.0416	<3.0	<3.9	NA	<6.9
B-15 (3-4)	1/14/2014	3 - 4	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-16 (3-4)	1/14/2014	3 - 4	380	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-17 (3-4)	1/14/2014	3 - 4	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-18 (12-13)	1/15/2014	12 - 13	NA	<0.0029	0.025 J	<0.0033	<0.011	0.0323	<2.9	<4.0	NA	<6.9
B-18 (24-25)	1/15/2014	24 - 25	NA	<0.0029	0.023 J	<0.0033	<0.011	0.0402	<2.9	<3.9	NA	<6.8
B-19 (24-26)	9/16/2015	24 - 26	NA	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<15.0	<15.0	NA	<15.0
B-19 (30-32)	9/16/2015	30 - 32	NA	<0.001000	<0.00200	<0.001000	<0.001000	<0.001000	<15.0	<15.0	NA	<15.0

TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
MONITORING WELL ANALYTICAL RESULTS												
MW-1	12/18/2014	12 - 14	NA	**0.27**	<0.25	**3.9**	**23**	**27.42**	**950**	**1,600**	NA	**2,550**
		30 - 32	NA	**0.087**	**0.054**	**1.6**	**8.9**	**10.64**	**440**	**470**	NA	**910**
MW-2	12/17/2014	16 - 18	NA	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	**2,400**	NA	**2,405**
		26 - 28	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	**510**	NA	**514.8**
MW-3	12/17/2014	10 - 12	NA	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<9.9	NA	<9.9
		26 - 28	NA	<0.047	<0.047	<0.047	<0.093	<0.234	<4.7	<9.9	NA	<9.9
MW-4	12/17/2014	7 - 9	NA	<0.048	<0.048	<0.048	<0.097	<0.241	**160**	**550**	NA	**710**
		23 - 25	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	**13.0**	NA	**13.0**
MW-5	12/17/2014	7 - 8	NA	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	**39.0**	NA	**39.0**
		30 - 32	NA	<0.046	<0.046	<0.046	<0.093	<0.231	<4.6	**13.0**	NA	**17.6**
MW-6	9/15/2015	24 - 26	NA	<0.000996	<0.00199	<0.000996	<0.000996	<0.000996	<15.0	<15.0	NA	<15.0
		32 - 34	NA	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<14.9	<14.9	NA	<14.9
MW-7	9/16/2015	20 - 22	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
		30 - 32	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
MW-8	9/16/2015	26 - 28	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<14.9	<14.9	NA	<14.9
		34 - 35	NA	<0.001010	<0.00201	<0.001010	<0.001010	<0.001010	<15.0	<15.0	NA	<15.0
MW-9	9/17/2015	22 - 24	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
		34 - 35	NA	<0.001010	<0.00202	<0.001010	<0.001010	<0.001010	<15.0	<15.0	NA	<15.0
MW-10	9/16/2015	20 - 22	NA	<0.001010	<0.00202	<0.001010	<0.001010	<0.001010	<14.3	<14.3	NA	<14.3
		34 - 35	NA	<0.001000	<0.00200	<0.001000	<0.001000	<0.001000	<15.0	<15.0	NA	<15.0
MW-11S	11/12/2019	7 - 8	NA	**3.19**	**62.7**	**22.4**	**205**	**293**	**5,840**	**4,780**	**131**	**10,800**
		25 - 26	NA	**0.00371**	<0.00198	<0.00198	<0.00198	**0.00371**	<15.0	<15.0	<15.0	<15.0
MW-11D	11/12/2019	31	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0
MW-12S	6/14/2021	7 - 8	NA	**0.00473**	**0.00134 J**	**0.00881**	**0.0234**	**0.0383**	**39.8 J**	**554**	**439**	**1,030**
		20 - 21	NA	**0.0178**	**0.0539**	**0.155**	**0.0756**	**0.0971**	**41.1 J**	**945**	**549**	**1,540**
		21 - 22	NA	**0.0173**	**0.000475 J**	**0.00237**	**0.0324**	**0.0525**	**228**	**3,840**	**270**	**4,340**
MW-12D	6/15/2021	28 - 29	NA	**0.000425 J**	**0.00101 J**	<0.000563	**0.00141 J**	**0.00285 J**	**144**	**2,130**	**172**	**2,450**
MW-13S	6/15/2021	7 - 8	NA	<0.000385	<0.000456	**0.00119 J**	<0.00101	**0.00119 J**	**190**	**2,790**	**223**	**3,200**
		19 - 20	NA	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	**31.9 J**	<15.0	**31.9 J**
MW-13D	6/16/2021	29 - 30	NA	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0

TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
HAND AUGER ANALYTICAL RESULTS												
HA-1	04/09/2018	8 - 8.5	NA	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	**30.1 J**	**8,280**	**4,930**	**13,200**
HA-1	04/09/2018	9.25 - 9.5	NA	<0.00248	<0.00248	<0.00248	<0.00248	<0.00248	**29.9 J**	**6,960**	**5,840**	**12,800**
HA-2	04/10/2018	4-5	NA	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<9.95	<9.95	<9.95	<9.95
HA-2	04/10/2018	5 - 5.5	NA	<0.000497	<0.000497	<0.000497	<0.000497	<0.000497	<9.95	<9.95	<9.95	<9.95
HA-3	04/10/2018	4 - 5	NA	<0.0500	<0.0500	<0.0500	**0.127**	**0.127**	**30.6 J**	**31,600**	**14,200**	**45,800**
HA-3	04/10/2018	5 - 5.25	NA	<0.0125	**0.0518**	**0.0533**	**0.218**	**0.323**	**35.1 J**	**28,600**	**13,700**	**42,300**
HA-4	04/10/2018	1 - 2	NA	<0.000501	<0.000501	<0.000501	<0.000501	<0.000501	<9.92	**24.7 J**	<9.92	**24.7 J**
HA-4	04/10/2018	6 - 6.5	NA	<0.000502	<0.000502	<0.000502	<0.000502	<0.000502	<10.0	**15.8 J**	<10.0	**15.8 J**
HA-5	04/10/2018	5 - 6	NA	<0.0125	<0.0125	<0.0125	<0.0125	<0.0125	**160**	**757**	**28.6 J**	**946**
HA-5	04/10/2018	6 - 7	NA	<0.000501	<0.000501	**0.00187**	<0.000501	**0.00187**	**252**	**648**	**24.2 J**	**924**
HA-6	04/10/2018	6 - 6.25	NA	<0.0500	<0.0500	**0.508**	**0.498**	**1.01**	**843**	**935**	**37.9 J**	**1,820**
HA-6	04/10/2018	6.25 - 6.5	NA	<0.0124	<0.0124	**0.764**	**0.989**	**1.75**	**829**	**1,240**	**45.2 J**	**2,110**
HA-7	04/10/2018	5 - 6	NA	<0.000501	<0.000501	<0.000501	<0.000501	<0.000501	<9.90	<9.90	<9.90	<9.90
HA-7	04/10/2018	7 - 8	NA	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<9.90	<9.90	<9.90	<9.90
HA-8	04/10/2018	2 - 3	NA	<0.0498	**0.0996 J**	**7.94**	**79.2**	**87.2**	**3,150**	**3,050**	**108**	**6,310**
HA-8	04/10/2018	5 - 5.5	NA	<0.0496	**0.0575 J**	**5.37**	**55.9**	**61.3**	**2,400**	**2,450**	**88.5**	**4,940**
HA-9	04/11/2018	4 - 5	NA	<0.0501	**0.0862 J**	**6.59**	**27.5**	**34.1**	**4,480**	**8,150**	**275**	**12,900**
HA-9	04/11/2018	5 - 6	NA	<0.0499	**0.0699 J**	**5.80**	**64.1**	**70.0**	**2,800**	**3,980**	**198**	**6,980**
HA-10	04/11/2018	2 - 3	NA	<0.000499	<0.000499	<0.000499	<0.000499	<0.000499	<10.0	<10.0	<10.0	<10.0
HA-10	04/11/2018	3 - 4.5	NA	<0.000499	<0.000499	<0.000499	<0.000499	<0.000499	<9.99	<9.99	<9.99	<9.99

TABLE 1
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South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			**600**	**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**
EXCAVATION CONFIRMATION ANALYTICAL RESULTS												
EC-1	1/31/2011	8 - 9	NA	<0.0125	**13**	**9.23**	**103**	**<125.2425**	**903**	**6,040**	NA	**6,943**
EC-1(R)	2/24/2011	8 - 9	NA	<0.0123	**13.1**	**2.62**	**50.1**	**65.8323**	**569**	**1,250**	NA	**1,819**
EC-2	1/31/2011	8 - 9	NA	<0.00611	**0.214**	**0.24**	**16.8**	**17.26011**	**1.34**	**4,530**	NA	**4,531**
EC-2(R)	2/24/2011	8 - 9	NA	<0.0127	**7.98**	**0.836**	**25.4**	**34.2287**	**6,980**	**674**	NA	**7,654**
EC-2(R)	2/24/2011	8 - 9	NA	NA	NA	NA	NA	NA	**835**	**2,050**	NA	**2,885**
EC-3	1/31/2011	8 - 9	NA	<0.00128	**0.00713**	<0.00128	**59.4**	**59.40969**	**1,260**	**5,200**	NA	**6,460**
EC-3(R)A	2/24/2011	8 - 9	NA	<0.0126	**4.22**	**1.26**	**12.3**	**17.7926**	**515**	**640**	NA	**1,155**
EC-3(R)B	2/24/2011	8 - 9	NA	<0.00135	**0.00204**	<0.00135	<0.00406	**0.0088**	**0.545**	**14.9**	NA	**15.445**
EC-4	1/31/2011	8 - 9	NA	<0.00126	<0.00126	<0.00126	<0.00379	<0.00757	**0.722**	**44**	NA	**44.722**
EC-5	1/31/2011	8 - 9	NA	<0.0013	**0.0156**	**0.04**	**0.123**	**0.1799**	**0.836**	**692**	NA	**692.84**

Concentrations in **bold** and shaded yellow exceed the applicable OCD Remediation Action Level.

- indicates the area was over-excavated and removed.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

* Totals include reported concentration and/or assume concentrations up to the SDL.

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

mg/kg - milligrams per kilogram

bgs - below ground surface

NA - Not Analyzed

NE - Not Established

ENSOLUM

TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-1	3/24/2011	0 - 0.5	**410**	<0.19	<0.23	<0.23	<0.69	<1.34	**140 J**	**1,600**	**1,740**
TS-1 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**81 J**	**1,800**	**1,881**
TS-1 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**570**	**586**
TS-1 (R3)	11/3/2011	0 - 0.5	**120**	NA	NA	NA	NA	NA	<9.8	**440**	**449.8**
TS-2	3/24/2011	0 - 0.5	**310**	<0.019	<0.023	<0.023	<0.069	<0.134	**8.3 J**	**770**	**778.3**
TS-2 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**560**	**576**
TS-2 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**470**	**486**
TS-3	3/24/2011	0 - 0.5	**600**	<0.19	<0.23	<0.23	**0.83 J**	**1.48**	<80	**1,700**	**1,780**
TS-3 (R)	6/20/2011	0 - 0.5	**290**	NA	NA	NA	NA	NA	<30	**1,400**	**1,430**
TS-3 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**1,200**	**1,216**
TS-3 (R3)	11/3/2011	0 - 0.5	**120**	NA	NA	NA	NA	NA	<24	**1,200**	**1,224**
TS-3 (R4)	12/6/2011	0.5 - 1	NA	NA	NA	NA	NA	NA	<4.8	**270**	**274.8**
TS-4	3/24/2011	0 - 0.5	**270**	<0.019	<0.023	<0.023	**0.14 J**	**0.205**	**17 J**	**1,300**	**1,317**
TS-4 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**820**	**835**
TS-4 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<7.5	**250**	**257.5**
TS-5	3/24/2011	0 - 0.5	**440**	<0.019	<0.023	<0.023	<0.069	<0.134	<8.0	**1,300**	**1,308**
TS-5 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**1.6 J**	**14**	**15.6**

ENSOLUM

TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-6	3/24/2011	0 - 0.5	**190**	**<0.37**	<0.46	<0.45	**1.6 J**	**2.88**	<160	**2,000**	**2,160**
TS-6 (R)	6/20/2011	0 - 0.5	NA	<0.018	<0.022	<0.021	<0.065	<0.126	<7.6	**230**	**237.6**
TS-7	3/24/2011	0 - 0.5	**260**	<0.019	<0.023	**0.023 J**	**0.25 J**	**0.315**	**20 J**	**1,500**	**1,520**
TS-7 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**56**	**57.6**
TS-8	3/24/2011	0 - 0.5	**350**	<0.019	**0.039 J**	**0.069 J**	**0.09**	**0.217**	**47**	**1,500**	**1,547**
TS-8 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	<3.5	<5.1
TS-9	3/24/2011	0 - 0.5	**410**	<0.019	<0.023	**0.023 J**	<0.069	**0.134**	<8.0	**650**	**658**
TS-9 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<8.0	**270**	**278**
TS-10	3/24/2011	0 - 0.5	**110**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,000**	**1,080**
TS-10 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<8.4	**250**	**258.4**
TS-11	3/24/2011	0 - 0.5	**160**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,800**	**1,880**
TS-11 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**790**	**806**
TS-11 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.5	**350**	**351.5**
TS-12	3/24/2011	0 - 0.5	**160**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,400**	**1,480**
TS-12 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**440**	**455**
TS-13	3/24/2011	0 - 0.5	**100**	**<0.37**	<0.46	<0.45	<1.4	**2.68**	<160	**1,900**	**2,060**
TS-13 (R)	6/20/2011	0 - 0.5	NA	<0.018	<0.022	<0.022	<0.066	<0.128	<7.7	**290**	**297.7**
TS-14	3/24/2011	0 - 0.5	**210**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,100**	**1,180**
TS-14 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**500**	**515**
TS-15	3/24/2011	0 - 0.5	**210**	<0.19	<0.23	<0.23	<0.69	<1.34	**160 J**	**2,400**	**2,560**
TS-15 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**17 J**	**430**	**447**

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TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-16	3/24/2011	0 - 0.5	**230**	<0.19	<0.23	<0.23	<0.69	<1.34	**210 J**	**1,900**	**2,110**
TS-16 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.5	**73**	**74.5**
TS-17	3/24/2011	0 - 0.5	**320**	<0.037	<0.046	<0.045	<0.14	<0.268	<16	**1,200**	**1,216**
TS-17 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**3.3 J**	**99**	**102.3**
TS-18	3/24/2011	0 - 0.5	**280**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,800**	**2,880**
TS-18 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**63**	**64.6**
TS-19	3/24/2011	0 - 0.5	**290**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,700**	**2,780**
TS-19 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**790**	**806**
TS-19 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<7.5	**330**	**337.5**
TS-20	3/24/2011	0 - 0.5	**230**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,200**	**2,280**
TS-20 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**72**	**73.6**
VZ-1	3/3/2012	3 - 3.25	**460**	<0.0047	<0.0081	<0.0039	<0.0160	<0.0327	<1.4	<5.4	<6.8
VZ-2	3/3/2012	3 - 3.25	**1,300**	<0.0046	<0.0079	<0.0038	<0.0160	<0.0323	<1.3	<5.4	<6.7

Concentrations in **bold** and shaded yellow exceed the applicable NMAC Small Landfarm Closure Performance Standards.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
** Totals include reported concentration and/or assume concentrations up to the SDL.
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
mg/kg - milligrams per kilogram
bgs - below ground surface
NE - Not Established

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-1	1/20/2015	NA	**2,900**	**0.094**	<0.002	<0.002	**0.370**	**2.30**	**1.20**	NA	NA
	10/27/2015	NA	**2,390**	**0.339**	<0.002	**0.074**	**0.369**	**4.95**	<1.40	NA	**4.95**
	2/4/2016	NA	**1,740**	**0.966**	<0.010	**0.198**	**0.874**	**7.46**	**1.43**	NA	**8.89**
	5/3/2016	NA	NA	**1.570**	**0.0187**	**0.343**	**1.760**	**6.99**	<1.50	NA	**6.99**
	8/9/2016	NA	NA	**0.387**	<0.00184	**0.0877**	**0.439**	**7.96**	**1.42 J**	NA	**9.38**
	11/14/2016	Not Sampled Due to Presence of PSH									
	2/23/2017	Not Sampled Due to Presence of PSH									
	5/11/2017	Not Sampled Due to Presence of PSH									
	8/22/2017	Not Sampled Due to Presence of PSH									
	11/17/2017	NA	NA	**0.772**	**0.0206**	**0.119**	**0.509**	**9.79**	**9.32**	<0.911	**19.1**
	5/31/2018	Not Sampled Due to Presence of PSH									
	9/17/2019	Not Sampled Due to Presence of PSH									
	5/19/2020	Not Sampled Due to Presence of PSH									
	11/10/2020	Not Sampled Due to Presence of PSH									
	5/20/2021	Not Sampled Due to Presence of PSH									
	8/17/2021	Not Sampled Due to Presence of PSH									
	11/23/2021	Not Sampled Due to Presence of PSH									
	3/1/2022	Not Sampled Due to Presence of PSH									
	5/24/2022	Not Sampled Due to Presence of PSH									
	8/22/2022	Not Sampled Due to Presence of PSH									
	11/8/2022	Not Sampled Due to Presence of PSH									
MW-2	1/20/2015	Not Sampled Due to Presence of PSH									
	10/27/2015	Not Sampled Due to Presence of PSH									
	2/4/2016	Not Sampled Due to Presence of PSH									
	5/2/2016	Not Sampled Due to Presence of PSH									
	8/9/2016	Not Sampled Due to Presence of PSH									
	11/14/2016	Not Sampled Due to Presence of PSH									
	2/23/2017	Not Sampled Due to Presence of PSH									
	5/11/2017	Not Sampled Due to Presence of PSH									
	8/22/2017	Not Sampled Due to Presence of PSH									
	11/16/2017	Not Sampled Due to Presence of PSH									
	5/31/2018	Not Sampled Due to Presence of PSH									
	9/17/2019	Not Sampled Due to Presence of PSH									
	5/19/2020	Not Sampled Due to Presence of PSH									
	11/10/2020	Not Sampled Due to Presence of PSH									
	5/20/2021	Not Sampled Due to Presence of PSH									
	8/17/2021	Not Sampled Due to Presence of PSH									
	11/23/2021	Not Sampled Due to Presence of PSH									
	3/1/2022	Not Sampled Due to Presence of PSH									
	5/24/2022	Not Sampled Due to Presence of PSH									
	8/22/2022	Not Sampled Due to Presence of PSH									
	11/8/2022	Not Sampled Due to Presence of PSH									
MW-3	1/20/2015	NA	**1,800**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015		**3,470**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**2,350**	**0.00476**	<0.002	**0.00385**	0.0149	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.002	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000637	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00151 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.874	**1.16 J**	<0.808	**1.16**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.900	<0.831	<0.831	<0.831
	11/10/2020			<0.000408	**0.00102 J**	<0.000657	<0.0006300	<0.887	<0.819	<0.819	<0.819
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.926	<0.926	<0.894	<0.926
	8/17/2021			<0.000408	<0.000367	<0.000657	**0.000880 J**	<0.938	<0.938	<0.905	<0.938
	11/23/2021			<0.000408	**0.000418 J**	<0.000657	<0.000642	<0.877	<0.877	<0.846	<0.877
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.0877	<0.887	<0.856	<0.887
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.893	<0.893	<0.862	<0.893
	8/22/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-4	1/20/2015	**6,940**	**2,500**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015	NA	**2,040**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		**2,230**	**0.00706**	<0.002	**0.00485**	**0.0217**	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00172 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.881	**1.16 J**	<0.814	**1.16**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.924	<0.854	<0.854	<0.854
	11/10/2020			<0.000408	**0.000640 J**	<0.000657	<0.0006300	<0.892	<0.824	<0.824	<0.824
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.932	<0.932	<0.900	<0.932
	8/17/2021			<0.000408	**0.00142 J**	<0.000657	<0.000642	<0.944	<0.944	<0.911	<0.944
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	**5.19**	**2.54 J**	<0.856	**7.73**
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	**1.10 J**	<0.893	<0.862	**1.10 J**
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.893	<0.893	<0.862	<0.893
	8/22/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.906	<0.906	<0.875	<0.906
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
MW-5	1/20/2015	**4,930**	**1,100**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015	NA	**2,190**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		**2,230**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/23/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.987	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00184 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	**0.00086**	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.874	**0.829 J**	<0.807	**0.829**
	5/19/2020			<0.000408	**0.000470 J**	<0.000657	<0.000630	<0.911	<0.842	<0.842	<0.842
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.884	<0.817	<0.817	<0.817
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.918	<0.918	<0.886	<0.918
	8/17/2021			<0.000408	**0.000530 J**	<0.000657	<0.000642	<0.926	<0.926	<0.894	<0.926
	11/23/2021			<0.000408	<0.000367	<0.000629	<0.000642	<0.887	<0.887	<0.856	<0.887
	3/2/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	5/25/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	8/23/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.909	<0.909	<0.877	<0.909
	11/8/2022			**0.00573**	**0.00281**	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
MW-6	10/27/2015	NA	**335**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**339**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/23/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00167 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.865	**1.10 J**	<0.799	**1.10**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.911	<0.842	<0.842	<0.842
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.888	<0.820	<0.820	<0.820
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.941	<0.941	<0.908	<0.941
	8/17/2021			<0.000408	**0.000396 J**	<0.000657	<0.000642	<0.923	<0.923	<0.891	<0.923
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	3/2/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	8/23/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	11/8/2022			**0.000648 J**	**0.000649 J**	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-7	10/27/2015	NA	**1,470**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**1,400**	<0.001	<0.002	<0.002	<0.0010	<1.40	<1.40	NA	<1.40
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00342**	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	5/30/2018			<0.000408	**0.000570**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.877	**1.03 J**	<0.810	**1.03**
	5/19/2020			**0.000470 J**	<0.000367	<0.000657	**0.000650 J**	<0.925	<0.855	<0.855	<0.855
	11/11/2020			<0.000408	**0.000410 J**	<0.000657	<0.0006300	<0.884	<0.817	<0.817	<0.817
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.947	<0.947	<0.914	<0.947
	8/17/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.947	<0.947	<0.914	<0.947
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	3/2/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.880	<0.880	<0.849	<0.880
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.880	<0.880	<0.849	<0.880
	8/22/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.893	<0.893	<0.862	<0.893
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
MW-8	10/27/2015	NA	**2,240**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**690**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00156 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	**0.000840**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.877	<0.810	<0.810	<0.810
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.909	<0.840	<0.840	<0.840
	11/10/2020			<0.000408	**0.000410 J**	<0.000657	<0.0006300	<0.902	<0.833	<0.833	<0.833
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.929	<0.929	<0.897	<0.929
	8/17/2021			<0.000408	**0.000570 J**	<0.000657	<0.000642	<0.920	<0.920	<0.888	<0.920
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.906	<0.906	<0.875	<0.906
	8/22/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.885	<0.885	<0.854	<0.885
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
MW-9	10/27/2015	NA	**1,600**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		**1,320**	<0.001	<0.001	<0.0010	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00134 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/30/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.886	**1.26 J**	<0.819	**1.26**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.922	<0.852	<0.852	<0.852
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.916	<0.846	<0.846	<0.846
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.935	<0.935	<0.902	<0.935
	8/17/2021			**0.0845**	<0.000367	**0.000880 J**	**0.00164 J**	<0.932	<0.932	<0.900	<0.932
	11/23/2021			**0.0742**	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
	3/2/2022			**0.0638**	<0.000367	<0.000657	<0.000642	<0.885	<0.885	<0.854	<0.885
	5/25/2022			**0.00405**	<0.000367	<0.000657	<0.000642	<0.906	<0.906	<0.875	<0.906
	8/23/2022			**0.0723**	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	11/8/2022			**0.0417**	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-10	10/28/2015	NA	**474**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**762**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/3/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/9/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/15/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00135 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			0.00077	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.866	**1.17 J**	<0.800	**1.17**
	5/19/2020			**0.000500 J**	<0.000367	<0.000657	<0.000630	<0.915	<0.845	<0.845	<0.845
	11/11/2020			**0.00132 J**	<0.000367	<0.000657	<0.0006300	**0.960 J**	<0.825	<0.825	**0.960**
	5/20/2021			**0.000665 J**	<0.000500	<0.000515	<0.000330	<0.926	**1.63 J**	<0.894	**1.63 J**
	8/18/2021			**0.00115 J**	**0.000399 J**	<0.000657	<0.000642	<0.941	<0.941	<0.908	<0.941
	11/23/2021			Not Sampled Due to Presence of PSH							
	3/1/2022			Not Sampled Due to Presence of PSH							
	5/25/2022			**0.000911 J**	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	8/22/2022			Not Sampled Due to Presence of PSH							
	11/8/2022			Not Sampled Due to Presence of PSH							
MW-11S	12/9/2019	NA	NA	**0.637**	**0.393**	**0.0959**	**0.520**	**5.88**	**5.18**	<2.30	**11.1**
	5/19/2020			**0.748**	**0.0745 J**	**0.142**	**0.139**	**5.37**	**6.28**	<0.847	**11.7**
	11/11/2020			**1.26**	**0.00207**	**0.258**	**0.09568**	**3.81**	**2.10 J**	<0.837	**5.91**
	5/20/2021			**0.789**	**0.00472 J**	**0.219**	**0.0770**	**3.43 J**	**6.92**	<0.902	**10.4**
	8/18/2021			**0.908**	**0.0466**	**0.198**	**0.123**	**4.99**	**6.53**	<0.900	**11.5**
	11/23/2021			**0.866**	**0.00553 J**	**0.314**	**0.203**	**3.54 J**	**7.05**	<0.867	**10.6**
	3/2/2022			**0.807**	<0.00367	**0.219**	**0.187**	**2.67 J**	**5.28**	<0.859	**7.95**
	5/25/2022			**0.790**	**0.157 J**	**0.319**	**0.625**	**2.92 J**	**4.47 J**	<0.856	**7.39**
	8/23/2022			**0.864**	<0.00367	**0.253**	**0.455**	**6.66**	**5.28**	<0.867	**11.9**
	11/8/2022			**1.07**	**0.00378 J**	**0.236**	**0.534**	**12.5**	**8.97**	<0.869	**21.5**
MW-11D	12/9/2019	NA	NA	**0.0155**	<0.00200	<0.00200	**0.00780**	<2.29	<2.29	<2.29	<2.29
	5/19/2020			**0.00197 J**	**0.000660 J**	<0.000657	**0.00113 J**	<0.902	<0.833	<0.833	<0.833
	11/11/2020			**0.0544**	**0.000760 J**	<0.000657	**0.001410 J**	<0.895	<0.827	<0.827	<0.827
	5/20/2021			**0.0352**	<0.000500	<0.000515	<0.000330	<0.929	<0.929	<0.897	<0.929
	8/18/2021			**0.000720 J**	**0.000776 J**	<0.000657	<0.000642	<0.947	<0.947	<0.914	<0.947
	11/23/2021			**0.00983**	<0.000367	<0.000657	<0.000642	**0.886 J**	<0.885	<0.854	**0.886 J**
	3/2/2022			**0.0123**	<0.000367	<0.000657	<0.000642	<0.882	<0.882	<0.851	<0.882
	5/25/2022			**0.00188 J**	<0.000367	<0.000657	<0.000642	<0.909	<0.909	<0.877	<0.909
	8/23/2022			**0.000427 J**	<0.000367	<0.000657	<0.000642	<0.893	<0.893	<0.862	<0.893
	11/8/2022			**0.0076**	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
MW-12S	6/29/2021	NA	NA	**0.527**	**0.115**	**0.125**	**0.625**	**4.00 J**	**2.12 J**	<0.849	**6.12**
	8/18/2021			**0.848**	**0.118**	**0.176**	**0.787**	**6.14**	**2.48 J**	<0.888	**8.62**
	11/23/2021			**1.34**	**0.0254**	**0.392**	**1.01**	**5.05**	**4.94**	<0.851	**9.99**
	3/2/2022			**0.800**	<0.000367	**0.019**	**0.00875**	**1.91 J**	**5.58**	<0.849	**7.49**
	5/25/2022			**1.34**	**0.264**	**0.470**	**0.242**	**2.74 J**	**2.32 J**	<0.875	**5.06**
	8/23/2022			**1.09**	<0.000367	**0.273**	**0.111**	**5.56**	**4.42 J**	<0.859	**9.98**
	11/8/2022			**1.42**	**0.00574 J**	**0.342**	**0.0561**	**5.86**	**5.44**	<0.869	**11.3**
MW-12D	6/29/2021	NA	NA	**0.252**	**0.00267**	<0.000657	**0.0135**	<0.906	**1.11 J**	<0.875	**1.11**
	8/18/2021			**0.232**	**0.00147 J**	**0.000711 J**	**0.00915**	<0.920	<0.920	<0.888	<0.920
	11/23/2021			**0.182**	**0.000658 J**	<0.000657	**0.000943 J**	<0.882	<0.882	<0.851	<0.882
	3/2/2022			**0.178**	<0.000367	<0.000657	<0.000642	<0.882	<0.882	<0.851	<0.882
	5/25/2022			**0.0276**	**0.000890 J**	<0.000657	**0.00216 J**	<0.890	<0.890	<0.859	<0.890
	8/23/2022			**0.00694**	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	11/8/2022			**0.00216**	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
MW-13S	6/29/2021			Not Sampled Due to Presence of PSH							
	8/18/2021			Not Sampled Due to Presence of PSH							
	11/23/2021			Not Sampled Due to Presence of PSH							
	3/1/2022			Not Sampled Due to Presence of PSH							
	5/24/2022			Not Sampled Due to Presence of PSH							
	8/22/2022			Not Sampled Due to Presence of PSH							
	11/8/2022			Not Sampled Due to Presence of PSH							
MW-13D	6/29/2021	NA	NA	**0.00446**	**0.00142 J**	**0.00123 J**	**0.00660**	<0.869	<0.869	<0.839	<0.869
	8/18/2021			**0.00189 J**	<0.000367	<0.000657	<0.000642	<0.956	<0.956	<0.923	<0.956
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	3/2/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.890	<0.890	<0.859	<0.890
	5/25/2022			**0.00226**	**0.000493 J**	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	8/23/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.895	<0.895	<0.864	<0.895

Concentrations in **bold** and shaded yellow exceed the applicable New Mexico Water Quality Control Comission Groundwater Quality Standards
Chlorides removed as a COC starting in May 2016
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
mg/L - milligrams per liter
NA - Not Analyzed
NE - Not Established

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-1	12/19/2014	3,065.725	11 - 36	--	8.77	--	3,056.96
	1/20/2015			--	9.02	--	3,056.71
	10/27/2015			--	7.50	--	3,058.23
	11/19/2015			--	7.68	--	3,058.05
	2/4/2016			--	7.66	--	3,058.07
	5/2/2016			--	8.73	--	3,057.00
	8/9/2016			--	9.17	--	3,056.56
	11/14/2016			7.69	8.15	0.46	3,057.97
	2/23/2017			--	8.50	--	3,057.23
	5/11/2017			9.35	11.75	2.40	3,056.02
	8/22/2017			8.83	9.90	1.07	3,056.73
	11/16/2017			8.25	8.34	0.09	3,057.46
	5/30/2018			9.80	11.24	1.44	3,055.71
	2/14/2019			8.17	8.91	0.74	3,057.44
	9/16/2019			8.34	9.04	0.70	3,057.28
	5/18/2020			8.19	9.95	1.76	3,057.27
	11/10/2020			9.70	12.49	2.79	3,055.61
	5/20/2021			11.13	13.43	2.30	3,054.25
	8/17/2021			9.72	12.11	2.39	3,055.65
	11/23/2021			9.47	12.04	2.57	3,055.87
	3/1/2022			11.54	13.70	2.16	3,053.86
	5/24/2022			10.99	13.09	2.10	3,054.42
	8/24/2022			10.23	12.89	2.66	3,055.10
	11/8/2022			8.85	12.05	3.20	3,056.40
MW-2	12/19/2014	3,064.625	9 - 34	7.05	13.36	6.31	3,056.63
	1/20/2015			6.75	17.80	11.05	3,056.22
	10/27/2015			3.49	17.39	13.90	3,059.05
	11/19/2015			4.11	19.38	15.27	3,058.22
	2/4/2016			4.49	18.53	14.04	3,058.03
	5/2/2016			5.99	17.57	11.58	3,056.90
	7/27/2016			8.40	8.62	0.22	3,056.19
	8/9/2016			8.30	8.46	0.16	3,056.30
	8/24/2016			7.19	7.54	0.35	3,057.38
	9/15/2016			5.42	7.67	2.25	3,058.87
	9/29/2016			5.84	8.60	2.76	3,058.37
	11/14/2016			6.23	8.45	2.22	3,058.06
	2/23/2017			6.81	12.50	5.69	3,056.96
	5/11/2017			8.72	8.78	0.06	3,055.90
	8/22/2017			7.80	8.16	0.36	3,056.77
	11/16/2017			7.25	7.65	0.40	3,057.32
	5/30/2018			9.09	9.87	0.78	3,055.42
	2/14/2019			7.64	9.72	2.08	3,056.67
	9/16/2019			6.50	17.50	11.00	3,056.48
	5/18/2020			7.16	15.00	7.84	3,056.29
	11/10/2020			8.49	18.84	10.35	3,054.58
	5/20/2021			9.27	20.26	10.99	3,053.71
	8/17/2021			7.05	23.35	16.30	3,055.13
	11/23/2021			4.45	17.85	13.40	3,058.17
	3/1/2022			9.74	18.63	8.89	3,053.55
	5/24/2022			10.00	17.62	7.62	3,053.48
	8/24/2022			9.90	14.55	4.65	3,054.03
	11/8/2022			7.70	20.20	12.50	3,055.05

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-3	12/19/2014	3,065.405	15 - 35	--	8.94	--	3,056.47
	1/20/2015			--	8.76	--	3,056.65
	10/27/2015			--	6.38	--	3,059.03
	11/19/2015			--	7.48	--	3,057.93
	2/4/2016			--	7.74	--	3,057.67
	5/2/2016			--	8.50	--	3,056.91
	8/9/2016			--	8.96	--	3,056.45
	11/14/2016			--	7.22	--	3,058.19
	2/23/2017			--	8.49	--	3,056.92
	5/11/2017			--	9.70	--	3,055.71
	8/22/2017			--	8.75	--	3,056.66
	11/16/2017			--	7.38	--	3,058.03
	5/30/2018			--	9.72	--	3,055.69
	2/14/2019			--	8.53	--	3,056.88
	9/16/2019			--	8.00	--	3,057.41
	5/18/2020			--	7.96	--	3,057.45
	11/10/2020			--	9.87	--	3,055.54
	5/20/2021			--	11.27	--	3,054.14
	8/17/2021			--	9.68	--	3,055.73
	11/23/2021			--	9.39	--	3,056.02
	3/1/2022			--	11.58	--	3,053.83
	5/24/2022			--	10.64	--	3,054.77
	8/22/2022			--	9.99	--	3,055.42
	11/8/2022			--	8.88	--	3,056.53
MW-4	12/19/2014	3,065.975	15 - 35	--	8.95	--	3,057.03
	1/20/2015			--	8.81	--	3,057.17
	10/27/2015			--	7.51	--	3,058.47
	11/19/2015			--	8.31	--	3,057.67
	2/4/2016			--	8.29	--	3,057.69
	5/2/2016			--	9.10	--	3,056.88
	8/9/2016			--	9.53	--	3,056.45
	11/14/2016			--	7.92	--	3,058.06
	2/23/2017			--	5.97	--	3,060.01
	5/11/2017			--	10.37	--	3,055.61
	8/22/2017			--	9.74	--	3,056.24
	11/16/2017			--	8.55	--	3,057.43
	5/30/2018			--	10.47	--	3,055.51
	2/14/2019			--	8.96	--	3,057.02
	9/16/2019			--	8.62	--	3,057.36
	5/18/2020			--	8.73	--	3,057.25
	11/10/2020			--	10.43	--	3,055.55
	5/20/2021			--	12.06	--	3,053.92
	8/17/2021			--	11.02	--	3,054.96
	11/23/2021			--	10.36	--	3,055.62
	3/1/2022			--	12.35	--	3,053.63
	5/24/2022			--	11.46	--	3,054.52
	8/22/2022			--	11.13	--	3,054.85
	11/8/2022			--	9.92	--	3,056.06

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-5	12/19/2014	3,065.445	11 - 36	--	8.20	--	3,057.25
	1/20/2015			--	8.50	--	3,056.95
	10/27/2015			--	6.46	--	3,058.99
	11/19/2015			--	6.84	--	3,058.61
	2/4/2016			--	6.75	--	3,058.70
	5/2/2016			--	7.80	--	3,057.65
	8/9/2016			--	7.33	--	3,058.12
	11/14/2016			--	7.07	--	3,058.38
	2/23/2017			--	7.71	--	3,057.74
	5/11/2017			--	8.86	--	3,056.59
	8/22/2017			--	8.54	--	3,056.91
	11/16/2017			--	7.76	--	3,057.69
	5/30/2018			--	9.54	--	3,055.91
	2/14/2019			--	7.99	--	3,057.46
	9/16/2019			--	8.32	--	3,057.13
	5/18/2020			--	8.44	--	3,057.01
	11/10/2020			--	10.02	--	3,055.43
	5/20/2021			--	11.10	--	3,054.35
	8/17/2021			--	9.79	--	3,055.66
	11/23/2021			--	9.64	--	3,055.81
	3/1/2022			--	11.53	--	3,053.92
	5/24/2022			--	11.40	--	3,054.05
	8/22/2022			--	10.68	--	3,054.77
	11/8/2022			--	9.44	--	3,056.01
MW-6	10/27/2015	3,063.680	5 - 35	--	3.58	--	3,060.10
	11/19/2015			--	4.98	--	3,058.70
	2/4/2016			--	5.18	--	3,058.50
	5/2/2016			--	6.49	--	3,057.19
	8/9/2016			--	7.33	--	3,056.35
	11/14/2016			--	5.46	--	3,058.22
	2/23/2017			--	6.41	--	3,057.27
	5/11/2017			--	7.54	--	3,056.14
	8/22/2017			--	6.88	--	3,056.80
	11/16/2017			--	5.39	--	3,058.29
	5/30/2018			--	8.31	--	3,055.37
	2/14/2019			--	6.74	--	3,056.94
	9/16/2019			--	7.40	--	3,056.28
	5/18/2020			--	7.68	--	3,056.00
	11/10/2020			--	9.28	--	3,054.40
	5/20/2021			--	9.75	--	3,053.93
	8/17/2021			--	7.82	--	3,055.86
	11/23/2021			--	8.49	--	3,055.19
	3/1/2022			--	10.41	--	3,053.27
	5/24/2022			--	10.65	--	3,053.03
	8/22/2022			--	9.67	--	3,054.01
	11/8/2022			--	8.30	--	3,055.38

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-7	10/27/2015	3,061.710	5 - 35	--	7.00	--	3,054.71
	11/19/2015			--	7.61	--	3,054.10
	2/4/2016			--	7.34	--	3,054.37
	5/2/2016			--	8.61	--	3,053.10
	8/9/2016			--	9.44	--	3,052.27
	11/14/2016			--	8.12	--	3,053.59
	2/23/2017			--	8.77	--	3,052.94
	5/11/2017			--	9.75	--	3,051.96
	8/22/2017			--	9.67	--	3,052.04
	11/16/2017			--	8.62	--	3,053.09
	5/30/2018			--	10.80	--	3,050.91
	2/14/2019			--	9.29	--	3,052.42
	9/16/2019			--	9.91	--	3,051.80
	5/18/2020			--	10.10	--	3,051.61
	11/10/2020			--	10.70	--	3,051.01
	5/20/2021			--	11.34	--	3,050.37
	8/17/2021			--	10.58	--	3,051.13
	11/23/2021			--	11.07	--	3,050.64
	3/1/2022			--	12.25	--	3,049.46
	5/24/2022			--	12.65	--	3,049.06
	8/22/2022			--	12.16	--	3,049.55
	11/8/2022			--	11.30	--	3,050.41
MW-8	10/27/2015	3,063.650	5 - 35	--	4.76	--	3,058.89
	11/19/2015			--	5.87	--	3,057.78
	2/4/2016			--	6.14	--	3,057.51
	5/2/2016			--	7.41	--	3,056.24
	8/9/2016			--	8.14	--	3,055.51
	11/14/2016			--	6.25	--	3,057.40
	2/23/2017			--	7.20	--	3,056.45
	5/11/2017			--	8.32	--	3,055.33
	8/22/2017			--	7.83	--	3,055.82
	11/16/2017			--	6.26	--	3,057.39
	5/30/2018			--	8.96	--	3,054.69
	2/14/2019			--	7.44	--	3,056.21
	9/16/2019			--	7.80	--	3,055.85
	5/18/2020			--	7.89	--	3,055.76
	11/10/2020			--	8.39	--	3,055.26
	5/20/2021			--	10.29	--	3,053.36
	8/17/2021			--	8.76	--	3,054.89
	11/23/2021			--	8.99	--	3,054.66
	3/1/2022			--	10.81	--	3,052.84
	5/24/2022			--	10.82	--	3,052.83
	8/22/2022			--	9.88	--	3,053.77
	11/8/2022			--	8.76	--	3,054.89

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-9	10/27/2015	3,067.020	5 - 35	--	11.26	--	3,055.76
	11/19/2015			--	11.60	--	3,055.42
	2/4/2016			--	11.00	--	3,056.02
	5/2/2016			--	12.18	--	3,054.84
	8/9/2016			--	12.92	--	3,054.10
	11/14/2016			--	11.04	--	3,055.98
	2/23/2017			--	11.84	--	3,055.18
	5/11/2017			--	12.97	--	3,054.05
	8/22/2017			--	12.99	--	3,054.03
	11/16/2017			--	11.94	--	3,055.08
	5/30/2018			--	13.20	--	3,053.82
	2/14/2019			--	11.56	--	3,055.46
	9/16/2019			--	11.59	--	3,055.43
	5/18/2020			--	11.63	--	3,055.39
	11/10/2020			--	13.10	--	3,053.92
	5/20/2021			--	14.74	--	3,052.28
	8/17/2021			--	14.22	--	3,052.80
	11/23/2021			--	13.88	--	3,053.14
	3/1/2022			--	14.95	--	3,052.07
	5/24/2022			--	14.36	--	3,052.66
	8/22/2022			--	14.72	--	3,052.30
	11/8/2022			--	13.62	--	3,053.40
MW-10	10/27/2015	3,064.210	5 - 35	--	4.99	--	3,059.22
	11/19/2015			--	6.26	--	3,057.95
	2/4/2016			--	6.46	--	3,057.75
	5/2/2016			--	7.41	--	3,056.80
	8/9/2016			--	7.97	--	3,056.24
	11/14/2016			--	6.18	--	3,058.03
	2/23/2017			--	7.30	--	3,056.91
	5/11/2017			--	8.49	--	3,055.72
	8/22/2017			--	7.75	--	3,056.46
	11/16/2017			--	6.24	--	3,057.97
	5/30/2018			--	8.83	--	3,055.38
	2/14/2019			--	7.46	--	3,056.75
	9/16/2019			--	7.40	--	3,056.81
	5/18/2020			--	7.48	--	3,056.73
	11/10/2020			--	9.21	--	3,055.00
	5/20/2021			--	10.28	--	3,053.93
	8/17/2021			--	8.54	--	3,055.67
	11/23/2021			8.69	8.70	0.01	3,055.51
	3/1/2022			10.76	10.83	0.07	3,053.38
	5/24/2022			--	10.34	--	3,053.87
	8/24/2022			9.47	9.68	0.21	3,054.53
	11/8/2022			8.15	8.82	0.67	3,055.39

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-11S	12/9/2019	3,065.920	2.5 - 22	--	8.78	--	3,057.14
	5/18/2020			--	8.88	--	3,057.04
	11/10/2020			--	10.24	--	3,055.68
	5/20/2021			--	11.91	--	3,054.01
	8/17/2021			--	10.71	--	3,055.21
	11/23/2021			--	10.34	--	3,055.58
	3/1/2022			--	12.29	--	3,053.63
	5/24/2022			--	11.78	--	3,054.14
	8/22/2022			--	11.01	--	3,054.91
	11/8/2022			--	9.88	--	3,056.04
MW-11D	12/9/2019	3,065.870	30 - 40	--	8.78	--	3,057.09
	5/18/2020			--	8.92	--	3,056.95
	11/10/2020			--	10.60	--	3,055.27
	5/20/2021			--	11.96	--	3,053.91
	8/17/2021			--	10.61	--	3,055.26
	11/23/2021			--	10.34	--	3,055.53
	3/1/2022			--	12.33	--	3,053.54
	5/24/2022			--	11.72	--	3,054.15
	8/22/2022			--	11.14	--	3,054.73
	11/8/2022			--	9.88	--	3,055.99
MW-12S	6/29/2021	3,065.65	5 - 20	--	10.96	--	3,054.69
	8/17/2021			--	10.71	--	3,054.94
	11/23/2021			--	9.75	--	3,055.90
	3/1/2022			--	11.80	--	3,053.85
	5/24/2022			--	11.30	--	3,054.35
	8/22/2022			--	10.38	--	3,055.27
	11/8/2022			--	9.45	--	3,056.20
MW-12D	6/29/2021	3,065.65	30 - 40	--	11.61	--	3,054.04
	8/17/2021			--	10.30	--	3,055.35
	11/23/2021			--	9.98	--	3,055.67
	3/1/2022			--	12.01	--	3,053.64
	5/24/2022			--	11.35	--	3,054.30
	8/22/2022			--	10.78	--	3,054.87
	11/8/2022			--	9.53	--	3,056.12
MW-13S	6/29/2021	3,064.42	2 - 17	8.18	8.33	0.15	3,056.22
	8/17/2021			4.91	6.78	1.87	3,059.23
	11/23/2021			7.73	9.03	1.30	3,056.50
	3/1/2022			9.81	10.71	0.90	3,054.48
	5/24/2022			10.17	10.29	0.12	3,054.23
	8/24/2022			8.94	10.15	1.21	3,055.30
	11/8/2022			7.23	8.70	1.47	3,056.97
MW-13D	6/29/2021	3,064.45	30 - 40	--	10.24	--	3,054.21
	8/17/2021			--	8.95	--	3,055.50
	11/23/2021			--	8.57	--	3,055.88
	3/1/2022			--	10.92	--	3,053.53
	5/24/2022			--	10.65	--	3,053.80
	8/22/2022			--	9.73	--	3,054.72
	11/8/2022			--	8.50	--	3,055.95

AMSL - above mean sea level
-- No PSH present during gauging event
NS - Not Surveyed

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TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample I.D.	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-1	9/16/2019	Not sampled due to presence of PSH				
	5/19/2020	Not sampled due to presence of PSH				
	11/10/2020	Not sampled due to presence of PSH				
	5/20/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
	3/1/2022	Not sampled due to presence of PSH				
	5/24/2022	Not sampled due to presence of PSH				
	8/24/2022	Not sampled due to presence of PSH				
	11/8/2022	Not sampled due to presence of PSH				
MW-2	9/16/2019	Not sampled due to presence of PSH				
	5/19/2020	Not sampled due to presence of PSH				
	11/10/2020	Not sampled due to presence of PSH				
	5/20/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
	3/1/2022	Not sampled due to presence of PSH				
	5/24/2022	Not sampled due to presence of PSH				
	8/24/2022	Not sampled due to presence of PSH				
	11/8/2022	Not sampled due to presence of PSH				
MW-3	9/16/2019	28.7	6.63	0.35	101.0	7.64
	5/19/2020	22.0	6.77	2.11	168.1	9.54
	11/10/2020	19.8	6.58	1.15	97.8	8.14
	5/20/2021	21.2	6.36	2.42	141.9	7.43
	8/17/2021	30.8	6.97	0.95	131.5	8.93
	11/23/2021	18.7	6.89	1.04	88.1	7.44
	3/1/2022	19.8	5.51	0.74	145.8	9.28
	5/24/2022	21.87	6.79	5.13	224.3	0.01
	8/22/2022	22.65	7.09	0.13	123.0	8.70
	11/8/2022	21.23	6.97	1.67	156.5	8.63
MW-4	9/16/2019	27.7	6.29	0.34	115.8	8.45
	5/19/2020	21.4	6.28	1.21	194.2	9.35
	11/10/2020	19.4	6.16	2.01	116.5	8.14
	5/20/2021	21.1	6.32	1.89	173.8	7.18
	8/17/2021	25.3	6.69	0.12	132.5	9.06
	11/23/2021	18.6	6.57	0.04	106.0	7.78
	3/1/2022	18.5	5.73	1.13	174.0	9.25
	5/24/2022	21.51	6.61	2.42	233.4	0.01
	8/22/2022	22.58	6.82	0.11	129.4	8.44
	11/8/2022	21.11	6.64	0.12	169.0	9.27

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TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample I.D.	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-5	9/17/2019	28.6	6.51	0.30	117.8	5.56
	5/19/2020	28.2	6.47	0.44	171.7	6.11
	11/11/2020	17.6	6.41	1.45	58.2	5.76
	5/20/2021	21.6	6.37	1.40	143.5	4.94
	8/17/2021	24.3	6.72	0.13	135.0	5.90
	11/23/2021	19.2	6.67	0.02	105.6	4.96
	3/2/2022	18.4	5.23	5.37	146.7	5.91
	5/25/2022	20.27	6.79	3.02	244.1	0.01
	8/23/2022	21.68	6.92	0.13	141.9	5.82
	11/8/2022	24.30	6.74	0.19	-211.7	5.49
MW-6	9/17/2019	29.8	6.84	0.62	117.2	4.35
	5/19/2020	26.9	6.81	0.54	152.8	4.76
	11/11/2020	19.3	6.91	4.78	85.6	4.26
	5/20/2021	21.6	6.56	2.20	161.9	3.30
	8/17/2021	24.2	7.06	0.30	123.6	4.49
	11/23/2021	19.9	6.98	0.44	81.6	3.94
	3/2/2022	18.9	4.99	0.94	126.6	4.64
	5/24/2022	23.55	6.98	3.67	189.2	0.01
	8/23/2022	22.09	7.30	1.51	122.7	4.41
	11/8/2022	22.18	7.05	0.61	143.9	4.73
MW-7	9/17/2019	25.5	6.57	0.36	106.0	6.45
	5/19/2020	23.5	6.59	5.13	168.9	7.35
	11/11/2020	14.9	6.62	0.73	73.4	6.88
	5/20/2021	23.1	6.48	1.55	140.2	6.16
	8/17/2021	24.2	6.84	0.23	139.4	7.21
	11/23/2021	16.7	6.79	0.72	101.2	5.84
	3/2/2022	17.9	5.47	1.33	152.3	7.24
	5/24/2022	23.08	6.82	3.42	203.7	0.01
	8/22/2022	23.33	7.10	0.40	119.3	6.92
	11/8/2022	22.08	6.84	0.56	144.8	7.17
MW-8	9/17/2019	24.4	6.56	0.63	141.5	6.70
	5/19/2020	24.6	6.52	0.50	179.6	7.86
	11/11/2020	22.0	6.43	0.55	85.8	6.91
	5/20/2021	22.6	6.46	1.45	139.7	6.15
	8/17/2021	24.3	6.78	0.14	133.2	7.81
	11/23/2021	19.3	6.71	0.28	93.0	6.85
	3/1/2022	19.9	5.35	0.91	142.5	7.67
	5/24/2022	23.09	6.78	2.66	191.0	0.01
	8/22/2022	23.11	7.01	0.18	135.7	7.50
	11/8/2022	21.27	6.77	0.13	145.0	7.69

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TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample I.D.	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-9	9/16/2019	31.0	6.76	0.52	39.9	7.25
	5/19/2020	28.1	6.79	0.97	173.2	7.68
	11/11/2020	20.0	6.61	0.31	33.5	6.77
	5/20/2021	20.0	6.39	2.18	251.7	5.70
	8/17/2021	22.8	7.06	0.44	97.3	7.37
	11/23/2021	19.6	6.94	0.03	109.6	6.47
	3/2/2022	21.1	5.47	0.89	156.6	7.53
	5/25/2022	20.90	6.63	6.15	210.7	0.01
	8/23/2022	20.27	7.14	0.25	124.3	7.22
	11/8/2022	21.25	7.04	1.60	144.6	7.53
MW-10	5/19/2020	27.7	5.96	0.45	11.8	5.53
	11/11/2020	19.9	5.87	0.39	46.9	4.66
	5/20/2021	23.2	6.34	1.69	154.3	3.99
	8/18/2021	21.4	6.28	0.21	102.4	5.15
	11/23/2021	Not sampled due to presence of PSH				
	3/1/2022	Not sampled due to presence of PSH				
	5/25/2022	20.20	6.32	1.90	178.6	0.01
	8/24/2022	Not sampled due to presence of PSH				
	11/8/2022	Not sampled due to presence of PSH				
MW-11S	12/9/2019	19.23	7.12	0.09	-339.2	5.41
	5/19/2020	25.7	6.51	0.24	-260.8	6.03
	11/11/2020	22.9	6.49	0.13	-264.9	5.11
	5/20/2021	24.8	6.44	0.80	-331.4	4.76
	8/18/2021	22.7	6.77	0.12	-345.6	5.65
	11/23/2021	21.8	6.72	0.03	-324.8	4.84
	3/2/2022	22.7	8.20	0.74	-361.0	5.55
	5/25/2022	22.32	6.68	1.00	-328.8	0.01
	8/23/2022	23.33	6.95	0.06	-366.3	5.45
	11/8/2022	23.70	6.66	0.03	-351.0	5.82
MW-11D	12/9/2019	18.73	6.65	0.29	-189.0	6.69
	5/19/2020	27.4	6.33	0.69	-82.9	7.90
	11/11/2020	22.5	6.09	3.16	49.0	7.38
	5/20/2021	24.5	6.35	1.17	163.8	6.75
	8/18/2021	22.0	6.58	0.20	134.5	7.90
	11/23/2021	20.9	6.50	0.03	119.4	6.99
	3/2/2022	21.5	5.67	0.90	149.4	5.67
	5/25/2022	22.30	6.63	3.56	211.6	0.02
	8/23/2022	22.24	6.82	0.12	136.0	7.60
	11/8/2022	22.60	6.60	0.35	148.0	7.92

ENSOLUM

TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample I.D.	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-12S	6/29/2021	23.6	6.40	0.05	-264.5	8.89
	8/18/2021	24.3	6.42	0.06	-302.8	8.89
	11/23/2021	22.1	6.30	0.02	-272.0	7.11
	3/2/2022	25.9	5.58	0.50	-264.2	8.20
	5/25/2022	22.02	6.38	1.37	-280.2	0.02
	8/23/2022	24.63	6.70	0.00	-361.3	7.66
	11/8/2022	23.70	6.42	0.04	-278.0	7.95
MW-12D	6/29/2021	26.4	6.27	1.67	96.4	9.19
	8/18/2021	24.5	6.33	0.26	-206.7	9.30
	11/23/2021	21.2	6.29	0.04	-236.4	8.17
	3/2/2022	22.8	6.37	3.14	-223.0	0.02
	5/25/2022	22.82	6.37	3.14	-223.0	0.02
	8/23/2022	22.31	6.67	0.12	-231.5	8.77
	11/8/2022	22.16	6.43	0.27	-199.5	8.95
MW-13S	6/29/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
	3/1/2022	Not sampled due to presence of PSH				
	5/25/2022	Not sampled due to presence of PSH				
	8/24/2022	Not sampled due to presence of PSH				
	11/8/2022	Not sampled due to presence of PSH				
MW-13D	6/29/2021	24.3	6.70	0.33	-6.0	5.29
	8/18/2021	22.1	6.85	0.22	119.2	5.28
	11/23/2021	21.8	6.84	0.02	-222.4	4.84
	3/2/2022	20.7	5.20	1.35	131.8	5.28
	5/25/2022	20.50	6.84	3.23	224.5	0.01
	8/23/2022	22.30	7.08	0.17	-254.1	5.16
	11/8/2022	21.78	6.84	1.35	-159.0	5.46

°C - degrees celsius
mg/L - milligrams per liter
mV - millivolts
mS/cm - millisiemens per centimeter

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-11987-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: South Carlsbad
Revision: 1

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
4/1/2022 10:32:50 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad

Laboratory Job ID: 880-11987-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Job ID: 880-11987-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-11987-1

REVISION

The report being provided is a revision of the original report sent on 3/14/2022. The report (revision 1) is being revised due to Per client email, corrected sample ID from MW-115 to MW-11S.

Report revision history

Receipt
The samples were received on 3/3/2022 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-21209 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-21149/5-A) and (MB 880-21209/39). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: MW-5 (880-11987-3). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-3

Date Collected: 03/01/22 14:20
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1 *-	0.00200	0.000408	mg/L			03/10/22 08:51	1
Toluene	<0.000367	U *1 *-	0.00200	0.000367	mg/L			03/10/22 08:51	1
Ethylbenzene	<0.000657	U *1 *-	0.00200	0.000657	mg/L			03/10/22 08:51	1
m-Xylene & p-Xylene	<0.000629	U *1 *-	0.00400	0.000629	mg/L			03/10/22 08:51	1
o-Xylene	<0.000642	U *1 *-	0.00200	0.000642	mg/L			03/10/22 08:51	1
Xylenes, Total	<0.000642	U *1 *-	0.00400	0.000642	mg/L			03/10/22 08:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*03/10/22 08:51*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*		*03/10/22 08:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 12:41	1
Diesel Range Organics (Over C10-C28)	<0.887	U F1	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 12:41	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		03/11/22 14:44	03/13/22 12:41	1
Total TPH	<0.887	U	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*03/11/22 14:44*	*03/13/22 12:41*	*1*
o-Terphenyl	*123*		*70 - 130*	*03/11/22 14:44*	*03/13/22 12:41*	*1*

Client Sample ID: MW-4

Date Collected: 03/01/22 13:50
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1 *-	0.00200	0.000408	mg/L			03/10/22 09:19	1
Toluene	<0.000367	U *1 *-	0.00200	0.000367	mg/L			03/10/22 09:19	1
Ethylbenzene	<0.000657	U *1 *-	0.00200	0.000657	mg/L			03/10/22 09:19	1
m-Xylene & p-Xylene	<0.000629	U *1 *-	0.00400	0.000629	mg/L			03/10/22 09:19	1
o-Xylene	<0.000642	U *1 *-	0.00200	0.000642	mg/L			03/10/22 09:19	1
Xylenes, Total	<0.000642	U *1 *-	0.00400	0.000642	mg/L			03/10/22 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*03/10/22 09:19*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*03/10/22 09:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 15:18	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-4

Date Collected: 03/01/22 13:50
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-2
Matrix: Water

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.10**	**J**	4.52	0.893	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.10**	**J**	4.52	0.893	mg/L		03/11/22 14:44	03/13/22 13:46	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		03/11/22 14:44	03/13/22 13:46	1
Oil Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		03/11/22 14:44	03/13/22 13:46	1
Total TPH	**1.10**	**J**	4.52	0.893	mg/L		03/11/22 14:44	03/13/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*03/11/22 14:44*	*03/13/22 13:46*	*1*
o-Terphenyl	*106*		*70 - 130*	*03/11/22 14:44*	*03/13/22 13:46*	*1*

Client Sample ID: MW-5

Date Collected: 03/02/22 09:00
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/05/22 19:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 19:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 19:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 19:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 19:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/05/22 19:25*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*		*03/05/22 19:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 14:08	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 14:08	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		03/11/22 14:44	03/13/22 14:08	1
Total TPH	<0.887	U	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*03/11/22 14:44*	*03/13/22 14:08*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*03/11/22 14:44*	*03/13/22 14:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-6
Date Collected: 03/02/22 08:50
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/05/22 19:52	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 19:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 19:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 19:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 19:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*		*03/05/22 19:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/05/22 19:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 14:29	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 14:29	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		03/11/22 14:44	03/13/22 14:29	1
Total TPH	<0.887	U	4.49	0.887	mg/L		03/11/22 14:44	03/13/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*03/11/22 14:44*	*03/13/22 14:29*	*1*
o-Terphenyl	*116*		*70 - 130*	*03/11/22 14:44*	*03/13/22 14:29*	*1*

Client Sample ID: MW-7
Date Collected: 03/02/22 08:15
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-5
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/05/22 20:18	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 20:18	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 20:18	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 20:18	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 20:18	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*03/05/22 20:18*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*03/05/22 20:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 15:18	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-7

Date Collected: 03/02/22 08:15
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-5
Matrix: Water

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.880	U	4.45	0.880	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.880	U	4.45	0.880	mg/L		03/11/22 14:44	03/13/22 14:51	1
Diesel Range Organics (Over C10-C28)	<0.880	U	4.45	0.880	mg/L		03/11/22 14:44	03/13/22 14:51	1
Oil Range Organics (Over C28-C36)	<0.849	U	4.45	0.849	mg/L		03/11/22 14:44	03/13/22 14:51	1
Total TPH	<0.880	U	4.45	0.880	mg/L		03/11/22 14:44	03/13/22 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/11/22 14:44*	*03/13/22 14:51*	*1*
o-Terphenyl	*110*		*70 - 130*	*03/11/22 14:44*	*03/13/22 14:51*	*1*

Client Sample ID: MW-8

Date Collected: 03/01/22 14:55
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/05/22 20:45	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 20:45	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 20:45	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 20:45	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 20:45	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/05/22 20:45*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*		*03/05/22 20:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.904	U	4.57	0.904	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		03/11/22 14:44	03/13/22 15:12	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		03/11/22 14:44	03/13/22 15:12	1
Oil Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		03/11/22 14:44	03/13/22 15:12	1
Total TPH	<0.904	U	4.57	0.904	mg/L		03/11/22 14:44	03/13/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*03/11/22 14:44*	*03/13/22 15:12*	*1*
o-Terphenyl	*113*		*70 - 130*	*03/11/22 14:44*	*03/13/22 15:12*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-9

Date Collected: 03/02/22 10:00
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-7
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0638**		0.00200	0.000408	mg/L			03/05/22 21:12	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 21:12	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 21:12	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 21:12	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 21:12	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*03/05/22 21:12*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*03/05/22 21:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0638**		0.00400	0.000657	mg/L			03/14/22 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.885	U	4.48	0.885	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.885	U	4.48	0.885	mg/L		03/11/22 14:44	03/13/22 15:33	1
Diesel Range Organics (Over C10-C28)	<0.885	U	4.48	0.885	mg/L		03/11/22 14:44	03/13/22 15:33	1
Oil Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		03/11/22 14:44	03/13/22 15:33	1
Total TPH	<0.885	U	4.48	0.885	mg/L		03/11/22 14:44	03/13/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*03/11/22 14:44*	*03/13/22 15:33*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/11/22 14:44*	*03/13/22 15:33*	*1*

Client Sample ID: MW-11S

Date Collected: 03/02/22 12:00
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-8
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.807**		0.0200	0.00408	mg/L			03/05/22 23:27	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/05/22 23:27	10
Ethylbenzene	**0.219**		0.0200	0.00657	mg/L			03/05/22 23:27	10
m-Xylene & p-Xylene	**0.187**		0.0400	0.00629	mg/L			03/05/22 23:27	10
o-Xylene	<0.00642	U	0.0200	0.00642	mg/L			03/05/22 23:27	10
Xylenes, Total	**0.187**		0.0400	0.00642	mg/L			03/05/22 23:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*03/05/22 23:27*	*10*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*03/05/22 23:27*	*10*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.21**		0.0400	0.00657	mg/L			03/14/22 15:18	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-11S

Date Collected: 03/02/22 12:00
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-8
Matrix: Water

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7.95**		4.50	0.890	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.67**	**J**	4.50	0.890	mg/L		03/11/22 14:44	03/13/22 15:54	1
Diesel Range Organics (Over C10-C28)	**5.28**		4.50	0.890	mg/L		03/11/22 14:44	03/13/22 15:54	1
Oil Range Organics (Over C28-C36)	<0.859	U	4.50	0.859	mg/L		03/11/22 14:44	03/13/22 15:54	1
Total TPH	**7.95**		4.50	0.890	mg/L		03/11/22 14:44	03/13/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*03/11/22 14:44*	*03/13/22 15:54*	*1*
o-Terphenyl	*98*		*70 - 130*	*03/11/22 14:44*	*03/13/22 15:54*	*1*

Client Sample ID: MW-11D

Date Collected: 03/02/22 11:15
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-9
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0123**		0.00200	0.000408	mg/L			03/05/22 21:39	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 21:39	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 21:39	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 21:39	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 21:39	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/05/22 21:39*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*		*03/05/22 21:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0123**		0.00400	0.000657	mg/L			03/14/22 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.882	U	4.46	0.882	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.882	U	4.46	0.882	mg/L		03/11/22 14:44	03/13/22 16:15	1
Diesel Range Organics (Over C10-C28)	<0.882	U	4.46	0.882	mg/L		03/11/22 14:44	03/13/22 16:15	1
Oil Range Organics (Over C28-C36)	<0.851	U	4.46	0.851	mg/L		03/11/22 14:44	03/13/22 16:15	1
Total TPH	<0.882	U	4.46	0.882	mg/L		03/11/22 14:44	03/13/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*03/11/22 14:44*	*03/13/22 16:15*	*1*
o-Terphenyl	*115*		*70 - 130*	*03/11/22 14:44*	*03/13/22 16:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-125

Date Collected: 03/02/22 14:15
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-10
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.800**	***1 *-**	0.200	0.0408	mg/L			03/10/22 09:46	100
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 23:00	1
Ethylbenzene	**0.0193**		0.00200	0.000657	mg/L			03/05/22 23:00	1
m-Xylene & p-Xylene	**0.00875**		0.00400	0.000629	mg/L			03/05/22 23:00	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 23:00	1
Xylenes, Total	**0.00875**		0.00400	0.000642	mg/L			03/05/22 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/05/22 23:00*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*		*03/05/22 23:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.828**		0.00400	0.000657	mg/L			03/14/22 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7.49**		4.45	0.880	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.91**	**J**	4.45	0.880	mg/L		03/11/22 14:44	03/13/22 16:37	1
Diesel Range Organics (Over C10-C28)	**5.58**		4.45	0.880	mg/L		03/11/22 14:44	03/13/22 16:37	1
Oil Range Organics (Over C28-C36)	<0.849	U	4.45	0.849	mg/L		03/11/22 14:44	03/13/22 16:37	1
Total TPH	**7.49**		4.45	0.880	mg/L		03/11/22 14:44	03/13/22 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*03/11/22 14:44*	*03/13/22 16:37*	*1*
o-Terphenyl	*106*		*70 - 130*	*03/11/22 14:44*	*03/13/22 16:37*	*1*

Client Sample ID: MW-12D

Date Collected: 03/02/22 12:45
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-11
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.178**		0.00200	0.000408	mg/L			03/05/22 22:06	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 22:06	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 22:06	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 22:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 22:06	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*03/05/22 22:06*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*		*03/05/22 22:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.178**		0.00400	0.000657	mg/L			03/14/22 15:18	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-12D

Date Collected: 03/02/22 12:45
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-11
Matrix: Water

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.882	U	4.46	0.882	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.882	U	4.46	0.882	mg/L		03/11/22 14:44	03/13/22 17:19	1
Diesel Range Organics (Over C10-C28)	<0.882	U	4.46	0.882	mg/L		03/11/22 14:44	03/13/22 17:19	1
Oil Range Organics (Over C28-C36)	<0.851	U	4.46	0.851	mg/L		03/11/22 14:44	03/13/22 17:19	1
Total TPH	<0.882	U	4.46	0.882	mg/L		03/11/22 14:44	03/13/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/11/22 14:44*	*03/13/22 17:19*	*1*
o-Terphenyl	*109*		*70 - 130*	*03/11/22 14:44*	*03/13/22 17:19*	*1*

Client Sample ID: MW-13D

Date Collected: 03/02/22 10:40
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-12
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/05/22 22:33	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 22:33	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 22:33	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 22:33	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 22:33	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/05/22 22:33*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*		*03/05/22 22:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 15:18	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.890	U	4.50	0.890	mg/L			03/14/22 11:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.890	U	4.50	0.890	mg/L		03/11/22 14:44	03/13/22 17:40	1
Diesel Range Organics (Over C10-C28)	<0.890	U	4.50	0.890	mg/L		03/11/22 14:44	03/13/22 17:40	1
Oil Range Organics (Over C28-C36)	<0.859	U	4.50	0.859	mg/L		03/11/22 14:44	03/13/22 17:40	1
Total TPH	<0.890	U	4.50	0.890	mg/L		03/11/22 14:44	03/13/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/11/22 14:44*	*03/13/22 17:40*	*1*
o-Terphenyl	*123*		*70 - 130*	*03/11/22 14:44*	*03/13/22 17:40*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-11987-1	MW-3	90	119
880-11987-2	MW-4	96	106
880-11987-3	MW-5	102	113
880-11987-4	MW-6	72	97
880-11987-5	MW-7	84	101
880-11987-6	MW-8	92	115
880-11987-7	MW-9	86	103
880-11987-8	MW-11S	81	87
880-11987-9	MW-11D	92	117
880-11987-10	MW-125	94	118
880-11987-11	MW-12D	96	120
880-11987-12	MW-13D	98	113
880-11992-A-1 MS	Matrix Spike	81	115
880-11992-A-1 MSD	Matrix Spike Duplicate	77	108
890-2039-A-1 MS	Matrix Spike	77	122
890-2039-A-1 MSD	Matrix Spike Duplicate	80	98
LCS 880-20952/3	Lab Control Sample	91	117
LCS 880-21209/34	Lab Control Sample	72	114
LCSD 880-20952/4	Lab Control Sample Dup	73	104
LCSD 880-21209/35	Lab Control Sample Dup	87	125
MB 880-20952/8	Method Blank	48 S1-	106
MB 880-21149/5-A	Method Blank	46 S1-	100
MB 880-21209/39	Method Blank	51 S1-	108

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-11987-1	MW-3	107	123
880-11987-1 MS	MW-3	83	86
880-11987-1 MSD	MW-3	82	85
880-11987-2	MW-4	97	106
880-11987-3	MW-5	120	137 S1+
880-11987-4	MW-6	104	116
880-11987-5	MW-7	99	110
880-11987-6	MW-8	103	113
880-11987-7	MW-9	92	101
880-11987-8	MW-11S	87	98
880-11987-9	MW-11D	103	115
880-11987-10	MW-125	96	106
880-11987-11	MW-12D	99	109
880-11987-12	MW-13D	110	123

Surrogate Legend

1CO = 1-Chlorooctane

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad
Job ID: 880-11987-1
SDG: Carlsbad NM

OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO2	OTPH2										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
LCS 880-21407/2-A	Lab Control Sample	91	99										
LCSD 880-21407/3-A	Lab Control Sample Dup	110	119										
MB 880-21407/1-A	Method Blank	99	120										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20952/8
Matrix: Water
Analysis Batch: 20952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/05/22 13:13	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/05/22 13:13	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/05/22 13:13	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/05/22 13:13	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/05/22 13:13	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/05/22 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*48*	*S1-*	*70 - 130*		*03/05/22 13:13*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*03/05/22 13:13*	*1*

Lab Sample ID: LCS 880-20952/3
Matrix: Water
Analysis Batch: 20952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1087		mg/L		109	70 - 130		
Toluene			0.100	0.1009		mg/L		101	70 - 130		
Ethylbenzene			0.100	0.1060		mg/L		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2160		mg/L		108	70 - 130		
o-Xylene			0.100	0.1043		mg/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: LCSD 880-20952/4
Matrix: Water
Analysis Batch: 20952

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
Benzene			0.100	0.09318		mg/L		93	70 - 130	15	20
Toluene			0.100	0.08670		mg/L		87	70 - 130	15	20
Ethylbenzene			0.100	0.09258		mg/L		93	70 - 130	13	20
m-Xylene & p-Xylene			0.200	0.1890		mg/L		95	70 - 130	13	20
o-Xylene			0.100	0.09202		mg/L		92	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-21149/5-A
Matrix: Water
Analysis Batch: 21209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21149

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/09/22 08:30	03/09/22 15:28	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/09/22 08:30	03/09/22 15:28	1

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-21149/5-A
Matrix: Water
Analysis Batch: 21209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21149

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/09/22 08:30	03/09/22 15:28	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/09/22 08:30	03/09/22 15:28	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/09/22 08:30	03/09/22 15:28	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/09/22 08:30	03/09/22 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*46*	*S1-*	*70 - 130*	*03/09/22 08:30*	*03/09/22 15:28*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/09/22 08:30*	*03/09/22 15:28*	*1*

Lab Sample ID: MB 880-21209/39
Matrix: Water
Analysis Batch: 21209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/10/22 05:16	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/10/22 05:16	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/10/22 05:16	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/10/22 05:16	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/10/22 05:16	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/10/22 05:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*51*	*S1-*	*70 - 130*		*03/10/22 05:16*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*		*03/10/22 05:16*	*1*

Lab Sample ID: LCS 880-21209/34
Matrix: Water
Analysis Batch: 21209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.05586	*-	mg/L		56	70 - 130		
Toluene			0.100	0.05103	*-	mg/L		51	70 - 130		
Ethylbenzene			0.100	0.05596	*-	mg/L		56	70 - 130		
m-Xylene & p-Xylene			0.200	0.1148	*-	mg/L		57	70 - 130		
o-Xylene			0.100	0.05962	*-	mg/L		60	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-21209/35
Matrix: Water
Analysis Batch: 21209

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
Benzene			0.100	0.09619	*1	mg/L		96	70 - 130	53	20
Toluene			0.100	0.08756	*1	mg/L		88	70 - 130	53	20
Ethylbenzene			0.100	0.09130	*1	mg/L		91	70 - 130	48	20

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-21209/35
Matrix: Water
Analysis Batch: 21209

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
m-Xylene & p-Xylene			0.200	0.1871	*1	mg/L		94	70 - 130	48	20
o-Xylene			0.100	0.09391	*1	mg/L		94	70 - 130	45	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-21407/1-A
Matrix: Water
Analysis Batch: 21518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21407

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		03/11/22 14:44	03/13/22 11:37	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		03/11/22 14:44	03/13/22 11:37	1
Oil Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		03/11/22 14:44	03/13/22 11:37	1
Total TPH	<0.904	U	4.57	0.904	mg/L		03/11/22 14:44	03/13/22 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/11/22 14:44*	*03/13/22 11:37*	*1*
o-Terphenyl	*120*		*70 - 130*	*03/11/22 14:44*	*03/13/22 11:37*	*1*

Lab Sample ID: LCS 880-21407/2-A
Matrix: Water
Analysis Batch: 21518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21407

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			91.7	84.34		mg/L		92	75 - 125		
Diesel Range Organics (Over C10-C28)			91.7	83.02		mg/L		90	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-21407/3-A
Matrix: Water
Analysis Batch: 21518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21407

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			92.0	102.1		mg/L		111	75 - 125	19	20
Diesel Range Organics (Over C10-C28)			92.0	92.36		mg/L		100	75 - 125	11	20

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-21407/3-A
Matrix: Water
Analysis Batch: 21518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21407

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 880-11987-1 MS
Matrix: Water
Analysis Batch: 21518

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	90.1	72.86		mg/L		81	75 - 125		
Diesel Range Organics (Over C10-C28)	<0.887	U F1	90.1	63.33	F1	mg/L		70	75 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 880-11987-1 MSD
Matrix: Water
Analysis Batch: 21518

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 21407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	90.4	73.01		mg/L		81	75 - 125	0	20
Diesel Range Organics (Over C10-C28)	<0.887	U F1	90.4	63.15	F1	mg/L		70	75 - 125	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

GC VOA

Analysis Batch: 20952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11987-3	MW-5	Total/NA	Water	8021B	
880-11987-4	MW-6	Total/NA	Water	8021B	
880-11987-5	MW-7	Total/NA	Water	8021B	
880-11987-6	MW-8	Total/NA	Water	8021B	
880-11987-7	MW-9	Total/NA	Water	8021B	
880-11987-8	MW-11S	Total/NA	Water	8021B	
880-11987-9	MW-11D	Total/NA	Water	8021B	
880-11987-10	MW-125	Total/NA	Water	8021B	
880-11987-11	MW-12D	Total/NA	Water	8021B	
880-11987-12	MW-13D	Total/NA	Water	8021B	
MB 880-20952/8	Method Blank	Total/NA	Water	8021B	
LCS 880-20952/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-20952/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Prep Batch: 21149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21149/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 21209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11987-1	MW-3	Total/NA	Water	8021B	
880-11987-2	MW-4	Total/NA	Water	8021B	
880-11987-10	MW-125	Total/NA	Water	8021B	
MB 880-21149/5-A	Method Blank	Total/NA	Water	8021B	21149
MB 880-21209/39	Method Blank	Total/NA	Water	8021B	
LCS 880-21209/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-21209/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 21569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11987-1	MW-3	Total/NA	Water	Total BTEX	
880-11987-2	MW-4	Total/NA	Water	Total BTEX	
880-11987-3	MW-5	Total/NA	Water	Total BTEX	
880-11987-4	MW-6	Total/NA	Water	Total BTEX	
880-11987-5	MW-7	Total/NA	Water	Total BTEX	
880-11987-6	MW-8	Total/NA	Water	Total BTEX	
880-11987-7	MW-9	Total/NA	Water	Total BTEX	
880-11987-8	MW-11S	Total/NA	Water	Total BTEX	
880-11987-9	MW-11D	Total/NA	Water	Total BTEX	
880-11987-10	MW-125	Total/NA	Water	Total BTEX	
880-11987-11	MW-12D	Total/NA	Water	Total BTEX	
880-11987-12	MW-13D	Total/NA	Water	Total BTEX	

GC Semi VOA

Prep Batch: 21407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11987-1	MW-3	Total/NA	Water	8015NM Aq Prep	
880-11987-2	MW-4	Total/NA	Water	8015NM Aq Prep	
880-11987-3	MW-5	Total/NA	Water	8015NM Aq Prep	
880-11987-4	MW-6	Total/NA	Water	8015NM Aq Prep	

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Prep Batch: 21407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11987-5	MW-7	Total/NA	Water	8015NM Aq Prep	
880-11987-6	MW-8	Total/NA	Water	8015NM Aq Prep	
880-11987-7	MW-9	Total/NA	Water	8015NM Aq Prep	
880-11987-8	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-11987-9	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-11987-10	MW-125	Total/NA	Water	8015NM Aq Prep	
880-11987-11	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-11987-12	MW-13D	Total/NA	Water	8015NM Aq Prep	
MB 880-21407/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-21407/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-21407/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-11987-1 MS	MW-3	Total/NA	Water	8015NM Aq Prep	
880-11987-1 MSD	MW-3	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 21518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11987-1	MW-3	Total/NA	Water	8015B NM	21407
880-11987-2	MW-4	Total/NA	Water	8015B NM	21407
880-11987-3	MW-5	Total/NA	Water	8015B NM	21407
880-11987-4	MW-6	Total/NA	Water	8015B NM	21407
880-11987-5	MW-7	Total/NA	Water	8015B NM	21407
880-11987-6	MW-8	Total/NA	Water	8015B NM	21407
880-11987-7	MW-9	Total/NA	Water	8015B NM	21407
880-11987-8	MW-11S	Total/NA	Water	8015B NM	21407
880-11987-9	MW-11D	Total/NA	Water	8015B NM	21407
880-11987-10	MW-125	Total/NA	Water	8015B NM	21407
880-11987-11	MW-12D	Total/NA	Water	8015B NM	21407
880-11987-12	MW-13D	Total/NA	Water	8015B NM	21407
MB 880-21407/1-A	Method Blank	Total/NA	Water	8015B NM	21407
LCS 880-21407/2-A	Lab Control Sample	Total/NA	Water	8015B NM	21407
LCSD 880-21407/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	21407
880-11987-1 MS	MW-3	Total/NA	Water	8015B NM	21407
880-11987-1 MSD	MW-3	Total/NA	Water	8015B NM	21407

Analysis Batch: 21524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11987-1	MW-3	Total/NA	Water	8015 NM	
880-11987-2	MW-4	Total/NA	Water	8015 NM	
880-11987-3	MW-5	Total/NA	Water	8015 NM	
880-11987-4	MW-6	Total/NA	Water	8015 NM	
880-11987-5	MW-7	Total/NA	Water	8015 NM	
880-11987-6	MW-8	Total/NA	Water	8015 NM	
880-11987-7	MW-9	Total/NA	Water	8015 NM	
880-11987-8	MW-11S	Total/NA	Water	8015 NM	
880-11987-9	MW-11D	Total/NA	Water	8015 NM	
880-11987-10	MW-125	Total/NA	Water	8015 NM	
880-11987-11	MW-12D	Total/NA	Water	8015 NM	
880-11987-12	MW-13D	Total/NA	Water	8015 NM	

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-3
Date Collected: 03/01/22 14:20
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	21209	03/10/22 08:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 12:41	AJ	XEN MID

Client Sample ID: MW-4
Date Collected: 03/01/22 13:50
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	21209	03/10/22 09:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 13:46	AJ	XEN MID

Client Sample ID: MW-5
Date Collected: 03/02/22 09:00
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 19:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 14:08	AJ	XEN MID

Client Sample ID: MW-6
Date Collected: 03/02/22 08:50
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 19:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 14:29	AJ	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-7
Date Collected: 03/02/22 08:15
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 20:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 14:51	AJ	XEN MID

Client Sample ID: MW-8
Date Collected: 03/01/22 14:55
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 20:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 15:12	AJ	XEN MID

Client Sample ID: MW-9
Date Collected: 03/02/22 10:00
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 21:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 15:33	AJ	XEN MID

Client Sample ID: MW-11S
Date Collected: 03/02/22 12:00
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	20952	03/05/22 23:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 15:54	AJ	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Client Sample ID: MW-11D
Date Collected: 03/02/22 11:15
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 21:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 16:15	AJ	XEN MID

Client Sample ID: MW-125
Date Collected: 03/02/22 14:15
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 23:00	KL	XEN MID
Total/NA	Analysis	8021B		100	21209	03/10/22 09:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 16:37	AJ	XEN MID

Client Sample ID: MW-12D
Date Collected: 03/02/22 12:45
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 22:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 17:19	AJ	XEN MID

Client Sample ID: MW-13D
Date Collected: 03/02/22 10:40
Date Received: 03/03/22 08:45

Lab Sample ID: 880-11987-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	20952	03/05/22 22:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	21569	03/14/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	21524	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Aq Prep			21407	03/11/22 14:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	21518	03/13/22 17:40	AJ	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Total TPH
Total BTEX		Water	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5030B	Purge and Trap	SW846	XEN MID
8015NM Aq Prep	Microextraction	SW846	XEN MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-11987-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11987-1	MW-3	Water	03/01/22 14:20	03/03/22 08:45
880-11987-2	MW-4	Water	03/01/22 13:50	03/03/22 08:45
880-11987-3	MW-5	Water	03/02/22 09:00	03/03/22 08:45
880-11987-4	MW-6	Water	03/02/22 08:50	03/03/22 08:45
880-11987-5	MW-7	Water	03/02/22 08:15	03/03/22 08:45
880-11987-6	MW-8	Water	03/01/22 14:55	03/03/22 08:45
880-11987-7	MW-9	Water	03/02/22 10:00	03/03/22 08:45
880-11987-8	MW-11S	Water	03/02/22 12:00	03/03/22 08:45
880-11987-9	MW-11D	Water	03/02/22 11:15	03/03/22 08:45
880-11987-10	MW-125	Water	03/02/22 14:15	03/03/22 08:45
880-11987-11	MW-12D	Water	03/02/22 12:45	03/03/22 08:45
880-11987-12	MW-13D	Water	03/02/22 10:40	03/03/22 08:45

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Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad, NM (575) 988-3199

Work Order No: 11987

www.xenco.com Page 1 of 2

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name	Ensolum LLC	Company Name:	
Address.	705 W. Wall	Address.	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	Kurt Carlsbad	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location.	Carlsbad NM	Due Date	
Sampler's Name:	Shane Diller	TAT starts the day received by the lab, if received by 4:30pm	
PO #	03B1226001		

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading	2.3
Total Containers.		Corrected Temperature:	2.2

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL. HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX 8021B	Sample Comments
MW-3	GW	3-1-22	1420		G	5		X	X	VOAS
MW-4	GW	3-1-22	1350		G	5		X	X	
MW-5	GW	3-2-22	900		G	5		X	X	
MW-6	GW	3-2-22	850		G	5		X	X	
MW-7	GW	3-2-22	815		G	5		X	X	
MW-8	GW	3-1-22	1455		G	5		X	X	
MW-9	GW	3-2-22	~~1435~~ MW-9	1000	G	5		X	X	
MW-11S	GW	3-2-22	1200		G	5		X	X	
MW-11D	GW	3-2-22	1115		G	5		X	X	
MW-12S	GW	3-2-22	1415		G	5		X	X	

880-11987 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/3/22 845	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM
4/1/2022 (Rev. 1)

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Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550, Carlsbad NM (575) 988-3199

Work Order No: 11987

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Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W Wadley	Address:	
City, State ZIP:	Midland TX 79707	City, State ZIP:	
Phone:	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name:	~~Gs~~ South Carlsbad	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name:	Shane D. Lee	TAT starts the day received by the lab, if received by 4.30pm	
PO #	03B1226001		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1	
Sample Custody Seals.	Yes No (N/A)	Temperature Reading.	2.3	
Total Containers:		Corrected Temperature:	2.2	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX SW846 8021B
~~SAD MW-12D~~	~~GW~~								
MW-12D	GW	3-2-22	1245		G	5		X	X
MW-13D	GW	3-2-22	1040		G	5		X	X

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

NPK 3-2-22

CUSTODY SEAL
Date 3-3-22
Signature

Thermo SCIENTIFIC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/3/22 8:45	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-11987-1
SDG Number: Carlsbad NM

Login Number: 11987
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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.	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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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-15197-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: South Carlsbad
Revision: 1

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
6/2/2022 1:32:45 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad

Laboratory Job ID: 880-15197-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Qualifiers

GC 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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi 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.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Job ID: 880-15197-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-15197-1

REVISION

The report being provided is a revision of the original report sent on 6/2/2022. The report (revision 1) is being revised due to Per client email, corrected sample MW-11A to MW-11S and MW-125 to MW-12S.

Report revision history

Receipt
The samples were received on 5/25/2022 4:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-26646 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-3

Date Collected: 05/24/22 12:40
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			05/28/22 00:50	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/28/22 00:50	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/28/22 00:50	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/28/22 00:50	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/28/22 00:50	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/28/22 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*05/28/22 00:50*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*05/28/22 00:50*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		05/26/22 09:03	05/26/22 11:48	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		05/26/22 09:03	05/26/22 11:48	1
OII Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		05/26/22 09:03	05/26/22 11:48	1
Total TPH	<0.893	U	4.52	0.893	mg/L		05/26/22 09:03	05/26/22 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/26/22 09:03*	*05/26/22 11:48*	*1*
o-Terphenyl	*115*		*70 - 130*	*05/26/22 09:03*	*05/26/22 11:48*	*1*

Client Sample ID: MW-4

Date Collected: 05/24/22 12:10
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			05/28/22 01:10	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/28/22 01:10	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/28/22 01:10	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/28/22 01:10	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/28/22 01:10	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/28/22 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*05/28/22 01:10*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*05/28/22 01:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			05/31/22 09:13	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-4

Date Collected: 05/24/22 12:10
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-2
Matrix: Water

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		05/26/22 09:03	05/26/22 12:52	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		05/26/22 09:03	05/26/22 12:52	1
OII Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		05/26/22 09:03	05/26/22 12:52	1
Total TPH	<0.893	U	4.52	0.893	mg/L		05/26/22 09:03	05/26/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/26/22 09:03*	*05/26/22 12:52*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/26/22 09:03*	*05/26/22 12:52*	*1*

Client Sample ID: MW-5

Date Collected: 05/25/22 09:05
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			05/28/22 01:31	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/28/22 01:31	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/28/22 01:31	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/28/22 01:31	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/28/22 01:31	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/28/22 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/28/22 01:31*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*05/28/22 01:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		05/26/22 09:03	05/26/22 13:14	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		05/26/22 09:03	05/26/22 13:14	1
OII Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		05/26/22 09:03	05/26/22 13:14	1
Total TPH	<0.887	U	4.49	0.887	mg/L		05/26/22 09:03	05/26/22 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/26/22 09:03*	*05/26/22 13:14*	*1*
o-Terphenyl	*106*		*70 - 130*	*05/26/22 09:03*	*05/26/22 13:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-6

Date Collected: 05/24/22 14:30
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			05/28/22 01:51	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/28/22 01:51	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/28/22 01:51	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/28/22 01:51	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/28/22 01:51	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/28/22 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*05/28/22 01:51*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*05/28/22 01:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		05/26/22 09:03	05/26/22 13:36	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		05/26/22 09:03	05/26/22 13:36	1
OII Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		05/26/22 09:03	05/26/22 13:36	1
Total TPH	<0.887	U	4.49	0.887	mg/L		05/26/22 09:03	05/26/22 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/26/22 09:03*	*05/26/22 13:36*	*1*
o-Terphenyl	*112*		*70 - 130*	*05/26/22 09:03*	*05/26/22 13:36*	*1*

Client Sample ID: MW-7

Date Collected: 05/24/22 13:55
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-5
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			05/28/22 02:12	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/28/22 02:12	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/28/22 02:12	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/28/22 02:12	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/28/22 02:12	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/28/22 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*05/28/22 02:12*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*05/28/22 02:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			05/31/22 09:13	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-7

Date Collected: 05/24/22 13:55
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-5
Matrix: Water

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.880	U	4.45	0.880	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.880	U	4.45	0.880	mg/L		05/26/22 09:03	05/26/22 13:57	1
Diesel Range Organics (Over C10-C28)	<0.880	U	4.45	0.880	mg/L		05/26/22 09:03	05/26/22 13:57	1
OII Range Organics (Over C28-C36)	<0.849	U	4.45	0.849	mg/L		05/26/22 09:03	05/26/22 13:57	1
Total TPH	<0.880	U	4.45	0.880	mg/L		05/26/22 09:03	05/26/22 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/26/22 09:03*	*05/26/22 13:57*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/26/22 09:03*	*05/26/22 13:57*	*1*

Client Sample ID: MW-8

Date Collected: 05/24/22 13:20
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			05/28/22 02:32	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/28/22 02:32	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/28/22 02:32	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/28/22 02:32	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/28/22 02:32	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/28/22 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*05/28/22 02:32*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*05/28/22 02:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.906	U	4.59	0.906	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.906	U	4.59	0.906	mg/L		05/26/22 09:03	05/26/22 14:19	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906	mg/L		05/26/22 09:03	05/26/22 14:19	1
OII Range Organics (Over C28-C36)	<0.875	U	4.59	0.875	mg/L		05/26/22 09:03	05/26/22 14:19	1
Total TPH	<0.906	U	4.59	0.906	mg/L		05/26/22 09:03	05/26/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/26/22 09:03*	*05/26/22 14:19*	*1*
o-Terphenyl	*109*		*70 - 130*	*05/26/22 09:03*	*05/26/22 14:19*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-9

Date Collected: 05/25/22 10:40
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-7
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00405**		0.00200	0.000408	mg/L			05/28/22 02:53	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/28/22 02:53	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/28/22 02:53	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/28/22 02:53	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/28/22 02:53	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/28/22 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*05/28/22 02:53*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*05/28/22 02:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00405**		0.00400	0.000657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.906	U	4.59	0.906	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.906	U	4.59	0.906	mg/L		05/26/22 09:03	05/26/22 14:40	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906	mg/L		05/26/22 09:03	05/26/22 14:40	1
OII Range Organics (Over C28-C36)	<0.875	U	4.59	0.875	mg/L		05/26/22 09:03	05/26/22 14:40	1
Total TPH	<0.906	U	4.59	0.906	mg/L		05/26/22 09:03	05/26/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/26/22 09:03*	*05/26/22 14:40*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/26/22 09:03*	*05/26/22 14:40*	*1*

Client Sample ID: MW-10

Date Collected: 05/25/22 10:05
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-8
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000911**	**J**	0.00200	0.000408	mg/L			05/28/22 03:13	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/28/22 03:13	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/28/22 03:13	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/28/22 03:13	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/28/22 03:13	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/28/22 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*05/28/22 03:13*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*05/28/22 03:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.000911**	**J**	0.00400	0.000657	mg/L			05/31/22 09:13	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-10

Date Collected: 05/25/22 10:05
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-8
Matrix: Water

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		05/26/22 09:03	05/26/22 15:02	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		05/26/22 09:03	05/26/22 15:02	1
OII Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		05/26/22 09:03	05/26/22 15:02	1
Total TPH	<0.898	U	4.55	0.898	mg/L		05/26/22 09:03	05/26/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*05/26/22 09:03*	*05/26/22 15:02*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/26/22 09:03*	*05/26/22 15:02*	*1*

Client Sample ID: MW-11S

Date Collected: 05/25/22 12:00
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-9
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.790**		0.200	0.0408	mg/L			06/02/22 06:50	100
Toluene	**0.157**	**J**	0.200	0.0367	mg/L			06/02/22 06:50	100
Ethylbenzene	**0.319**		0.200	0.0657	mg/L			06/02/22 06:50	100
m-Xylene & p-Xylene	**0.519**		0.400	0.0629	mg/L			06/02/22 06:50	100
o-Xylene	**0.106**	**J**	0.200	0.0642	mg/L			06/02/22 06:50	100
Xylenes, Total	**0.625**		0.400	0.0642	mg/L			06/02/22 06:50	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*06/02/22 06:50*	*100*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*06/02/22 06:50*	*100*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.89**		0.400	0.0657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7.39**		4.49	0.887	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.92**	**J**	4.49	0.887	mg/L		05/26/22 09:03	05/26/22 15:24	1
Diesel Range Organics (Over C10-C28)	**4.47**	**J**	4.49	0.887	mg/L		05/26/22 09:03	05/26/22 15:24	1
OII Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		05/26/22 09:03	05/26/22 15:24	1
Total TPH	**7.39**		4.49	0.887	mg/L		05/26/22 09:03	05/26/22 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/26/22 09:03*	*05/26/22 15:24*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/26/22 09:03*	*05/26/22 15:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-11D

Date Collected: 05/25/22 11:25
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-10
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00188**	**J**	0.00200	0.000408	mg/L			06/02/22 04:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/02/22 04:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/02/22 04:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/02/22 04:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/02/22 04:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/02/22 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*06/02/22 04:25*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*06/02/22 04:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00188**	**J**	0.00400	0.000657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.909	U	4.60	0.909	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.909	U	4.60	0.909	mg/L		05/26/22 09:03	05/26/22 15:45	1
Diesel Range Organics (Over C10-C28)	<0.909	U	4.60	0.909	mg/L		05/26/22 09:03	05/26/22 15:45	1
OII Range Organics (Over C28-C36)	<0.877	U	4.60	0.877	mg/L		05/26/22 09:03	05/26/22 15:45	1
Total TPH	<0.909	U	4.60	0.909	mg/L		05/26/22 09:03	05/26/22 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/26/22 09:03*	*05/26/22 15:45*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/26/22 09:03*	*05/26/22 15:45*	*1*

Client Sample ID: MW-12S

Date Collected: 05/25/22 13:20
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-11
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.34**		0.100	0.0204	mg/L			06/02/22 06:29	50
Toluene	**0.264**		0.100	0.0184	mg/L			06/02/22 06:29	50
Ethylbenzene	**0.470**		0.100	0.0329	mg/L			06/02/22 06:29	50
m-Xylene & p-Xylene	**0.164**	**J**	0.200	0.0315	mg/L			06/02/22 06:29	50
o-Xylene	**0.0775**	**J**	0.100	0.0321	mg/L			06/02/22 06:29	50
Xylenes, Total	**0.242**		0.200	0.0321	mg/L			06/02/22 06:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*06/02/22 06:29*	*50*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*06/02/22 06:29*	*50*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**2.32**		0.200	0.0329	mg/L			05/31/22 09:13	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-12S

Date Collected: 05/25/22 13:20
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-11
Matrix: Water

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5.06**		4.59	0.906	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.74**	**J**	4.59	0.906	mg/L		05/26/22 09:03	05/26/22 16:34	1
Diesel Range Organics (Over C10-C28)	**2.32**	**J**	4.59	0.906	mg/L		05/26/22 09:03	05/26/22 16:34	1
Oil Range Organics (Over C28-C36)	<0.875	U	4.59	0.875	mg/L		05/26/22 09:03	05/26/22 16:34	1
Total TPH	**5.06**		4.59	0.906	mg/L		05/26/22 09:03	05/26/22 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*05/26/22 09:03*	*05/26/22 16:34*	*1*
o-Terphenyl	*83*		*70 - 130*	*05/26/22 09:03*	*05/26/22 16:34*	*1*

Client Sample ID: MW-12D

Date Collected: 05/25/22 12:50
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-12
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0276**		0.00200	0.000408	mg/L			06/02/22 08:13	1
Toluene	**0.000890**	**J**	0.00200	0.000367	mg/L			06/02/22 08:13	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/02/22 08:13	1
m-Xylene & p-Xylene	**0.00101**	**J**	0.00400	0.000629	mg/L			06/02/22 08:13	1
o-Xylene	**0.00115**	**J**	0.00200	0.000642	mg/L			06/02/22 08:13	1
Xylenes, Total	**0.00216**	**J**	0.00400	0.000642	mg/L			06/02/22 08:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*06/02/22 08:13*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*06/02/22 08:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0307**		0.00400	0.000657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.890	U	4.50	0.890	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.890	U	4.50	0.890	mg/L		05/26/22 09:03	05/26/22 16:56	1
Diesel Range Organics (Over C10-C28)	<0.890	U	4.50	0.890	mg/L		05/26/22 09:03	05/26/22 16:56	1
Oil Range Organics (Over C28-C36)	<0.859	U	4.50	0.859	mg/L		05/26/22 09:03	05/26/22 16:56	1
Total TPH	<0.890	U	4.50	0.890	mg/L		05/26/22 09:03	05/26/22 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*05/26/22 09:03*	*05/26/22 16:56*	*1*
o-Terphenyl	*123*		*70 - 130*	*05/26/22 09:03*	*05/26/22 16:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-13D
Date Collected: 05/25/22 09:35
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-13
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00226**		0.00200	0.000408	mg/L			06/02/22 08:33	1
Toluene	**0.000493**	**J**	0.00200	0.000367	mg/L			06/02/22 08:33	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/02/22 08:33	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/02/22 08:33	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/02/22 08:33	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/02/22 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*06/02/22 08:33*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*06/02/22 08:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00275**	**J**	0.00400	0.000657	mg/L			05/31/22 09:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.901	U	4.56	0.901	mg/L			05/26/22 17:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.901	U	4.56	0.901	mg/L		05/26/22 09:03	05/26/22 17:18	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		05/26/22 09:03	05/26/22 17:18	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		05/26/22 09:03	05/26/22 17:18	1
Total TPH	<0.901	U	4.56	0.901	mg/L		05/26/22 09:03	05/26/22 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/26/22 09:03*	*05/26/22 17:18*	*1*
o-Terphenyl	*105*		*70 - 130*	*05/26/22 09:03*	*05/26/22 17:18*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-15047-A-10 MS	Matrix Spike	103	105
880-15047-A-10 MSD	Matrix Spike Duplicate	103	99
880-15197-1	MW-3	107	102
880-15197-2	MW-4	103	100
880-15197-3	MW-5	109	100
880-15197-4	MW-6	108	104
880-15197-5	MW-7	101	98
880-15197-6	MW-8	104	103
880-15197-7	MW-9	106	103
880-15197-8	MW-10	105	104
880-15197-9	MW-11S	107	97
880-15197-10	MW-11D	108	93
880-15197-10 MS	MW-11D	112	91
880-15197-10 MSD	MW-11D	100	96
880-15197-11	MW-12S	108	95
880-15197-12	MW-12D	101	96
880-15197-13	MW-13D	106	95
LCS 880-26468/3	Lab Control Sample	103	100
LCS 880-26646/108	Lab Control Sample	116	91
LCSD 880-26468/4	Lab Control Sample Dup	100	98
LCSD 880-26646/109	Lab Control Sample Dup	112	98
MB 880-26468/8	Method Blank	97	99
MB 880-26646/113	Method Blank	109	94
MB 880-26646/82	Method Blank	97	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-15197-1	MW-3	101	115
880-15197-1 MS	MW-3	88	85
880-15197-1 MSD	MW-3	88	85
880-15197-2	MW-4	89	96
880-15197-3	MW-5	99	106
880-15197-4	MW-6	105	112
880-15197-5	MW-7	100	108
880-15197-6	MW-8	101	109
880-15197-7	MW-9	105	113
880-15197-8	MW-10	95	102
880-15197-9	MW-11S	92	95
880-15197-10	MW-11D	89	97
880-15197-11	MW-12S	77	83
880-15197-12	MW-12D	113	123
880-15197-13	MW-13D	96	105

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCS 880-26369/2-A	Lab Control Sample	104	102								
LCSD 880-26369/3-A	Lab Control Sample Dup	108	105								
MB 880-26369/1-A	Method Blank	109	115								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26468/8
Matrix: Water
Analysis Batch: 26468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			05/27/22 18:45	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			05/27/22 18:45	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			05/27/22 18:45	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			05/27/22 18:45	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			05/27/22 18:45	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			05/27/22 18:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*05/27/22 18:45*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*05/27/22 18:45*	*1*

Lab Sample ID: LCS 880-26468/3
Matrix: Water
Analysis Batch: 26468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09706		mg/L		97	70 - 130		
Toluene			0.100	0.1048		mg/L		105	70 - 130		
Ethylbenzene			0.100	0.09811		mg/L		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.2271		mg/L		114	70 - 130		
o-Xylene			0.100	0.1101		mg/L		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-26468/4
Matrix: Water
Analysis Batch: 26468

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
Benzene			0.100	0.09215		mg/L		92	70 - 130	5	20
Toluene			0.100	0.1003		mg/L		100	70 - 130	4	20
Ethylbenzene			0.100	0.09443		mg/L		94	70 - 130	4	20
m-Xylene & p-Xylene			0.200	0.2188		mg/L		109	70 - 130	4	20
o-Xylene			0.100	0.1059		mg/L		106	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-26646/113
Matrix: Water
Analysis Batch: 26646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/02/22 03:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/02/22 03:23	1

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-26646/113
Matrix: Water
Analysis Batch: 26646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/02/22 03:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/02/22 03:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/02/22 03:23	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/02/22 03:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*06/02/22 03:23*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*		*06/02/22 03:23*	*1*

Lab Sample ID: MB 880-26646/82
Matrix: Water
Analysis Batch: 26646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/01/22 16:41	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/01/22 16:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/01/22 16:41	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/01/22 16:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/01/22 16:41	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/01/22 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*06/01/22 16:41*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*06/01/22 16:41*	*1*

Lab Sample ID: LCS 880-26646/108
Matrix: Water
Analysis Batch: 26646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08700		mg/L		87	70 - 130		
Toluene			0.100	0.09403		mg/L		94	70 - 130		
Ethylbenzene			0.100	0.1089		mg/L		109	70 - 130		
m-Xylene & p-Xylene			0.200	0.2238		mg/L		112	70 - 130		
o-Xylene			0.100	0.1040		mg/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-26646/109
Matrix: Water
Analysis Batch: 26646

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
Benzene			0.100	0.1043		mg/L		104	70 - 130	18	20
Toluene			0.100	0.1018		mg/L		102	70 - 130	8	20
Ethylbenzene			0.100	0.1117		mg/L		112	70 - 130	3	20

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-26646/109
Matrix: Water
Analysis Batch: 26646

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
m-Xylene & p-Xylene			0.200	0.2232		mg/L		112	70 - 130	0	20
o-Xylene			0.100	0.1037		mg/L		104	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-15197-10 MS
Matrix: Water
Analysis Batch: 26646

Client Sample ID: MW-11D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00188	J	0.100	0.08661		mg/L		85	70 - 130
Toluene	<0.000367	U	0.100	0.09196		mg/L		92	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.1056		mg/L		106	70 - 130
m-Xylene & p-Xylene	<0.000629	U	0.200	0.2139		mg/L		107	70 - 130
o-Xylene	<0.000642	U	0.100	0.09945		mg/L		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-15197-10 MSD
Matrix: Water
Analysis Batch: 26646

Client Sample ID: MW-11D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00188	J	0.100	0.09192		mg/L		90	70 - 130	6	25
Toluene	<0.000367	U	0.100	0.08853		mg/L		89	70 - 130	4	25
Ethylbenzene	<0.000657	U	0.100	0.09554		mg/L		96	70 - 130	10	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1874		mg/L		94	70 - 130	13	25
o-Xylene	<0.000642	U	0.100	0.08709		mg/L		87	70 - 130	13	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-26369/1-A
Matrix: Water
Analysis Batch: 26295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26369

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		05/26/22 09:03	05/26/22 10:44	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		05/26/22 09:03	05/26/22 10:44	1
Oil Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		05/26/22 09:03	05/26/22 10:44	1

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-26369/1-A
Matrix: Water
Analysis Batch: 26295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26369

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.904	U	4.57	0.904	mg/L		05/26/22 09:03	05/26/22 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*05/26/22 09:03*	*05/26/22 10:44*	*1*
o-Terphenyl	*115*		*70 - 130*	*05/26/22 09:03*	*05/26/22 10:44*	*1*

Lab Sample ID: LCS 880-26369/2-A
Matrix: Water
Analysis Batch: 26295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26369

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			91.7	79.04		mg/L		86	75 - 125		
Diesel Range Organics (Over C10-C28)			91.7	72.59		mg/L		79	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: LCSD 880-26369/3-A
Matrix: Water
Analysis Batch: 26295

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26369

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			92.0	82.66		mg/L		90	75 - 125	4	20
Diesel Range Organics (Over C10-C28)			92.0	76.31		mg/L		83	75 - 125	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 880-15197-1 MS
Matrix: Water
Analysis Batch: 26295

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 26369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	89.6	91.62		mg/L		102	75 - 125		
Diesel Range Organics (Over C10-C28)	<0.893	U	89.6	83.08		mg/L		93	75 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-15197-1 MSD
Matrix: Water
Analysis Batch: 26295

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 26369

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	89.6	93.27		mg/L		104	75 - 125	2	20
Diesel Range Organics (Over C10-C28)	<0.893	U	89.6	83.29		mg/L		93	75 - 125	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

GC VOA

Analysis Batch: 26468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15197-1	MW-3	Total/NA	Water	8021B	
880-15197-2	MW-4	Total/NA	Water	8021B	
880-15197-3	MW-5	Total/NA	Water	8021B	
880-15197-4	MW-6	Total/NA	Water	8021B	
880-15197-5	MW-7	Total/NA	Water	8021B	
880-15197-6	MW-8	Total/NA	Water	8021B	
880-15197-7	MW-9	Total/NA	Water	8021B	
880-15197-8	MW-10	Total/NA	Water	8021B	
MB 880-26468/8	Method Blank	Total/NA	Water	8021B	
LCS 880-26468/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-26468/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 26548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15197-1	MW-3	Total/NA	Water	Total BTEX	
880-15197-2	MW-4	Total/NA	Water	Total BTEX	
880-15197-3	MW-5	Total/NA	Water	Total BTEX	
880-15197-4	MW-6	Total/NA	Water	Total BTEX	
880-15197-5	MW-7	Total/NA	Water	Total BTEX	
880-15197-6	MW-8	Total/NA	Water	Total BTEX	
880-15197-7	MW-9	Total/NA	Water	Total BTEX	
880-15197-8	MW-10	Total/NA	Water	Total BTEX	
880-15197-9	MW-11S	Total/NA	Water	Total BTEX	
880-15197-10	MW-11D	Total/NA	Water	Total BTEX	
880-15197-11	MW-12S	Total/NA	Water	Total BTEX	
880-15197-12	MW-12D	Total/NA	Water	Total BTEX	
880-15197-13	MW-13D	Total/NA	Water	Total BTEX	

Analysis Batch: 26646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15197-9	MW-11S	Total/NA	Water	8021B	
880-15197-10	MW-11D	Total/NA	Water	8021B	
880-15197-11	MW-12S	Total/NA	Water	8021B	
880-15197-12	MW-12D	Total/NA	Water	8021B	
880-15197-13	MW-13D	Total/NA	Water	8021B	
MB 880-26646/113	Method Blank	Total/NA	Water	8021B	
MB 880-26646/82	Method Blank	Total/NA	Water	8021B	
LCS 880-26646/108	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-26646/109	Lab Control Sample Dup	Total/NA	Water	8021B	
880-15197-10 MS	MW-11D	Total/NA	Water	8021B	
880-15197-10 MSD	MW-11D	Total/NA	Water	8021B	

GC Semi VOA

Analysis Batch: 26295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15197-1	MW-3	Total/NA	Water	8015B NM	26369
880-15197-2	MW-4	Total/NA	Water	8015B NM	26369
880-15197-3	MW-5	Total/NA	Water	8015B NM	26369
880-15197-4	MW-6	Total/NA	Water	8015B NM	26369
880-15197-5	MW-7	Total/NA	Water	8015B NM	26369

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 26295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15197-6	MW-8	Total/NA	Water	8015B NM	26369
880-15197-7	MW-9	Total/NA	Water	8015B NM	26369
880-15197-8	MW-10	Total/NA	Water	8015B NM	26369
880-15197-9	MW-11S	Total/NA	Water	8015B NM	26369
880-15197-10	MW-11D	Total/NA	Water	8015B NM	26369
880-15197-11	MW-12S	Total/NA	Water	8015B NM	26369
880-15197-12	MW-12D	Total/NA	Water	8015B NM	26369
880-15197-13	MW-13D	Total/NA	Water	8015B NM	26369
MB 880-26369/1-A	Method Blank	Total/NA	Water	8015B NM	26369
LCS 880-26369/2-A	Lab Control Sample	Total/NA	Water	8015B NM	26369
LCSD 880-26369/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	26369
880-15197-1 MS	MW-3	Total/NA	Water	8015B NM	26369
880-15197-1 MSD	MW-3	Total/NA	Water	8015B NM	26369

Prep Batch: 26369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15197-1	MW-3	Total/NA	Water	8015NM Aq Prep	
880-15197-2	MW-4	Total/NA	Water	8015NM Aq Prep	
880-15197-3	MW-5	Total/NA	Water	8015NM Aq Prep	
880-15197-4	MW-6	Total/NA	Water	8015NM Aq Prep	
880-15197-5	MW-7	Total/NA	Water	8015NM Aq Prep	
880-15197-6	MW-8	Total/NA	Water	8015NM Aq Prep	
880-15197-7	MW-9	Total/NA	Water	8015NM Aq Prep	
880-15197-8	MW-10	Total/NA	Water	8015NM Aq Prep	
880-15197-9	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-15197-10	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-15197-11	MW-12S	Total/NA	Water	8015NM Aq Prep	
880-15197-12	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-15197-13	MW-13D	Total/NA	Water	8015NM Aq Prep	
MB 880-26369/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-26369/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-26369/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-15197-1 MS	MW-3	Total/NA	Water	8015NM Aq Prep	
880-15197-1 MSD	MW-3	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 26386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15197-1	MW-3	Total/NA	Water	8015 NM	
880-15197-2	MW-4	Total/NA	Water	8015 NM	
880-15197-3	MW-5	Total/NA	Water	8015 NM	
880-15197-4	MW-6	Total/NA	Water	8015 NM	
880-15197-5	MW-7	Total/NA	Water	8015 NM	
880-15197-6	MW-8	Total/NA	Water	8015 NM	
880-15197-7	MW-9	Total/NA	Water	8015 NM	
880-15197-8	MW-10	Total/NA	Water	8015 NM	
880-15197-9	MW-11S	Total/NA	Water	8015 NM	
880-15197-10	MW-11D	Total/NA	Water	8015 NM	
880-15197-11	MW-12S	Total/NA	Water	8015 NM	
880-15197-12	MW-12D	Total/NA	Water	8015 NM	
880-15197-13	MW-13D	Total/NA	Water	8015 NM	

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-3
Date Collected: 05/24/22 12:40
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26468	05/28/22 00:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 11:48	SM	XEN MID

Client Sample ID: MW-4
Date Collected: 05/24/22 12:10
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26468	05/28/22 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 12:52	SM	XEN MID

Client Sample ID: MW-5
Date Collected: 05/25/22 09:05
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26468	05/28/22 01:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 13:14	SM	XEN MID

Client Sample ID: MW-6
Date Collected: 05/24/22 14:30
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26468	05/28/22 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 13:36	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-7
Date Collected: 05/24/22 13:55
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26468	05/28/22 02:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 13:57	SM	XEN MID

Client Sample ID: MW-8
Date Collected: 05/24/22 13:20
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26468	05/28/22 02:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 14:19	SM	XEN MID

Client Sample ID: MW-9
Date Collected: 05/25/22 10:40
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26468	05/28/22 02:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 14:40	SM	XEN MID

Client Sample ID: MW-10
Date Collected: 05/25/22 10:05
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26468	05/28/22 03:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 15:02	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-11S
Date Collected: 05/25/22 12:00
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		100	26646	06/02/22 06:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 15:24	SM	XEN MID

Client Sample ID: MW-11D
Date Collected: 05/25/22 11:25
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26646	06/02/22 04:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 15:45	SM	XEN MID

Client Sample ID: MW-12S
Date Collected: 05/25/22 13:20
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		50	26646	06/02/22 06:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 16:34	SM	XEN MID

Client Sample ID: MW-12D
Date Collected: 05/25/22 12:50
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26646	06/02/22 08:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 16:56	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Client Sample ID: MW-13D
Date Collected: 05/25/22 09:35
Date Received: 05/25/22 16:55

Lab Sample ID: 880-15197-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	26646	06/02/22 08:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	26548	05/31/22 09:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1	26386	05/26/22 17:10	SM	XEN MID
Total/NA	Prep	8015NM Aq Prep			26369	05/26/22 09:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1	26295	05/26/22 17:18	SM	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Total TPH
Total BTEX		Water	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5030B	Purge and Trap	SW846	XEN MID
8015NM Aq Prep	Microextraction	SW846	XEN MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-15197-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-15197-1	MW-3	Water	05/24/22 12:40	05/25/22 16:55
880-15197-2	MW-4	Water	05/24/22 12:10	05/25/22 16:55
880-15197-3	MW-5	Water	05/25/22 09:05	05/25/22 16:55
880-15197-4	MW-6	Water	05/24/22 14:30	05/25/22 16:55
880-15197-5	MW-7	Water	05/24/22 13:55	05/25/22 16:55
880-15197-6	MW-8	Water	05/24/22 13:20	05/25/22 16:55
880-15197-7	MW-9	Water	05/25/22 10:40	05/25/22 16:55
880-15197-8	MW-10	Water	05/25/22 10:05	05/25/22 16:55
880-15197-9	MW-11S	Water	05/25/22 12:00	05/25/22 16:55
880-15197-10	MW-11D	Water	05/25/22 11:25	05/25/22 16:55
880-15197-11	MW-12S	Water	05/25/22 13:20	05/25/22 16:55
880-15197-12	MW-12D	Water	05/25/22 12:50	05/25/22 16:55
880-15197-13	MW-13D	Water	05/25/22 09:35	05/25/22 16:55

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Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Work Order No: 15197

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Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N. Marienfield 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date:	
Sampler's Name:	Shane Dillon	TAT starts the day received by the lab, if received by 4:30pm	
PO #	03B1226001		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.2
Sample Custody Seals:	Yes No N/A	Temperature Reading	5.9
Total Containers:		Corrected Temperature:	5.7

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL. HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4. HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX SW846 8021B
MW-3	GW	5-24-22	1240	-	G	5		x	x
MW-4	GW	5-24-22	1210	-	G	5		x	x
MW-5	GW	5-25-22	905	-	G	5		x	x
MW-6	GW	5-24-22	1430	-	G	5		x	x
MW-7	GW	5-24-22	1355	-	G	5		x	x
MW-8	GW	5-24-22	1320	-	G	5		x	x
MW-9	GW	5-25-22	1040	-	G	5		x	x
MW-10	GW	5-25-22	1005	-	G	5		x	x
MW-11S	GW	5-25-22	1200	-	G	5		x	x
MW-11D	GW	5-25-22	1125	-	G	5		x	x

Sample Comments

880-15197 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			5/25/22 16:55	2			
3				4			
5				6			

Revised Date: 08/25/2020 Rev 2020.2

Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Work Order No: 15197

www.xenco.com Page 2 of 2

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marienfeld 400	Address:	
City, State ZIP:	MIDLAND TX 79701	City, State ZIP:	
Phone:	432-230 3344	Email:	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad	Turn Around	
Project Number:	03B1227001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name:	SHANE DILLER	TAT starts the day received by the lab, if received by 4:30pm	
PO #	03B1226001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.2
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	5.4
Total Containers.		Corrected Temperature:	5.7

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX SW 846 8021B
MW-12S	GW	5-25-22	1320	—	G	5		X	X
MW-12D	GW	5-25-22	1250	—	G	5		X	X
MW-13D	GW	5-25-22	435	—	G	5		X	X

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Loc: 880
15197

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5/25/22 16:55	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15197-1
SDG Number: Carlsbad NM

Login Number: 15197
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
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	
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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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-18459-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: South Carlsbad

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Beaux Jennings

JKramer

Authorized for release by:
9/5/2022 1:18:04 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: South Carlsbad

Laboratory Job ID: 880-18459-1
SDG: Carlsbad NM

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Eurofins Midland
9/5/2022

Definitions/Glossary

Client: Ensolum Job ID: 880-18459-1
Project/Site: South Carlsbad SDG: Carlsbad NM

Qualifiers

GC 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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Job ID: 880-18459-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-18459-1

Receipt
The samples were received on 8/23/2022 4:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-33594 recovered outside control limits for the following analytes: Ethylbenzene, m-Xylene & p-Xylene and o-Xylene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The method blank for preparation batch 880-33087 and analytical batch 880-33127 contained Gasoline Range Organics (GRO)-C6-C10 and OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33087 and analytical batch 880-33127 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-3

Lab Sample ID: 880-18459-1
Date Collected: 08/22/22 13:15
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/02/22 02:11	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 02:11	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 02:11	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 02:11	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 02:11	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*09/02/22 02:11*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*09/02/22 02:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/02/22 11:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.904	U	4.57	0.904	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		08/26/22 17:13	08/28/22 11:54	1
Diesel Range Organics (Over C10-C28)	<0.904	U F1	4.57	0.904	mg/L		08/26/22 17:13	08/28/22 11:54	1
Oil Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		08/26/22 17:13	08/28/22 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/26/22 17:13*	*08/28/22 11:54*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/26/22 17:13*	*08/28/22 11:54*	*1*

Client Sample ID: MW-4

Lab Sample ID: 880-18459-2
Date Collected: 08/22/22 12:40
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/02/22 02:36	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 02:36	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 02:36	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 02:36	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 02:36	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*		*09/02/22 02:36*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*		*09/02/22 02:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/02/22 11:09	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-4

Lab Sample ID: 880-18459-2
Date Collected: 08/22/22 12:40
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.906	U	4.59	0.906	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.906	U	4.59	0.906	mg/L		08/26/22 17:13	08/28/22 12:58	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906	mg/L		08/26/22 17:13	08/28/22 12:58	1
Oil Range Organics (Over C28-C36)	<0.875	U	4.59	0.875	mg/L		08/26/22 17:13	08/28/22 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*08/26/22 17:13*	*08/28/22 12:58*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/26/22 17:13*	*08/28/22 12:58*	*1*

Client Sample ID: MW-5

Lab Sample ID: 880-18459-3
Date Collected: 08/23/22 09:40
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/02/22 03:01	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 03:01	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 03:01	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 03:01	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 03:01	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*09/02/22 03:01*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*09/02/22 03:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/02/22 11:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.909	U	4.60	0.909	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.909	U	4.60	0.909	mg/L		08/26/22 17:13	08/28/22 13:19	1
Diesel Range Organics (Over C10-C28)	<0.909	U	4.60	0.909	mg/L		08/26/22 17:13	08/28/22 13:19	1
Oil Range Organics (Over C28-C36)	<0.877	U	4.60	0.877	mg/L		08/26/22 17:13	08/28/22 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*08/26/22 17:13*	*08/28/22 13:19*	*1*
o-Terphenyl	*81*		*70 - 130*	*08/26/22 17:13*	*08/28/22 13:19*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-6

Lab Sample ID: 880-18459-4
Date Collected: 08/23/22 09:10
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/02/22 03:26	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 03:26	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 03:26	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 03:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 03:26	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*09/02/22 03:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*09/02/22 03:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/02/22 11:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		08/26/22 17:13	08/28/22 13:40	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		08/26/22 17:13	08/28/22 13:40	1
OII Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		08/26/22 17:13	08/28/22 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/26/22 17:13*	*08/28/22 13:40*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/26/22 17:13*	*08/28/22 13:40*	*1*

Client Sample ID: MW-7

Lab Sample ID: 880-18459-5
Date Collected: 08/22/22 14:25
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/02/22 03:52	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 03:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 03:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 03:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 03:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*09/02/22 03:52*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*09/02/22 03:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/02/22 11:09	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-7

Lab Sample ID: 880-18459-5
Date Collected: 08/22/22 14:25
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		08/26/22 17:13	08/28/22 14:01	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		08/26/22 17:13	08/28/22 14:01	1
Oil Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		08/26/22 17:13	08/28/22 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/26/22 17:13*	*08/28/22 14:01*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/26/22 17:13*	*08/28/22 14:01*	*1*

Client Sample ID: MW-8

Lab Sample ID: 880-18459-6
Date Collected: 08/22/22 13:50
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/02/22 04:17	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 04:17	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 04:17	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 04:17	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 04:17	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*09/02/22 04:17*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*09/02/22 04:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/02/22 11:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.885	U	4.48	0.885	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.885	U	4.48	0.885	mg/L		08/26/22 17:13	08/28/22 14:22	1
Diesel Range Organics (Over C10-C28)	<0.885	U	4.48	0.885	mg/L		08/26/22 17:13	08/28/22 14:22	1
Oil Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		08/26/22 17:13	08/28/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*08/26/22 17:13*	*08/28/22 14:22*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/26/22 17:13*	*08/28/22 14:22*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-9

Lab Sample ID: 880-18459-7
Date Collected: 08/23/22 10:15
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0723**		0.00200	0.000408	mg/L			09/02/22 06:24	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 06:24	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 06:24	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 06:24	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 06:24	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/02/22 06:24*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*		*09/02/22 06:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0723**		0.00400	0.000657	mg/L			09/02/22 11:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		08/26/22 17:13	08/28/22 14:44	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		08/26/22 17:13	08/28/22 14:44	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		08/26/22 17:13	08/28/22 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/26/22 17:13*	*08/28/22 14:44*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/26/22 17:13*	*08/28/22 14:44*	*1*

Client Sample ID: MW-11S

Lab Sample ID: 880-18459-8
Date Collected: 08/23/22 11:40
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.864**		0.0200	0.00408	mg/L			09/02/22 10:17	10
Toluene	<0.00367	U *1	0.0200	0.00367	mg/L			09/02/22 10:17	10
Ethylbenzene	**0.253**		0.0200	0.00657	mg/L			09/02/22 10:17	10
m-Xylene & p-Xylene	**0.455**		0.0400	0.00629	mg/L			09/02/22 10:17	10
o-Xylene	<0.00642	U	0.0200	0.00642	mg/L			09/02/22 10:17	10
Xylenes, Total	**0.455**		0.0400	0.00642	mg/L			09/02/22 10:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*09/02/22 10:17*	*10*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*09/02/22 10:17*	*10*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.57**		0.0400	0.00657	mg/L			09/02/22 11:09	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-11S

Lab Sample ID: 880-18459-8
Date Collected: 08/23/22 11:40
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**11.9**		4.55	0.898	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**6.66**	**B**	4.55	0.898	mg/L		08/26/22 17:13	08/28/22 15:05	1
Diesel Range Organics (Over C10-C28)	**5.28**		4.55	0.898	mg/L		08/26/22 17:13	08/28/22 15:05	1
Oll Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		08/26/22 17:13	08/28/22 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/26/22 17:13*	*08/28/22 15:05*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/26/22 17:13*	*08/28/22 15:05*	*1*

Client Sample ID: MW-11D

Lab Sample ID: 880-18459-9
Date Collected: 08/23/22 11:10
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000427**	**J**	0.00200	0.000408	mg/L			09/02/22 06:49	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 06:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 06:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 06:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 06:49	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*09/02/22 06:49*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*		*09/02/22 06:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/02/22 11:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		08/26/22 17:13	08/28/22 15:26	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		08/26/22 17:13	08/28/22 15:26	1
Oll Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		08/26/22 17:13	08/28/22 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/26/22 17:13*	*08/28/22 15:26*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/26/22 17:13*	*08/28/22 15:26*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-12S

Lab Sample ID: 880-18459-10
Date Collected: 08/23/22 12:50
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.09**		0.0200	0.00408	mg/L			09/02/22 18:06	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			09/02/22 18:06	10
Ethylbenzene	**0.273**	***1**	0.0200	0.00657	mg/L			09/02/22 18:06	10
m-Xylene & p-Xylene	**0.111**	***1**	0.0400	0.00629	mg/L			09/02/22 18:06	10
o-Xylene	<0.00642	U *1	0.0200	0.00642	mg/L			09/02/22 18:06	10
Xylenes, Total	**0.111**	***1**	0.0400	0.00642	mg/L			09/02/22 18:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*		*09/02/22 18:06*	*10*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*09/02/22 18:06*	*10*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.47**		0.0400	0.00657	mg/L			09/02/22 11:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**9.98**		4.50	0.890	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**5.56**	**B**	4.50	0.890	mg/L		08/26/22 17:13	08/28/22 15:47	1
Diesel Range Organics (Over C10-C28)	**4.42**	**J**	4.50	0.890	mg/L		08/26/22 17:13	08/28/22 15:47	1
Oil Range Organics (Over C28-C36)	<0.859	U	4.50	0.859	mg/L		08/26/22 17:13	08/28/22 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/26/22 17:13*	*08/28/22 15:47*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/26/22 17:13*	*08/28/22 15:47*	*1*

Client Sample ID: MW-12D

Lab Sample ID: 880-18459-11
Date Collected: 08/23/22 12:15
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00694**		0.00200	0.000408	mg/L			09/02/22 07:42	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 07:42	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 07:42	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 07:42	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 07:42	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*09/02/22 07:42*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*09/02/22 07:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00694**		0.00400	0.000657	mg/L			09/02/22 11:09	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-12D

Lab Sample ID: 880-18459-11
Date Collected: 08/23/22 12:15
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		08/26/22 17:13	08/28/22 16:08	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		08/26/22 17:13	08/28/22 16:08	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		08/26/22 17:13	08/28/22 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/26/22 17:13*	*08/28/22 16:08*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/26/22 17:13*	*08/28/22 16:08*	*1*

Client Sample ID: MW-13D

Lab Sample ID: 880-18459-12
Date Collected: 08/23/22 13:25
Matrix: Water
Date Received: 08/23/22 16:49

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/02/22 08:08	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			09/02/22 08:08	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 08:08	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 08:08	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 08:08	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*09/02/22 08:08*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*09/02/22 08:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/02/22 11:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			08/29/22 10:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		08/26/22 17:13	08/28/22 16:29	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		08/26/22 17:13	08/28/22 16:29	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		08/26/22 17:13	08/28/22 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*08/26/22 17:13*	*08/28/22 16:29*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/26/22 17:13*	*08/28/22 16:29*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
820-5501-A-1 MS	Matrix Spike	118	92
820-5501-A-1 MSD	Matrix Spike Duplicate	125	95
880-18377-A-14 MS	Matrix Spike	116	105
880-18377-A-14 MSD	Matrix Spike Duplicate	118	107
880-18459-1	MW-3	109	101
880-18459-2	MW-4	127	107
880-18459-3	MW-5	119	105
880-18459-4	MW-6	117	105
880-18459-5	MW-7	123	106
880-18459-6	MW-8	111	103
880-18459-7	MW-9	110	85
880-18459-8	MW-11S	115	93
880-18459-9	MW-11D	113	113
880-18459-10	MW-12S	133 S1+	90
880-18459-11	MW-12D	105	96
880-18459-12	MW-13D	109	91
LCS 880-33496/34	Lab Control Sample	114	95
LCS 880-33594/3	Lab Control Sample	119	92
LCSD 880-33496/35	Lab Control Sample Dup	119	103
LCSD 880-33594/4	Lab Control Sample Dup	120	100
MB 880-33416/5-A	Method Blank	77	80
MB 880-33467/5-A	Method Blank	30730 S1+	26105 S1+
MB 880-33496/39	Method Blank	79	78

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-18459-1	MW-3	98	104
880-18459-1 MS	MW-3	79	75
880-18459-1 MSD	MW-3	76	72
880-18459-2	MW-4	86	87
880-18459-3	MW-5	81	81
880-18459-4	MW-6	94	97
880-18459-5	MW-7	84	84
880-18459-6	MW-8	85	87
880-18459-7	MW-9	89	94
880-18459-8	MW-11S	99	101
880-18459-9	MW-11D	97	99
880-18459-10	MW-12S	93	95
880-18459-11	MW-12D	95	96
880-18459-12	MW-13D	87	86
LCS 880-33087/2-A	Lab Control Sample	113	125
LCSD 880-33087/3-A	Lab Control Sample Dup	114	126

Surrogate Summary

Client: Ensolum Job ID: 880-18459-1
Project/Site: South Carlsbad SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
MB 880-33087/1-A	Method Blank	72	79								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33416/5-A
Matrix: Water
Analysis Batch: 33496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33416

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		08/31/22 09:38	09/01/22 11:24	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		08/31/22 09:38	09/01/22 11:24	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		08/31/22 09:38	09/01/22 11:24	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		08/31/22 09:38	09/01/22 11:24	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		08/31/22 09:38	09/01/22 11:24	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		08/31/22 09:38	09/01/22 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*08/31/22 09:38*	*09/01/22 11:24*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*08/31/22 09:38*	*09/01/22 11:24*	*1*

Lab Sample ID: MB 880-33467/5-A
Matrix: Water
Analysis Batch: 33594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33467

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		08/31/22 14:47	09/03/22 03:02	1
Toluene	0.0005040	J	0.00200	0.000367	mg/L		08/31/22 14:47	09/03/22 03:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		08/31/22 14:47	09/03/22 03:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		08/31/22 14:47	09/03/22 03:02	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		08/31/22 14:47	09/03/22 03:02	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		08/31/22 14:47	09/03/22 03:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*30730*	*S1+*	*70 - 130*	*08/31/22 14:47*	*09/03/22 03:02*	*1*
1,4-Difluorobenzene (Surr)	*26105*	*S1+*	*70 - 130*	*08/31/22 14:47*	*09/03/22 03:02*	*1*

Lab Sample ID: MB 880-33496/39
Matrix: Water
Analysis Batch: 33496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/02/22 00:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/02/22 00:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/02/22 00:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/02/22 00:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/02/22 00:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/02/22 00:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*09/02/22 00:30*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*		*09/02/22 00:30*	*1*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-33496/34
Matrix: Water
Analysis Batch: 33496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09235		mg/L		92	70 - 130		
Toluene			0.100	0.08715		mg/L		87	70 - 130		
Ethylbenzene			0.100	0.09242		mg/L		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1884		mg/L		94	70 - 130		
o-Xylene			0.100	0.1100		mg/L		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-33496/35
Matrix: Water
Analysis Batch: 33496

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
Benzene			0.100	0.1079		mg/L		108	70 - 130	16	20
Toluene			0.100	0.1076	*1	mg/L		108	70 - 130	21	20
Ethylbenzene			0.100	0.1051		mg/L		105	70 - 130	13	20
m-Xylene & p-Xylene			0.200	0.2119		mg/L		106	70 - 130	12	20
o-Xylene			0.100	0.1214		mg/L		121	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCS 880-33594/3
Matrix: Water
Analysis Batch: 33594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09695		mg/L		97	70 - 130		
Toluene			0.100	0.09909		mg/L		99	70 - 130		
Ethylbenzene			0.100	0.09109		mg/L		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1782		mg/L		89	70 - 130		
o-Xylene			0.100	0.1045		mg/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-33594/4
Matrix: Water
Analysis Batch: 33594

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
Benzene			0.100	0.1122		mg/L		112	70 - 130	15	20
Toluene			0.100	0.1170		mg/L		117	70 - 130	17	20
Ethylbenzene			0.100	0.1132	*1	mg/L		113	70 - 130	22	20

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-33594/4
Matrix: Water
Analysis Batch: 33594

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
m-Xylene & p-Xylene			0.200	0.2292	*1	mg/L		115	70 - 130	25	20
o-Xylene			0.100	0.1285	*1	mg/L		128	70 - 130	21	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-33087/1-A
Matrix: Water
Analysis Batch: 33127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33087

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.169	J	4.59	0.906	mg/L		08/26/22 17:13	08/28/22 10:49	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906	mg/L		08/26/22 17:13	08/28/22 10:49	1
OII Range Organics (Over C28-C36)	1.560	J	4.59	0.875	mg/L		08/26/22 17:13	08/28/22 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*08/26/22 17:13*	*08/28/22 10:49*	*1*
o-Terphenyl	*79*		*70 - 130*	*08/26/22 17:13*	*08/28/22 10:49*	*1*

Lab Sample ID: LCS 880-33087/2-A
Matrix: Water
Analysis Batch: 33127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33087

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			92.0	100.8		mg/L		110	75 - 125		
Diesel Range Organics (Over C10-C28)			92.0	96.19		mg/L		105	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: LCSD 880-33087/3-A
Matrix: Water
Analysis Batch: 33127

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33087

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			92.9	102.7		mg/L		111	75 - 125	2	20
Diesel Range Organics (Over C10-C28)			92.9	100.2		mg/L		108	75 - 125	4	20

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-33087/3-A
Matrix: Water
Analysis Batch: 33127

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33087

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 880-18459-1 MS
Matrix: Water
Analysis Batch: 33127

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 33087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	91.7	75.49		mg/L		82	75 - 125
Diesel Range Organics (Over C10-C28)	<0.904	U F1	91.7	61.55	F1	mg/L		67	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-18459-1 MSD
Matrix: Water
Analysis Batch: 33127

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 33087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	91.5	88.53		mg/L		97	75 - 125	16	20
Diesel Range Organics (Over C10-C28)	<0.904	U F1	91.5	57.83	F1	mg/L		63	75 - 125	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	72		70 - 130

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

GC VOA

Prep Batch: 33416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33416/5-A	Method Blank	Total/NA	Water	5035	

Prep Batch: 33467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33467/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 33496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18459-1	MW-3	Total/NA	Water	8021B	
880-18459-2	MW-4	Total/NA	Water	8021B	
880-18459-3	MW-5	Total/NA	Water	8021B	
880-18459-4	MW-6	Total/NA	Water	8021B	
880-18459-5	MW-7	Total/NA	Water	8021B	
880-18459-6	MW-8	Total/NA	Water	8021B	
880-18459-7	MW-9	Total/NA	Water	8021B	
880-18459-8	MW-11S	Total/NA	Water	8021B	
880-18459-9	MW-11D	Total/NA	Water	8021B	
880-18459-11	MW-12D	Total/NA	Water	8021B	
880-18459-12	MW-13D	Total/NA	Water	8021B	
MB 880-33416/5-A	Method Blank	Total/NA	Water	8021B	33416
MB 880-33496/39	Method Blank	Total/NA	Water	8021B	
LCS 880-33496/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-33496/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 33594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18459-10	MW-12S	Total/NA	Water	8021B	
MB 880-33467/5-A	Method Blank	Total/NA	Water	8021B	33467
LCS 880-33594/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-33594/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 33634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18459-1	MW-3	Total/NA	Water	Total BTEX	
880-18459-2	MW-4	Total/NA	Water	Total BTEX	
880-18459-3	MW-5	Total/NA	Water	Total BTEX	
880-18459-4	MW-6	Total/NA	Water	Total BTEX	
880-18459-5	MW-7	Total/NA	Water	Total BTEX	
880-18459-6	MW-8	Total/NA	Water	Total BTEX	
880-18459-7	MW-9	Total/NA	Water	Total BTEX	
880-18459-8	MW-11S	Total/NA	Water	Total BTEX	
880-18459-9	MW-11D	Total/NA	Water	Total BTEX	
880-18459-10	MW-12S	Total/NA	Water	Total BTEX	
880-18459-11	MW-12D	Total/NA	Water	Total BTEX	
880-18459-12	MW-13D	Total/NA	Water	Total BTEX	

GC Semi VOA

Prep Batch: 33087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18459-1	MW-3	Total/NA	Water	8015NM Aq Prep	

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Prep Batch: 33087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18459-2	MW-4	Total/NA	Water	8015NM Aq Prep	
880-18459-3	MW-5	Total/NA	Water	8015NM Aq Prep	
880-18459-4	MW-6	Total/NA	Water	8015NM Aq Prep	
880-18459-5	MW-7	Total/NA	Water	8015NM Aq Prep	
880-18459-6	MW-8	Total/NA	Water	8015NM Aq Prep	
880-18459-7	MW-9	Total/NA	Water	8015NM Aq Prep	
880-18459-8	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-18459-9	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-18459-10	MW-12S	Total/NA	Water	8015NM Aq Prep	
880-18459-11	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-18459-12	MW-13D	Total/NA	Water	8015NM Aq Prep	
MB 880-33087/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-33087/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-33087/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-18459-1 MS	MW-3	Total/NA	Water	8015NM Aq Prep	
880-18459-1 MSD	MW-3	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 33127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18459-1	MW-3	Total/NA	Water	8015B NM	33087
880-18459-2	MW-4	Total/NA	Water	8015B NM	33087
880-18459-3	MW-5	Total/NA	Water	8015B NM	33087
880-18459-4	MW-6	Total/NA	Water	8015B NM	33087
880-18459-5	MW-7	Total/NA	Water	8015B NM	33087
880-18459-6	MW-8	Total/NA	Water	8015B NM	33087
880-18459-7	MW-9	Total/NA	Water	8015B NM	33087
880-18459-8	MW-11S	Total/NA	Water	8015B NM	33087
880-18459-9	MW-11D	Total/NA	Water	8015B NM	33087
880-18459-10	MW-12S	Total/NA	Water	8015B NM	33087
880-18459-11	MW-12D	Total/NA	Water	8015B NM	33087
880-18459-12	MW-13D	Total/NA	Water	8015B NM	33087
MB 880-33087/1-A	Method Blank	Total/NA	Water	8015B NM	33087
LCS 880-33087/2-A	Lab Control Sample	Total/NA	Water	8015B NM	33087
LCSD 880-33087/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	33087
880-18459-1 MS	MW-3	Total/NA	Water	8015B NM	33087
880-18459-1 MSD	MW-3	Total/NA	Water	8015B NM	33087

Analysis Batch: 33182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18459-1	MW-3	Total/NA	Water	8015 NM	
880-18459-2	MW-4	Total/NA	Water	8015 NM	
880-18459-3	MW-5	Total/NA	Water	8015 NM	
880-18459-4	MW-6	Total/NA	Water	8015 NM	
880-18459-5	MW-7	Total/NA	Water	8015 NM	
880-18459-6	MW-8	Total/NA	Water	8015 NM	
880-18459-7	MW-9	Total/NA	Water	8015 NM	
880-18459-8	MW-11S	Total/NA	Water	8015 NM	
880-18459-9	MW-11D	Total/NA	Water	8015 NM	
880-18459-10	MW-12S	Total/NA	Water	8015 NM	
880-18459-11	MW-12D	Total/NA	Water	8015 NM	
880-18459-12	MW-13D	Total/NA	Water	8015 NM	

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-3
Date Collected: 08/22/22 13:15
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 02:11
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 11:54

Client Sample ID: MW-4
Date Collected: 08/22/22 12:40
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 02:36
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 12:58

Client Sample ID: MW-5
Date Collected: 08/23/22 09:40
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 03:01
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 13:19

Client Sample ID: MW-6
Date Collected: 08/23/22 09:10
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 03:26
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 13:40

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-7
Date Collected: 08/22/22 14:25
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 03:52
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 14:01

Client Sample ID: MW-8
Date Collected: 08/22/22 13:50
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 04:17
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 14:22

Client Sample ID: MW-9
Date Collected: 08/23/22 10:15
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 06:24
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 14:44

Client Sample ID: MW-11S
Date Collected: 08/23/22 11:40
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	33496	MR	EET MID	09/02/22 10:17
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 15:05

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Client Sample ID: MW-11D
Date Collected: 08/23/22 11:10
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 06:49
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 15:26

Client Sample ID: MW-12S
Date Collected: 08/23/22 12:50
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	33594	AJ	EET MID	09/02/22 18:06
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 15:47

Client Sample ID: MW-12D
Date Collected: 08/23/22 12:15
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 07:42
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 16:08

Client Sample ID: MW-13D
Date Collected: 08/23/22 13:25
Date Received: 08/23/22 16:49

Lab Sample ID: 880-18459-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	33496	MR	EET MID	09/02/22 08:08
Total/NA	Analysis	Total BTEX		1	33634	AJ	EET MID	09/02/22 11:09
Total/NA	Analysis	8015 NM		1	33182	SM	EET MID	08/29/22 10:16
Total/NA	Prep	8015NM Aq Prep			33087	DM	EET MID	08/26/22 17:13
Total/NA	Analysis	8015B NM		1	33127	SM	EET MID	08/28/22 16:29

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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
8015 NM		Water	Total TPH
Total BTEX		Water	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-18459-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18459-1	MW-3	Water	08/22/22 13:15	08/23/22 16:49
880-18459-2	MW-4	Water	08/22/22 12:40	08/23/22 16:49
880-18459-3	MW-5	Water	08/23/22 09:40	08/23/22 16:49
880-18459-4	MW-6	Water	08/23/22 09:10	08/23/22 16:49
880-18459-5	MW-7	Water	08/22/22 14:25	08/23/22 16:49
880-18459-6	MW-8	Water	08/22/22 13:50	08/23/22 16:49
880-18459-7	MW-9	Water	08/23/22 10:15	08/23/22 16:49
880-18459-8	MW-11S	Water	08/23/22 11:40	08/23/22 16:49
880-18459-9	MW-11D	Water	08/23/22 11:10	08/23/22 16:49
880-18459-10	MW-12S	Water	08/23/22 12:50	08/23/22 16:49
880-18459-11	MW-12D	Water	08/23/22 12:15	08/23/22 16:49
880-18459-12	MW-13D	Water	08/23/22 13:25	08/23/22 16:49

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Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 18459

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Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name	Ensolum LLC	Company Name:	
Address	601 Mcclintock #400	Address	
City State ZIP:	MIDLAND TX 79701	City, State ZIP	
Phone	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name	South Carlsbad	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name	SHANE DILLER	TAT starts the day received by the lab, if received by 4:30pm	
PO #	03B1226001		

SAMPLE RECEIPT				
Temp Blank.	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR2	
Cooler Custody Seals.	Yes No (N/A)	Correction Factor:	0	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.2	
Total Containers:	3	Corrected Temperature	3.4	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015m	BTEX 5W846 8021B
MW3	GW	8-22-22	1315	-	G	5		X	X
MW4	GW	8-22-22	1240	-	G	5		X	X
MW5	GW	8-23-22	940	-	G	5		X	X
MW6	GW	8-23-22	910	-	G	5		X	X
MW7	GW	8-22-22	1425	-	G	5		X	X
MW8	GW	8-22-22	1350	-	G	5		X	X
MW9	GW	8-23-22	1015	-	G	5		X	X
MW11S	GW	8-23-22	1140	-	G	5		X	X
MW11D	GW	8-23-22	1110	-	G	5		X	X
MW12S	GW	8-23-22	1250	-	G	5		X	X

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

880-18459 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	2	8/23/22 16:49	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No: 18459

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Project Manager	Beau Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address	601 Mowerfield	Address	
City State ZIP	Midland TX 79701	City State ZIP	
Phone	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☒ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	South Carlsbad	Turn Around	
Project Number	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name	SHANE DILLER	TAT starts the day received by the lab if received by 4.30pm	
PO #	03B1226001		

SAMPLE RECEIPT	Temp Blank.	Yes No	Wet Ice	Yes No
Samples Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature		

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015m	BTEX SW846 8021B	Sample Comments
mw-12D	Gw	8-23-22	1215	-	G	5		X	X	
mw-13D	Gw	8-23-22	1325	-	G	5		X	X	

Loc: 880
18459

NPE 8-23-22

CUSTODY SEAL
Date 8-23-22
Signature

Thermo SCIENTIFIC

90009

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		8/23/22 16:49	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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9/5/2022

Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-18459-1
SDG Number: Carlsbad NM

Login Number: 18459
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
705 W. Wadley
Suite 210
Midland Texas 79701

Generated 11/21/2022 10:42:43 AM

JOB DESCRIPTION

South Carlsbad
SDG NUMBER Carlsbad NM

JOB NUMBER

880-21346-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Released to Imaging: 7/16/2024 3:56:32 PM

Client: Ensolum
Project/Site: South Carlsbad

Laboratory Job ID: 880-21346-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Qualifiers

GC 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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Job ID: 880-21346-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21346-1

Receipt
The samples were received on 11/9/2022 8:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-39392 recovered outside control limits for the following analytes: Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-39939/2-A) and (LCSD 880-39939/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: MW-3 (880-21346-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: MW-4 (880-21346-2), MW-5 (880-21346-3) and MW-6 (880-21346-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: MW-12D (880-21346-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-39939 and analytical batch 880-39986 contained Gasoline Range Organics (GRO)-C6-C10 and OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-3

Date Collected: 11/08/22 09:15
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-1
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/14/22 11:13	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/22 11:13	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 11:13	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 11:13	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 11:13	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/14/22 11:13*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*		*11/14/22 11:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			11/14/22 15:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.904	U	4.57	0.904	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		11/18/22 15:42	11/20/22 20:23	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		11/18/22 15:42	11/20/22 20:23	1
OII Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		11/18/22 15:42	11/20/22 20:23	1
Total TPH	<0.904	U	4.57	0.904	mg/L		11/18/22 15:42	11/20/22 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*11/18/22 15:42*	*11/20/22 20:23*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*11/18/22 15:42*	*11/20/22 20:23*	*1*

Client Sample ID: MW-4

Date Collected: 11/08/22 08:45
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-2
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/14/22 15:39	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/22 15:39	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 15:39	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 15:39	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 15:39	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*11/14/22 15:39*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*11/14/22 15:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			11/15/22 10:26	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-4

Date Collected: 11/08/22 08:45
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-2
Matrix: Water

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.904	U	4.57	0.904	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		11/18/22 15:42	11/20/22 21:27	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		11/18/22 15:42	11/20/22 21:27	1
OII Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		11/18/22 15:42	11/20/22 21:27	1
Total TPH	<0.904	U	4.57	0.904	mg/L		11/18/22 15:42	11/20/22 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*11/18/22 15:42*	*11/20/22 21:27*	*1*
o-Terphenyl	*150*	*S1+*	*70 - 130*	*11/18/22 15:42*	*11/20/22 21:27*	*1*

Client Sample ID: MW-5

Date Collected: 11/08/22 14:40
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-3
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00573**		0.00200	0.000408	mg/L			11/14/22 11:54	1
Toluene	**0.00281**		0.00200	0.000367	mg/L			11/14/22 11:54	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 11:54	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 11:54	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 11:54	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/14/22 11:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*11/14/22 11:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00854**		0.00400	0.000657	mg/L			11/14/22 15:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.901	U	4.56	0.901	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 21:48	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 21:48	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		11/18/22 15:42	11/20/22 21:48	1
Total TPH	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/18/22 15:42*	*11/20/22 21:48*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*11/18/22 15:42*	*11/20/22 21:48*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-6

Date Collected: 11/08/22 11:00
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-4
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000648**	**J**	0.00200	0.000408	mg/L			11/14/22 12:14	1
Toluene	**0.000649**	**J**	0.00200	0.000367	mg/L			11/14/22 12:14	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 12:14	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 12:14	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 12:14	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/14/22 12:14*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*11/14/22 12:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00130**	**J**	0.00400	0.000657	mg/L			11/14/22 15:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.901	U	4.56	0.901	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:10	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:10	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		11/18/22 15:42	11/20/22 22:10	1
Total TPH	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*11/18/22 15:42*	*11/20/22 22:10*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*11/18/22 15:42*	*11/20/22 22:10*	*1*

Client Sample ID: MW-7

Date Collected: 11/08/22 10:25
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-5
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/14/22 12:35	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/22 12:35	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 12:35	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 12:35	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 12:35	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/14/22 12:35*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*11/14/22 12:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			11/14/22 15:39	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-7

Lab Sample ID: 880-21346-5
Matrix: Water
Date Collected: 11/08/22 10:25
Date Received: 11/09/22 08:19

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.901	U	4.56	0.901	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:31	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:31	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		11/18/22 15:42	11/20/22 22:31	1
Total TPH	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*11/18/22 15:42*	*11/20/22 22:31*	*1*
o-Terphenyl	*116*		*70 - 130*	*11/18/22 15:42*	*11/20/22 22:31*	*1*

Client Sample ID: MW-8

Lab Sample ID: 880-21346-6
Matrix: Water
Date Collected: 11/08/22 09:45
Date Received: 11/09/22 08:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/14/22 12:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/22 12:55	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 12:55	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 12:55	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 12:55	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/14/22 12:55*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*11/14/22 12:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			11/14/22 15:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.901	U	4.56	0.901	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:53	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:53	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		11/18/22 15:42	11/20/22 22:53	1
Total TPH	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/18/22 15:42*	*11/20/22 22:53*	*1*
o-Terphenyl	*119*		*70 - 130*	*11/18/22 15:42*	*11/20/22 22:53*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-9

Date Collected: 11/08/22 11:45
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-7
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0417**		0.00200	0.000408	mg/L			11/14/22 13:16	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/22 13:16	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 13:16	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 13:16	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 13:16	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/14/22 13:16*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*		*11/14/22 13:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0417**		0.00400	0.000657	mg/L			11/14/22 15:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 23:14	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 23:14	1
OII Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		11/18/22 15:42	11/20/22 23:14	1
Total TPH	<0.898	U	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/18/22 15:42*	*11/20/22 23:14*	*1*
o-Terphenyl	*125*		*70 - 130*	*11/18/22 15:42*	*11/20/22 23:14*	*1*

Client Sample ID: MW-11S

Date Collected: 11/08/22 13:05
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-8
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.07**		0.0200	0.00408	mg/L			11/14/22 18:45	10
Toluene	**0.00378**	**J**	0.0200	0.00367	mg/L			11/14/22 18:45	10
Ethylbenzene	**0.236**	***1**	0.0200	0.00657	mg/L			11/14/22 18:45	10
m-Xylene & p-Xylene	**0.534**	***1**	0.0400	0.00629	mg/L			11/14/22 18:45	10
o-Xylene	<0.00642	U *1	0.0200	0.00642	mg/L			11/14/22 18:45	10
Xylenes, Total	**0.534**	***1**	0.0400	0.00642	mg/L			11/14/22 18:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/14/22 18:45*	*10*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*		*11/14/22 18:45*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.84**		0.0400	0.00657	mg/L			11/15/22 10:26	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-11S

Lab Sample ID: 880-21346-8
Matrix: Water
Date Collected: 11/08/22 13:05
Date Received: 11/09/22 08:19

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**21.5**		4.56	0.901	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**12.5**	**B**	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 23:36	1
Diesel Range Organics (Over C10-C28)	**8.97**		4.56	0.901	mg/L		11/18/22 15:42	11/20/22 23:36	1
Oil Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		11/18/22 15:42	11/20/22 23:36	1
Total TPH	**21.5**	**B**	4.56	0.901	mg/L		11/18/22 15:42	11/20/22 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*11/18/22 15:42*	*11/20/22 23:36*	*1*
o-Terphenyl	*125*		*70 - 130*	*11/18/22 15:42*	*11/20/22 23:36*	*1*

Client Sample ID: MW-11D

Lab Sample ID: 880-21346-9
Matrix: Water
Date Collected: 11/08/22 12:20
Date Received: 11/09/22 08:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00760**		0.00200	0.000408	mg/L			11/14/22 13:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/22 13:37	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 13:37	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 13:37	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 13:37	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/14/22 13:37*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*11/14/22 13:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00760**		0.00400	0.000657	mg/L			11/14/22 15:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 23:57	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 23:57	1
Oil Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		11/18/22 15:42	11/20/22 23:57	1
Total TPH	<0.898	U	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*11/18/22 15:42*	*11/20/22 23:57*	*1*
o-Terphenyl	*119*		*70 - 130*	*11/18/22 15:42*	*11/20/22 23:57*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-12S

Lab Sample ID: 880-21346-10
Matrix: Water
Date Collected: 11/08/22 14:05
Date Received: 11/09/22 08:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.42**		0.0200	0.00408	mg/L			11/14/22 14:18	10
Toluene	**0.00574**	**J**	0.0200	0.00367	mg/L			11/14/22 14:18	10
Ethylbenzene	**0.342**	***1**	0.0200	0.00657	mg/L			11/14/22 14:18	10
m-Xylene & p-Xylene	**0.0561**	***1**	0.0400	0.00629	mg/L			11/14/22 14:18	10
o-Xylene	<0.00642	U *1	0.0200	0.00642	mg/L			11/14/22 14:18	10
Xylenes, Total	**0.0561**	***1**	0.0400	0.00642	mg/L			11/14/22 14:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/14/22 14:18*	*10*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*		*11/14/22 14:18*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.82**		0.0400	0.00657	mg/L			11/14/22 15:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**11.3**		4.56	0.901	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**5.86**	**B**	4.56	0.901	mg/L		11/18/22 15:42	11/21/22 00:20	1
Diesel Range Organics (Over C10-C28)	**5.44**		4.56	0.901	mg/L		11/18/22 15:42	11/21/22 00:20	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		11/18/22 15:42	11/21/22 00:20	1
Total TPH	**11.3**	**B**	4.56	0.901	mg/L		11/18/22 15:42	11/21/22 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/18/22 15:42*	*11/21/22 00:20*	*1*
o-Terphenyl	*110*		*70 - 130*	*11/18/22 15:42*	*11/21/22 00:20*	*1*

Client Sample ID: MW-12D

Lab Sample ID: 880-21346-11
Matrix: Water
Date Collected: 11/08/22 13:35
Date Received: 11/09/22 08:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00216**		0.00200	0.000408	mg/L			11/14/22 16:01	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/22 16:01	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			11/14/22 16:01	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			11/14/22 16:01	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/14/22 16:01	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/14/22 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/14/22 16:01*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*11/14/22 16:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00216**	**J**	0.00400	0.000657	mg/L			11/15/22 10:26	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-12D

Lab Sample ID: 880-21346-11
Matrix: Water
Date Collected: 11/08/22 13:35
Date Received: 11/09/22 08:19

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.901	U	4.56	0.901	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/21/22 01:03	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/21/22 01:03	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		11/18/22 15:42	11/21/22 01:03	1
Total TPH	<0.901	U	4.56	0.901	mg/L		11/18/22 15:42	11/21/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/18/22 15:42*	*11/21/22 01:03*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*11/18/22 15:42*	*11/21/22 01:03*	*1*

Client Sample ID: MW-13D

Lab Sample ID: 880-21346-12
Matrix: Water
Date Collected: 11/08/22 15:15
Date Received: 11/09/22 08:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00408	U	0.0200	0.00408	mg/L			11/14/22 16:21	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			11/14/22 16:21	10
Ethylbenzene	<0.00657	U *1	0.0200	0.00657	mg/L			11/14/22 16:21	10
m-Xylene & p-Xylene	<0.00629	U *1	0.0400	0.00629	mg/L			11/14/22 16:21	10
o-Xylene	<0.00642	U *1	0.0200	0.00642	mg/L			11/14/22 16:21	10
Xylenes, Total	<0.00642	U *1	0.0400	0.00642	mg/L			11/14/22 16:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*11/14/22 16:21*	*10*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*		*11/14/22 16:21*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00657	U	0.0400	0.00657	mg/L			11/15/22 10:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			11/21/22 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		11/18/22 15:42	11/21/22 01:24	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		11/18/22 15:42	11/21/22 01:24	1
OII Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		11/18/22 15:42	11/21/22 01:24	1
Total TPH	<0.895	U	4.53	0.895	mg/L		11/18/22 15:42	11/21/22 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/18/22 15:42*	*11/21/22 01:24*	*1*
o-Terphenyl	*121*		*70 - 130*	*11/18/22 15:42*	*11/21/22 01:24*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21346-1	MW-3	94	107
880-21346-1 MS	MW-3	103	119
880-21346-1 MSD	MW-3	108	126
880-21346-2	MW-4	85	95
880-21346-3	MW-5	94	100
880-21346-4	MW-6	92	99
880-21346-5	MW-7	96	105
880-21346-6	MW-8	96	103
880-21346-7	MW-9	94	108
880-21346-8	MW-11S	92	130
880-21346-9	MW-11D	94	105
880-21346-10	MW-12S	102	121
880-21346-11	MW-12D	97	103
880-21346-12	MW-13D	88	94
LCS 880-39392/3	Lab Control Sample	89	120
LCSD 880-39392/4	Lab Control Sample Dup	104	104
MB 880-39392/8	Method Blank	84	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21346-1	MW-3	114	133 S1+
880-21346-1 MS	MW-3	106	115
880-21346-1 MSD	MW-3	107	117
880-21346-2	MW-4	124	150 S1+
880-21346-3	MW-5	111	132 S1+
880-21346-4	MW-6	110	131 S1+
880-21346-5	MW-7	98	116
880-21346-6	MW-8	101	119
880-21346-7	MW-9	105	125
880-21346-8	MW-11S	106	125
880-21346-9	MW-11D	98	119
880-21346-10	MW-12S	93	110
880-21346-11	MW-12D	111	131 S1+
880-21346-12	MW-13D	101	121
LCS 880-39939/2-A	Lab Control Sample	170 S1+	199 S1+
LCSD 880-39939/3-A	Lab Control Sample Dup	167 S1+	196 S1+
MB 880-39939/1-A	Method Blank	105	126

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39392/8
Matrix: Water
Analysis Batch: 39392

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/14/22 10:51	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/22 10:51	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/14/22 10:51	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/14/22 10:51	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/14/22 10:51	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/14/22 10:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*11/14/22 10:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*11/14/22 10:51*	*1*

Lab Sample ID: LCS 880-39392/3
Matrix: Water
Analysis Batch: 39392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09579		mg/L		96	70 - 130		
Toluene			0.100	0.07990		mg/L		80	70 - 130		
Ethylbenzene			0.100	0.07578		mg/L		76	70 - 130		
m-Xylene & p-Xylene			0.200	0.1537		mg/L		77	70 - 130		
o-Xylene			0.100	0.07529		mg/L		75	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 880-39392/4
Matrix: Water
Analysis Batch: 39392

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
Benzene			0.100	0.1066		mg/L		107	70 - 130	11	20
Toluene			0.100	0.09659		mg/L		97	70 - 130	19	20
Ethylbenzene			0.100	0.09778	*1	mg/L		98	70 - 130	25	20
m-Xylene & p-Xylene			0.200	0.2051	*1	mg/L		103	70 - 130	29	20
o-Xylene			0.100	0.09980	*1	mg/L		100	70 - 130	28	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-21346-1 MS
Matrix: Water
Analysis Batch: 39392

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000408	U	0.100	0.09815		mg/L		98	70 - 130		
Toluene	<0.000367	U	0.100	0.08507		mg/L		85	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-21346-1 MS
Matrix: Water
Analysis Batch: 39392

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000657	U *1	0.100	0.08715		mg/L		87	70 - 130
m-Xylene & p-Xylene	<0.000629	U *1	0.200	0.1787		mg/L		89	70 - 130
o-Xylene	<0.000642	U *1	0.100	0.08782		mg/L		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Lab Sample ID: 880-21346-1 MSD
Matrix: Water
Analysis Batch: 39392

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.1123		mg/L		112	70 - 130	13	25
Toluene	<0.000367	U	0.100	0.09487		mg/L		95	70 - 130	11	25
Ethylbenzene	<0.000657	U *1	0.100	0.09793		mg/L		98	70 - 130	12	25
m-Xylene & p-Xylene	<0.000629	U *1	0.200	0.2011		mg/L		101	70 - 130	12	25
o-Xylene	<0.000642	U *1	0.100	0.09782		mg/L		98	70 - 130	11	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39939/1-A
Matrix: Water
Analysis Batch: 39986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39939

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.710	J	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 19:18	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 19:18	1
OII Range Organics (Over C28-C36)	1.573	J	4.55	0.867	mg/L		11/18/22 15:42	11/20/22 19:18	1
Total TPH	3.283	J	4.55	0.898	mg/L		11/18/22 15:42	11/20/22 19:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/18/22 15:42*	*11/20/22 19:18*	*1*
o-Terphenyl	*126*		*70 - 130*	*11/18/22 15:42*	*11/20/22 19:18*	*1*

Lab Sample ID: LCS 880-39939/2-A
Matrix: Water
Analysis Batch: 39986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39939

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			90.4	81.99		mg/L		91	75 - 125

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-39939/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39986 — **Prep Batch: 39939**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			90.4	90.43		mg/L		100	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*170*	*S1+*	*70 - 130*
o-Terphenyl	*199*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-39939/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39986 — **Prep Batch: 39939**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			90.6	80.71		mg/L		89	75 - 125	2	20
Diesel Range Organics (Over C10-C28)			90.6	89.31		mg/L		99	75 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*167*	*S1+*	*70 - 130*
o-Terphenyl	*196*	*S1+*	*70 - 130*

Lab Sample ID: 880-21346-1 MS — **Client Sample ID: MW-3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39986 — **Prep Batch: 39939**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	91.2	90.90		mg/L		100	75 - 125		
Diesel Range Organics (Over C10-C28)	<0.904	U	91.2	106.1		mg/L		116	75 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: 880-21346-1 MSD — **Client Sample ID: MW-3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 39986 — **Prep Batch: 39939**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	91.5	89.85		mg/L		98	75 - 125	1	20
Diesel Range Organics (Over C10-C28)	<0.904	U	91.5	109.0		mg/L		119	75 - 125	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

GC VOA

Analysis Batch: 39392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21346-1	MW-3	Total/NA	Water	8021B	
880-21346-2	MW-4	Total/NA	Water	8021B	
880-21346-3	MW-5	Total/NA	Water	8021B	
880-21346-4	MW-6	Total/NA	Water	8021B	
880-21346-5	MW-7	Total/NA	Water	8021B	
880-21346-6	MW-8	Total/NA	Water	8021B	
880-21346-7	MW-9	Total/NA	Water	8021B	
880-21346-8	MW-11S	Total/NA	Water	8021B	
880-21346-9	MW-11D	Total/NA	Water	8021B	
880-21346-10	MW-12S	Total/NA	Water	8021B	
880-21346-11	MW-12D	Total/NA	Water	8021B	
880-21346-12	MW-13D	Total/NA	Water	8021B	
MB 880-39392/8	Method Blank	Total/NA	Water	8021B	
LCS 880-39392/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-39392/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-21346-1 MS	MW-3	Total/NA	Water	8021B	
880-21346-1 MSD	MW-3	Total/NA	Water	8021B	

Analysis Batch: 39541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21346-1	MW-3	Total/NA	Water	Total BTEX	
880-21346-2	MW-4	Total/NA	Water	Total BTEX	
880-21346-3	MW-5	Total/NA	Water	Total BTEX	
880-21346-4	MW-6	Total/NA	Water	Total BTEX	
880-21346-5	MW-7	Total/NA	Water	Total BTEX	
880-21346-6	MW-8	Total/NA	Water	Total BTEX	
880-21346-7	MW-9	Total/NA	Water	Total BTEX	
880-21346-8	MW-11S	Total/NA	Water	Total BTEX	
880-21346-9	MW-11D	Total/NA	Water	Total BTEX	
880-21346-10	MW-12S	Total/NA	Water	Total BTEX	
880-21346-11	MW-12D	Total/NA	Water	Total BTEX	
880-21346-12	MW-13D	Total/NA	Water	Total BTEX	

GC Semi VOA

Prep Batch: 39939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21346-1	MW-3	Total/NA	Water	8015NM Aq Prep	
880-21346-2	MW-4	Total/NA	Water	8015NM Aq Prep	
880-21346-3	MW-5	Total/NA	Water	8015NM Aq Prep	
880-21346-4	MW-6	Total/NA	Water	8015NM Aq Prep	
880-21346-5	MW-7	Total/NA	Water	8015NM Aq Prep	
880-21346-6	MW-8	Total/NA	Water	8015NM Aq Prep	
880-21346-7	MW-9	Total/NA	Water	8015NM Aq Prep	
880-21346-8	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-21346-9	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-21346-10	MW-12S	Total/NA	Water	8015NM Aq Prep	
880-21346-11	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-21346-12	MW-13D	Total/NA	Water	8015NM Aq Prep	
MB 880-39939/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-39939/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Prep Batch: 39939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-39939/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-21346-1 MS	MW-3	Total/NA	Water	8015NM Aq Prep	
880-21346-1 MSD	MW-3	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 39986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21346-1	MW-3	Total/NA	Water	8015B NM	39939
880-21346-2	MW-4	Total/NA	Water	8015B NM	39939
880-21346-3	MW-5	Total/NA	Water	8015B NM	39939
880-21346-4	MW-6	Total/NA	Water	8015B NM	39939
880-21346-5	MW-7	Total/NA	Water	8015B NM	39939
880-21346-6	MW-8	Total/NA	Water	8015B NM	39939
880-21346-7	MW-9	Total/NA	Water	8015B NM	39939
880-21346-8	MW-11S	Total/NA	Water	8015B NM	39939
880-21346-9	MW-11D	Total/NA	Water	8015B NM	39939
880-21346-10	MW-12S	Total/NA	Water	8015B NM	39939
880-21346-11	MW-12D	Total/NA	Water	8015B NM	39939
880-21346-12	MW-13D	Total/NA	Water	8015B NM	39939
MB 880-39939/1-A	Method Blank	Total/NA	Water	8015B NM	39939
LCS 880-39939/2-A	Lab Control Sample	Total/NA	Water	8015B NM	39939
LCSD 880-39939/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	39939
880-21346-1 MS	MW-3	Total/NA	Water	8015B NM	39939
880-21346-1 MSD	MW-3	Total/NA	Water	8015B NM	39939

Analysis Batch: 40102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21346-1	MW-3	Total/NA	Water	8015 NM	
880-21346-2	MW-4	Total/NA	Water	8015 NM	
880-21346-3	MW-5	Total/NA	Water	8015 NM	
880-21346-4	MW-6	Total/NA	Water	8015 NM	
880-21346-5	MW-7	Total/NA	Water	8015 NM	
880-21346-6	MW-8	Total/NA	Water	8015 NM	
880-21346-7	MW-9	Total/NA	Water	8015 NM	
880-21346-8	MW-11S	Total/NA	Water	8015 NM	
880-21346-9	MW-11D	Total/NA	Water	8015 NM	
880-21346-10	MW-12S	Total/NA	Water	8015 NM	
880-21346-11	MW-12D	Total/NA	Water	8015 NM	
880-21346-12	MW-13D	Total/NA	Water	8015 NM	

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-3
Date Collected: 11/08/22 09:15
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 11:13
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/14/22 15:39
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 20:23

Client Sample ID: MW-4
Date Collected: 11/08/22 08:45
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 15:39
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/15/22 10:26
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 21:27

Client Sample ID: MW-5
Date Collected: 11/08/22 14:40
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 11:54
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/14/22 15:39
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 21:48

Client Sample ID: MW-6
Date Collected: 11/08/22 11:00
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 12:14
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/14/22 15:39
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 22:10

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-7
Date Collected: 11/08/22 10:25
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 12:35
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/14/22 15:39
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 22:31

Client Sample ID: MW-8
Date Collected: 11/08/22 09:45
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 12:55
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/14/22 15:39
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 22:53

Client Sample ID: MW-9
Date Collected: 11/08/22 11:45
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 13:16
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/14/22 15:39
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 23:14

Client Sample ID: MW-11S
Date Collected: 11/08/22 13:05
Date Received: 11/09/22 08:19

Lab Sample ID: 880-21346-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	39392	MNR	EET MID	11/14/22 18:45
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/15/22 10:26
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 23:36

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Client Sample ID: MW-11D

Lab Sample ID: 880-21346-9
Matrix: Water
Date Collected: 11/08/22 12:20
Date Received: 11/09/22 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 13:37
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/14/22 15:39
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/20/22 23:57

Client Sample ID: MW-12S

Lab Sample ID: 880-21346-10
Matrix: Water
Date Collected: 11/08/22 14:05
Date Received: 11/09/22 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	39392	MNR	EET MID	11/14/22 14:18
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/14/22 15:39
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/21/22 00:20

Client Sample ID: MW-12D

Lab Sample ID: 880-21346-11
Matrix: Water
Date Collected: 11/08/22 13:35
Date Received: 11/09/22 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	39392	MNR	EET MID	11/14/22 16:01
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/15/22 10:26
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/21/22 01:03

Client Sample ID: MW-13D

Lab Sample ID: 880-21346-12
Matrix: Water
Date Collected: 11/08/22 15:15
Date Received: 11/09/22 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	39392	MNR	EET MID	11/14/22 16:21
Total/NA	Analysis	Total BTEX		1	39541	SM	EET MID	11/15/22 10:26
Total/NA	Analysis	8015 NM		1	40102	SM	EET MID	11/21/22 11:32
Total/NA	Prep	8015NM Aq Prep			39939	DM	EET MID	11/18/22 15:42
Total/NA	Analysis	8015B NM		1	39986	SM	EET MID	11/21/22 01:24

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Total TPH
Total BTEX		Water	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad

Job ID: 880-21346-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21346-1	MW-3	Water	11/08/22 09:15	11/09/22 08:19
880-21346-2	MW-4	Water	11/08/22 08:45	11/09/22 08:19
880-21346-3	MW-5	Water	11/08/22 14:40	11/09/22 08:19
880-21346-4	MW-6	Water	11/08/22 11:00	11/09/22 08:19
880-21346-5	MW-7	Water	11/08/22 10:25	11/09/22 08:19
880-21346-6	MW-8	Water	11/08/22 09:45	11/09/22 08:19
880-21346-7	MW-9	Water	11/08/22 11:45	11/09/22 08:19
880-21346-8	MW-11S	Water	11/08/22 13:05	11/09/22 08:19
880-21346-9	MW-11D	Water	11/08/22 12:20	11/09/22 08:19
880-21346-10	MW-12S	Water	11/08/22 14:05	11/09/22 08:19
880-21346-11	MW-12D	Water	11/08/22 13:35	11/09/22 08:19
880-21346-12	MW-13D	Water	11/08/22 15:15	11/09/22 08:19

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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 21346

www.xenco.com Page 1 of 2

Project Manager:	Beaur Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marienfeld 400	Address	
City, State ZIP:	MIDLAND TX 79701	City, State ZIP:	
Phone:	432 230 3344	Email	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	South Carlsbad	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date:	
Sampler's Name:	Shane D. Iler	TAT starts the day received by the lab, if received by 4:30pm	
PO #	03B1226001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.30
Sample Custody Seals:	Yes No N/A	Temperature Reading	5.3
Total Containers:	2	Corrected Temperature:	5.0

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TPH 8015	Parameters: BTEX 8021B
mw-3	GW	11-8-22	915	—	G	5	X	X
mw-4	GW	11-8-22	845	—	G	5	X	X
mw-5	GW	11-8-22	1440	—	G	5	X	X
mw-6	GW	11-8-22	1100	—	G	5	X	X
mw-7	GW	11-8-22	1025	—	G	5	X	X
mw-8	GW	11-8-22	945	—	G	5	X	X
mw-9	GW	11-8-22	1145	—	G	5	X	X
mw-11S	GW	11-8-22	1305	—	G	5	X	X
mw-11D	GW	11-8-22	1220	—	G	5	X	X
mw-12S	GW	11-8-22	1405	—	G	5	X	X

880-21346 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			11/9/22	2		
3			8:19	4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/10/2024 12:12:43 PM
Released to Imaging: 7/16/2024 3:56:32 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Work Order No: 21346

www.xenco.com Page 2 of 2

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marienfeld 400	Address:	
City, State ZIP:	MIDLAND TX 79701	City, State ZIP:	
Phone:	432 230 3344	Email	bjennings@ensolum

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date	
Sampler's Name:	Shane D. Iler	TAT starts the day received by the lab, if received by 4.30pm	
PO #	03B1226001		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals.	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015 TX1005	Parameters: BTEX 8021B	Sample Comments
MW-12D	GW	11-8-22	1335	-	G	5		X	X	
MW-13D	GW	11-8-22	15-15	-	G	5		X	X	

MTE 11-8-22 5

Loc: 880
21346

1000031

Custody Seal
11-9-22
DATE
SIGNATURE

eurofins | Environment Testing TestAmerica

1000031

Total 200.7 / 6010

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/9/22 0819	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/10/2024 12:12:43 PM

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11/21/2022

Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-21346-1
SDG Number: Carlsbad NM

Login Number: 21346
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
11/21/2022 10:42:43 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

ENSOLUM

APPENDIX D

OSE P&A Application Documentation

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

June 6, 2022

Enterprise Field Service, LLC
PO Box 4234
Harris TX 77210

RE: Well Plugging Plan of Operations for MW-1, C-03888-POD2, and C-03888-POD5

Greetings:
Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced project. The proposed method of operation 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.

(1) Plugging operations shall also be conducted in accordance with NMED, NMOCD, or other State or Federal agencies having oversight for the above described project.
(2) Neat Cement Slurry: No more than 6.0 Gallons water per 94-lb sack Portland cement
(3) Any deviation from this plan must obtain an approved variance from this office prior to implementation.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Julio Sanchez
Water Resources Professional II

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☑ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: POD1 (SB-1)

Name of well owner: Enterprise Field Services, LLC

Mailing address: PO Box 4234 County: Harris

City: Houston State: TX Zip code: 77210

Phone number: 713-381-8780 E-mail: gemiller@eprod.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: West Texas Water Well Service

New Mexico Well Driller License No.: WD-1184 Expiration Date: October 31, 2023

IV. WELL INFORMATION: ☑ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: _____ deg, _____ min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, NAD 83

2) Reason(s) for plugging well(s): OSE DIT MAY 19 2022 AM 11:30

No longer needed for monitoring well network and/or sampling.

3) Was well used for any type of monitoring program? Yes If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? N/A If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: 12.25 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 35 feet

7) Inside diameter of innermost casing: 2 inches.

8) Casing material: PVC

9) The well was constructed with:

☐ an open-hole production interval, state the open interval: _____

■ a well screen or perforated pipe, state the screened interval(s): 5 - 35

10) What annular interval surrounding the artesian casing of this well is cement-grouted? 0 - 2

11) Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? N/A If yes, please describe:

12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

☐ **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

The monitoring wells will be plugged tremie from bottom to a slurry of Portland TYPE I/II Neat cement in lifts

2) Will well head be cut-off below land surface after plugging? Yes

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: 35

4) Type of Cement proposed: Type I/II Neat Cement

5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: _____ batch-mixed and delivered to the site

X mixed on site

OSE DII MAY 19 2022 AM11:30

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	35
Theoretical volume of grout required per interval (gallons)	N/A	N/A	6
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch-mixed and delivered?	N/A	N/A	On-site
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

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TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	35
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	6
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug

OSE DIT MAY 19 2022 AM 11:30

7) Grout additives requested, and percent by dry weight relative to cement:

N/A

8) Additional notes and calculations:

N/A

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

Volumes calculated on an up to an approximate 2" PVC casing

VIII. SIGNATURE:

I, Beaux Jennings, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Signature of Applicant — Date: 5/10/2022

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

OSE DIT MAY 19 2022 AM 11:30

✓ Approved subject to the attached conditions.

_____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 6th day of June, 2022

Mike A. Hamman P.E.

~~John R. D'Antonio Jr., P.E.~~, New Mexico State Engineer

By: Jules Dan

GREAT SEAL OF THE STATE OF NEW MEXICO * 1912 *

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT to WD-08 Plan of Plugging
MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM Central Zone
☐ NM East Zone

☒ UTM (NAD83) (Meters)
☒ Zone 13N
☐ Zone 12N

☒ Lat/Long (WGS84) (1/10th of second)

OTHER (allowable only for move-from descriptions - see application form for format)
☒ PLSS (quarters, section, township, range)
☐ Hydrographic Survey, Map & Tract
☐ Lot, Block & Subdivision
☐ Grant

OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
NA	MW-1	-104.13658	32.31312	SE1/4 SE1/4 S12 T23S R27E	2	11	36	6 gal	N
C 03888 POD2	MW-7	581400	3575557	SE1/4 SE1/4 S12 T23S R27E	2	12	35	6 gal	N
C 03888 POD5	MW-10	581295	3575494	SE1/4 SE1/4 S12 T23S R27E	2	11	35	6 gal	N

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FOR OSE INTERNAL USE Multiple Montioring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number:	Trn Number:
Trans Description (optional):	

ENSOLUM

APPENDIX E

Supporting Documentation

Beaux Jennings

From: Beaux Jennings
Sent: Thursday, February 24, 2022 9:38 AM
To: Billings, Bradford, EMNRD
Cc: 'Drewry, Scott'
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

Understood. Thank you!

-Beaux

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Thursday, February 24, 2022 9:30 AM
To: Beaux Jennings <bjennings@ensolum.com>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

Hi,

When submitting reports to portal, please include any sent notifications, extensions, etc. to OCD involved in time period of report/plan/request, etc. in the portal submitted report. Getting data base to track for us. Thanks.

Bradford

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Wednesday, February 23, 2022 6:56 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

Thank you Brad. Just to confirm, are you referring to this email chain or the OCD Permitting Portal?

-Beaux

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Tuesday, February 22, 2022 9:22 AM
To: Beaux Jennings <bjennings@ensolum.com>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

Thank you for the notification. Please copy this communication, and in fact all communication regarding notification and or extensions to all associated reports, going forward. This request is being made to all consultants and responsible parties for data base tracking. Thanks again.

Bradford Billings
EMNRD/OCD

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, February 22, 2022 7:34 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: 'Miller, Greg' <gemiller@eprod.com>; 'Drewry, Scott' <sdrewry@eprod.com>; 'jncooksey@eprod.com'

<jncooksey@eprod.com>; Dunaway, Robert <rhdunaway@eprod.com>
Subject: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Billings,

On behalf of Enterprise Field Services, LLC, Ensolum will be conducting quarterly groundwater monitoring at the South Carlsbad Compressor Station on Monday, February 28th and Tuesday, March 1st.

If you have any questions, please let me know.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

Beaux Jennings

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Thursday, May 19, 2022 9:11 AM
To: Beaux Jennings
Cc: 'Miller, Greg'; 'Drewry, Scott'; 'jncooksey@eprod.com'; Dunaway, Robert
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

[**EXTERNAL EMAIL**]

Hello,

Thank you for the notification. Please include this communication in associated report(s). In future, please include approximate times.

Bradford Billings
EMNRD/OCD

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Wednesday, May 18, 2022 8:36 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: 'Miller, Greg' <gemiller@eprod.com>; 'Drewry, Scott' <sdrewry@eprod.com>; 'jncooksey@eprod.com' <jncooksey@eprod.com>; Dunaway, Robert <rhdunaway@eprod.com>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

Mr. Billings,

On behalf of Enterprise Field Services, LLC, Ensolum will be conducting quarterly groundwater monitoring at the South Carlsbad Compressor Station on Tuesday, May 24th and Wednesday, May 25th.

If you have any questions, please let me know.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Thursday, February 24, 2022 9:30 AM
To: Beaux Jennings <bjennings@ensolum.com>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

Hi,

When submitting reports to portal, please include any sent notifications, extensions, etc. to OCD involved in time period of report/plan/request, etc. in the portal submitted report. Getting data base to track for us. Thanks.

Bradford

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Wednesday, February 23, 2022 6:56 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

Thank you Brad. Just to confirm, are you referring to this email chain or the OCD Permitting Portal?

-Beaux

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Tuesday, February 22, 2022 9:22 AM
To: Beaux Jennings <bjennings@ensolum.com>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

Thank you for the notification. Please copy this communication, and in fact all communication regarding notification and or extensions to all associated reports, going forward. This request is being made to all consultants and responsible parties for data base tracking. Thanks again.

Bradford Billings
EMNRD/OCD

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, February 22, 2022 7:34 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: 'Miller, Greg' <gemiller@eprod.com>; 'Drewry, Scott' <sdrewry@eprod.com>; 'jncooksey@eprod.com' <jncooksey@eprod.com>; Dunaway, Robert <rhdunaway@eprod.com>
Subject: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Billings,

On behalf of Enterprise Field Services, LLC, Ensolum will be conducting quarterly groundwater monitoring at the South Carlsbad Compressor Station on Monday, February 28th and Tuesday, March 1st.

If you have any questions, please let me know.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

Beaux Jennings

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Thursday, August 18, 2022 9:25 AM
To: Beaux Jennings
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

[**EXTERNAL EMAIL**]

Hi,

Thank you for the notification. Please keep this communication and include with allied report.

Bradford Billings
EMNRD/OCD

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Wednesday, August 17, 2022 8:30 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: 'Miller, Greg' <gemiller@eprod.com>; 'Drewry, Scott' <sdrewry@eprod.com>; 'jncooksey@eprod.com' <jncooksey@eprod.com>; Dunaway, Robert <rhdunaway@eprod.com>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

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On behalf of Enterprise Field Services, LLC, Ensolum will be conducting quarterly groundwater monitoring at the South Carlsbad Compressor Station on Monday, August 22nd and Tuesday, August 23rd.

If you have any questions, please let us know.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Thursday, May 19, 2022 9:11 AM
To: Beaux Jennings <bjennings@ensolum.com>
Cc: 'Miller, Greg' <gemiller@eprod.com>; 'Drewry, Scott' <sdrewry@eprod.com>; 'jncooksey@eprod.com' <jncooksey@eprod.com>; Dunaway, Robert <rhdunaway@eprod.com>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

[**EXTERNAL EMAIL**]

Hello,

Thank you for the notification. Please include this communication in associated report(s). In future, please include approximate times.

Bradford Billings
EMNRD/OCD

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Wednesday, May 18, 2022 8:36 PM
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Cc: 'Miller, Greg' <gemiller@eprod.com>; 'Drewry, Scott' <sdrewry@eprod.com>; 'jncooksey@eprod.com' <jncooksey@eprod.com>; Dunaway, Robert <rhdunaway@eprod.com>
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Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

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Bradford

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Sent: Wednesday, February 23, 2022 6:56 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Permit No. 2R-422)

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If you have any questions, please let me know.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS GP, LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

June 10, 2024

Submitted online via OCD E-Permitting:
https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/default.aspx

Mr. Michael Buchanan
New Mexico Energy, Mineral & Natural Resources
Department of Oil Conservation
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

REVIEWED
By Mike Buchanan at 3:35 pm, Jul 16, 2024

Submittal1: ***2023 Supplemental Corrective Action Report*** (Ensolum, April 15, 2024)
Submittal2: ***2022 Supplemental Corrective Action Report*** (Ensolum, March 1, 2024)
Submittal3: ***2021 Supplemental Corrective Action Report*** (Ensolum, November 27, 2023)
RE: Enterprise Field Services, LLC
South Carlsbad Compressor Station – 2009 Condensate Release
Carrasco Road and CR 710, Carlsbad, Eddy Co., NM [32.313436° N, 104.136360° W]
NMOCD Incident ID: nAPP2134932726

Dear Mr. Buchanan:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to submit to the New Mexico Oil Conservation Department (OCD) one electronic copy (online via OCD E-Permitting) of the above-referenced documents (Submittal1, Submittal2, and Submittal3, collectively "Submittals") prepared by Ensolum, LLC (Ensolum). The Submittals are associated with the historical release(s) of natural gas condensate (and/or produced liquids) that was discovered during the decommissioning of on-site aboveground storage tanks (ASTs) in November 2009. Activities detailed in Submittals include monitoring well plugging and abandonment (P&A), groundwater monitoring & sampling activities (GWM&S), and phase-separated hydrocarbon (PSH) recovery (intermittent corrective actions) at the above-referenced location (Site).

Submittal1 summarizes on-site activities that occurred between January 1, 2023 and December 31, 2023 ("reporting period" for Submittal1), Submittal2 summarizes on-site activities conducted between January 1, 2022 and December 31, 2022 ("reporting period" for Submittal2), and Submittal3 summarizes on-site activities conducted between January 1, 2021 and December 31, 2021 ("reporting period" for Submittal3). During each reporting period, on-going GWM&S activities were continued to evaluate the magnitude and stability of PSH dissolved-phase hydrocarbon (DPH) plumes in groundwater.

Based on the groundwater aquifer characterization and sampling results of the nested monitoring wells (MW-12S/D and MW-13S/D) installed in 2021, it appears that impacts to the lower confining unit is the result of monitoring well MW-1 being screened across both groundwater-bearing units (GWBU's). On December 15, 2022, monitoring wells MW-1, MW-7, and MW-10 were P&A to prevent any further migration of impacts into the lower confining unit.

Based on the data contained within the attached Submittals, as of December 6, 2023, constituents of concern (COCs) concentrations remain above applicable New Mexico Water Quality Control Commission Groundwater Quality (NMWQCC) standards in at least 2 on-site monitoring wells (MW-11S and MW-12S). Measurable PSH has been consistently observed in monitor wells MW-2 and MW-13S throughout the reporting periods, with maximum thicknesses of 18.26 feet (MW-2, August 2023) and 1.87 feet (MW-13S, August 2021), respectively.

Based on the results contained in the attached Submittals, Enterprise proposes to: 1) continue utilizing pneumatic recovery systems located at monitoring wells MW-2 and MW-13S to remove PSH; 2) continue quarterly GWM&S to further evaluate PSH and DPH plume stability in groundwater; and, 3) evaluate remedial options to expedite Site closure.

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments, or concerns, or require additional information, please contact Scott Drewry via email (sdrewry@eprod.com) or phone (713-381-5696), or our project consultant Beaux Jennings (bjennings@ensolum.com) with Ensolum.

Sincerely,

Jon E. Fields
Director, Field Environmental

ec: NMOCD, Santa Fe - Michael Buchanan < Michael.Buchanan@emnrd.nm.gov >
NMOCD, Artesia, District 2 - Mike Bratcher < Mike.Bratcher@emnrd.nm.gov >
Ensolum – Marc Gentry < mgentry@ensolum.com >
Ensolum – Beaux Jennings < bjennings@ensolum.com >

ENSOLUM

2023 SUPPLEMENTAL CORRECTIVE ACTION REPORT

Property:

South Carlsbad Compressor Station
Carrasco Road and CR 710
Eddy County, New Mexico
32.313436° N, 104.136360° W
NMCOD Incident ID: nAPP2134932726

April 15, 2024
Ensolum Project No. 03B1226001

Review of the submittal(s): 1, 2 and 3 for years 2021, 2022, 2023 at South Carlsbad Compressor Station: content satisfactory
1. Continue to recover PSH by utilizing pneumatic recovery systems in monitoring wells MW-2 and MW-13S as scheduled.
2. Continue to conduct groundwater monitoring at the site on a quarterly basis, and evaluate PSH and DPH plume stability in groundwater.
3. Modify ST2 AP, if one has been submitted, if alternative adjustment to a remediation plan is necessary.
4. Propose modification to an abatement option if field evaluations warrant.
5. Submit the 2024 annual report to OCD via electronic submission by April 1, 2025.

Prepared for:

Enterprise Field Services LLC
PO Box 4324
Houston, TX 77210
Attention: Mr. Jon E. Fields

Prepared by:

Beaux Jennings
Associate Principal

Heather Holthaus
Senior Project Manager

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Table 3 – Groundwater Analytical Results
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Appendix D: Supporting Documentation

ENSOLUM

2023 SUPPLEMENTAL CORRECTIVE ACTION REPORT

South Carlsbad Compressor Station
Carrasco Road and CR 710
Eddy County, New Mexico
32.313436° N, 104.136360° W
NMOCD Incident ID: nAPP2134932726

Ensolum Project No. 03B1226001

1.0 EXECUTIVE SUMMARY

Ensolum, LLC (Ensolum), has prepared this 2023 Supplemental Corrective Action Report for the Enterprise Field Services LLC (Enterprise) South Carlsbad Compressor Station located at the northwest corner of Carrasco Road and County Road (CR) 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico [SE1/4 of SE1/4 of S12, T23S, R27E], referred to hereinafter as the "Site" or "subject Site." The Site is currently utilized as a natural gas compressor station.

Specific details regarding groundwater monitoring are further explained in the following sections and should be read to fully comprehend the extent of the groundwater monitoring and results. In addition, findings and recommendations are included in this executive summary for convenience; however, the remaining text of the report and associated appendices should also be reviewed for a complete understanding of the report.

- During the February, August and December 2023 groundwater monitoring events, 11 monitoring wells (MW-3 through MW-6, MW-8, MW-9, MW-11S/D, MW-12S/D, and MW-13D) were monitored to evaluate chemicals of concern (COCs) in groundwater.

- During the February, August and December 2023 groundwater monitoring events, measurable phase separated hydrocarbons (PSH) was identified in monitoring wells MW-2 and MW-13S.

- Groundwater samples were collected from monitoring wells not exhibiting the presence of PSH and were analyzed for benzene, toluene, ethylbenzene, and total xylene (BTEX) and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) / diesel range organics (DRO) / motor/lube oil range organics (MRO). It should be noted that the New Mexico Water Quality Control Commission (NMWQCC) has not established a protection limit for TPH GRO/DRO/MRO in groundwater.

- Ensolum compared the BTEX, and TPH GRO/DRO/MRO concentrations or laboratory sample detection limits (SDLs) associated with the groundwater samples collected from the monitoring wells MW-3 through MW-6, MW-8, MW-9, MW-11S/D, MW-12S/D, and MW-13D to the NMWQCC Groundwater Quality Standards, referred to hereinafter as the "NMWQCC Standards".

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- **During the February 2023 sampling event, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-11D, and MW-12S exhibited benzene concentrations of 0.00979 milligrams per liter (mg/L), 0.848 mg/L, 0.0122 mg/L, and 1.47 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L. In addition, the groundwater sample collected from monitoring well MW-11S exhibited a total xylenes concentration of 0.713 mg/L, which exceeds the NMWQCC Standard of 0.62 mg/L.**

- **During the August 2023 sampling event, the groundwater samples collected from monitoring wells MW-9 and MW-11S exhibited benzene concentrations of 0.0079 mg/L and 0.974 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L. In addition, the groundwater sample collected from monitoring well MW-11S exhibited a xylenes concentration of 1.2 mg/L, which exceeds the NMWQCC Standard of 0.62 mg/L.**

- **During the December 2023 sampling event, the groundwater samples collected from monitoring wells MW-11S and MW-12S exhibited benzene concentrations of 0.847 mg/L and 1.57 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the most recent gauging event (December 2023), the monitoring wells MW-2 and MW-13S contained 11.14 feet and 0.18 feet of PSH, respectively.**

- **PSH will continue to be recovered utilizing two pneumatic recovery systems in monitoring wells MW-2 and MW-13S to remove free-standing product from each monitoring well.**

- **Based on the groundwater sampling results of the nested monitoring well MW-11S/D, MW-12S/D and MW-13S/D, it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both groundwater-bearing units (GWBU's).**

- **On December 15, 2022, monitoring wells MW-1, MW-7 and MW-10 were plugged and abandoned (P&A) to prevent any further migration of impacts into the lower confining unit. Based on the sampling data collected from the February, August and December 2023 groundwater monitoring events, the P&A of monitoring wells MW-1, MW-7 and MW-10 have prevented any further migration of impacts into the lower confining unit**

Based on the sampling activities and laboratory analytical results, additional investigation and/or remediation appears warranted at this time.

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2.0 INTRODUCTION

2.1 Site Description & Background

The Enterprise South Carlsbad Compressor Station is located at the northwest corner of Carrasco Road and CR 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico [SE1/4 of SE1/4 of S12, T23S, R27E].

The Site is currently an operational natural gas compressor station, which formerly included a tank battery on the south/southwestern portion of the property. The tank battery system included four 300-barrel aboveground storage tanks (ASTs) within two earthen berm containment systems. The ASTs contained natural gas condensate or produced liquids separated from the natural gas stream processed at the Site. During the decommissioning activities of the former tank battery, Enterprise personnel identified stained soils indicative of a historical leak.

Between September 16 and December 9, 2019, supplemental site investigation activities were conducted by Ensolum to investigate a potential confined GWBU at the Site. As part of the approved scope of work, one nested monitoring well (MW-11 (S/D)) was advanced to a total depth of 40 feet below ground surface (bgs). The monitoring well was advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. The soil samples were collected continuously from soil cuttings in one or two-foot intervals to the terminus depth of the soil boring. Due to the observed confined GWBU at the Site, the nested well was installed to confirm that there is no communication between the upper and lower GWBU and was advanced in the vicinity of the previously installed monitoring well (MW-1).

On June 14 through June 16, 2021, two nested monitoring wells (MW-12 (S/D) and MW-13 (S/D)) were advanced in the vicinity of the previously installed monitoring wells MW-1 and MW-2, respectively, to a total depth of 40 feet bgs to confirm that there was no communication between the upper and lower GWBU. The nested monitoring wells were advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. Up to four soil samples were collected from each monitoring well location based upon the highest photoionization detector (PID) reading, capillary fringe zone, change in lithology, or the terminus of the monitoring well.

Petroleum hydrocarbon odors were detected in the soil cuttings collected from soil boring MW-12 at depths ranging from the surface to 22 feet bgs and from soil boring MW 13 at depths ranging from the surface to 18 feet bgs. PID readings were detected in all soil samples collected from the soil boring MW-12S (7’-8’), MW-12S (20’-21’), MW-12S (21’-22’), and MW-12D (28’-29’). PID readings were detected in all soil samples collected from the soil boring MW-13S (7’-8’), MW-13S (19’-20’), and MW-13D (29’-30’). Soil sample MW-12S (7’-8’) and soil sample MW-13 (7’-8’) exhibited the highest PID readings at 4,527 parts per million (ppm) and 3.4 ppm respectively.

Based on the groundwater sampling results of the nested monitoring well MW-11S/D, MW-12S/D and MW-13S/D, it appears that the lower confining unit has been impacted due to monitoring well MW-1 and MW-10 being screened across both GWBU’s. Monitoring wells MW-1, MW-7 and MW-10 were P&A in December 2022 to prevent any further migration of impacts into the lower confining unit.

Groundwater samples have been collected at the Site since October 2015, with quarterly groundwater sampling events conducted since May 2021.

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A Topographic Map depicting the location of the Site is included as **Figure 1**, and a Site Vicinity Map is included as **Figure 2** in **Appendix A**.

2.2 Project Objective

The objective of the sampling activities was to evaluate the presence, magnitude, and extent of COCs in the groundwater and to compare the results to the NMWQCC Standards.

The objectives of Ensolum's scope of services were to:

1) Collect groundwater samples from the monitoring wells (MW-3 through MW-6, MW-8, MW-9, MW-11S/D, MW-12S/D, and MW-13D) installed at the Site;
2) Summarize findings of the groundwater samples collected on-Site;
3) Describe the nature of the groundwater gradient on-Site; and
4) Summarize the findings of the groundwater sampling events and recommendations concerning further action, if necessary.

2.3 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

2.4 Additional Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

2.5 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Ensolum's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

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3.0 SITE CHARACTERIZATION

3.1 Geology & Hydrogeology

The Site is located on the western side of the Pecos River Valley. The valley contains the only occurrence of the Gatuna formation of Pleistocene and Tertiary age. In the area of Carlsbad and Loving, New Mexico, the Gatuna formation is as much as 100 meters above the Pecos River floodplain on the east side of the river and only about 30 meters on the west side. Its base is on Permian or Triassic rocks when exposed, but for the most part is buried by floodplain, terrace, caliche or aeolian deposits (Kelley, 1980). In general, the Gatuna formation consists of moderate reddish-orange, friable sandstone, siltstone, and conglomerate, but may locally include gypsum, gray shale, and claystone.

The Gatuna formation may be up to 100 feet thick locally (Vine, 1963). The overburden of the formation at the Site appears to be floodplain deposits ranging in thickness up to eight (8) feet thick. The regional groundwater gradient in the area is to the east toward the Pecos River. Based on soil borings and monitoring wells installed at the Site, it is apparent that the Gatuna formation is saturated and appears to be unconfined. However, recent data suggests that confining or semi confining conditions may also be present. The local hydraulic gradient appears to be dependent on local precipitation events controlling the hydraulic gradient at the Site. The depth to groundwater ranges from approximately six to nine feet bgs at an approximate elevation of 3,057 feet above mean sea level (AMSL).

4.0 RESPONSE ACTIONS

4.1 Product Recovery

On August 4, 2021, Ensolum staged a 200-gallon poly tank with a solar battery operated PSH recovery pump for monitoring well MW-13S between monitoring well MW-2 and MW-13S for product recovery from both monitoring wells. On September 30, 2021, Ensolum installed the PSH recover pump into monitoring well MW-13S and began product recovery. Monitoring well MW-2 was subsequently tied into the 200-gallon poly tank recovery system.

In 2023, monthly pumping operation and maintenance (O&M) was performed on monitoring well MW-2 and MW-13S.

Enterprise personnel periodically emptied the 200-gallon poly tank utilizing a vacuum truck on an as needed basis. The recovered PSH is taken off-Site to a state approved disposal facility.

4.2 Waste Management

Recovered groundwater and PSH are temporarily stored on-Site in a 200-gallon poly staged next to monitoring wells MW-13(S/D) and MW-2. Enterprise personnel utilized a vac-truck to transfer PSH/water stored in the 200-gallon poly tank for proper disposal. Purge water from quarterly groundwater monitoring activities is stored in the 200-gallon poly prior to disposal.

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5.0 SITE INVESTIGATION

5.1 Groundwater Sampling Program

Ensolum's groundwater sampling program included the collection of 11 samples from the monitoring wells installed at the Site (MW-3 through MW-6, MW-8, MW-9, MW-11S/D, MW-12S/D, and MW-13D). One groundwater sample was collected from each monitoring well during each of the sampling events. Monitoring wells that exhibited measurable PSH at the time of groundwater monitoring were not sampled. Groundwater samples were collected utilizing low-flow minimal drawdown techniques. The monitoring wells were purged until groundwater was consistent in color, clarity, pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature and conductivity. The groundwater sample analytical results are included in **Table 3** of **Appendix B**. The groundwater quality results are included in **Table 5** of **Appendix B**.

6.0 LABORATORY ANALYTICAL METHODS

6.1 Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells were analyzed for TPH GRO/DRO/MRO utilizing Environmental Protection Agency (EPA) Method SW-846 #8015M and BTEX utilizing EPA Method SW-846 #8021B. Laboratory results are summarized in **Table 3** of **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

6.2 Quality Assurance/Quality Control (QA/QC)

Sampling and analytical techniques have been identified in the text above and conform with the references identified in Subsection B of 20.6.2.3107 New Mexico Administrative Code (NMAC) and with 20.6.4.14 NMAC of the water quality standards for interstate and intrastate surface waters in New Mexico.

Groundwater samples were collected in laboratory prepared glassware and placed on ice in a cooler, which was secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Eurofins Midland laboratories in Midland, Texas for normal turn-around results.

Eurofins performed the analyses of samples under an adequate and documented quality assurance program to meet the project and data quality objectives. The laboratory's quality assurance program is generally consistent with the quality standards outlined in the National Environmental Laboratory Accreditation Program, as amended. In addition, the data generated by Eurofins meets the interlaboratory performance standards for the selected analytical method and the performance standards are sufficient to meet the bias, precision, sensitivity, representativeness, and completeness, as specified in the project data quality objectives.

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7.0 DATA EVALUATION

7.1 Monitoring Well Gauging

The on-Site monitoring wells were surveyed in for top-of-casing (TOC) AMSL elevations. Groundwater measurements were collected utilizing a water level meter and/or interface probe capable of detecting the presence of water and/or PSH up to an accuracy of 0.01 feet. Groundwater measurements were collected during gauging events performed on February 15, August 17, and December 6, 2023.

PSH was observed in monitoring wells MW-2 and MW-13S during the most recent gauging event, December 6, 2023, at thicknesses of 11.14 feet and 0.18 feet of PSH, respectively. Groundwater/PSH measurements collected during the gauging events are presented with TOC elevations and corrected groundwater elevations in **Table 4** of **Appendix B.** Groundwater gradient maps for the gauging events are included as **Figure 4A** through **Figure 4C** of **Appendix A.**

7.2 Monitoring Well Groundwater Samples

Prior to sample collection, Ensolum gauged the depth to groundwater/PSH utilizing a water level indicator and/or interface probe capable of detecting water and/or PSH up to 0.01 feet. During each of the gauging events, measurable PSH was observed in monitoring wells MW-2 and MW-13S.

Ensolum compared the BTEX and TPH GRO/DRO/MRO concentrations or laboratory SDLs associated with the groundwater samples collected to the New Mexico Water Quality Control Commission Groundwater Quality Standards, referred to hereinafter as the "NMWQCC Standards". The results of the groundwater sample analysis along with the respective NMWQCC Standards are provided in **Table 3** of **Appendix B**.

It should be noted that the NMWQCC has not established a protection limit for TPH GRO/DRO/MRO in groundwater. A groundwater sample was not collected from monitoring wells MW-2 or MW-13S during any of the sampling events due to the presence of PSH. Maps indicating the approximate location of groundwater COCs in relation to pertinent land features and on-Site improvements for the February, August and December 2023 sampling events are included as **Figure 5A** through **Figure 5C** in **Appendix A**.

Total Petroleum Hydrocarbons

During each of the sampling events, the groundwater samples collected from monitoring wells MW-3 through MW-6, MW-8, MW-9, MW-11D, and MW-12D did not exhibit TPH GRO/DRO/MRO concentrations above the laboratory SDLs. The groundwater sample collected from monitoring well MW-13D during the August and December 2023 event did not exhibit TPH GRO/DRO/MRO concentrations above the laboratory SDLs.

Based on the laboratory analytical results, the groundwater samples collected from monitoring wells MW-11S, MW-12S and MW-13D exhibited TPH GRO/DRO/MRO concentrations ranging from 7.02 mg/L to 60.5 mg/L.

The NMWQCC has not established a protection limit for TPH GRO/DRO/MRO in groundwater. However, these compounds can be evaluated to assess the presence of dissolve-phase hydrocarbons in groundwater.

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Benzene, Toluene, Ethylbenzene and Xylenes

During each of the sampling events, the groundwater samples collected from monitoring wells MW-3 through MW-6, MW-8, MW-12D, and MW-13D did not exhibit BTEX concentrations above the laboratory SDLs and/or the applicable NMWQCC Standards. The groundwater sample collected from monitoring well MW-9 during the December 2023 sampling event did not exhibit BTEX concentrations above the laboratory SDLs, which are below the applicable NMWQCC Standards. The groundwater samples collected from monitoring well MW-11D during the August and December 2023 sampling events did not exhibit BTEX concentrations above the laboratory SDLs and/or the applicable NMWQCC Standards. The groundwater sample collected from monitoring well MW-12S during the August 2023 sampling event did not exhibit BTEX concentrations above the laboratory SDLs and/or the applicable NMWQCC Standards.

During the most recent sampling event (December 2023), the groundwater samples collected from monitoring wells MW-11S, and MW-12S exhibited benzene concentrations of 0.847 mg/L and 1.57 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.

During the most recent gauging event (December 2023), monitoring wells MW-2 and MW-13S contained 11.14 feet 0.18 feet of PSH, respectively.

The next Site-wide groundwater gauging and sampling event is scheduled for February 2024.

The laboratory analytical results for groundwater are summarized in **Table 3** of **Appendix B**. Groundwater COC Concentration Maps for each of the sampling events are included in **Appendix A** as **Figures 5A** through **5C**.

8.0 FINDINGS AND RECOMMENDATIONS

Ensolum has prepared this *2023 Supplemental Corrective Action Report* for the South Carlsbad Compressor Station, located at the northwest corner of Carrasco Road and CR 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico, and covers response actions from January through December 2023. The objective of the groundwater sample collection was to further evaluate the presence, magnitude, and extent of BTEX and TPH GRO/DRO/MRO in on-site groundwater as a result of historical releases.

- **During the February 2023 sampling event, the groundwater samples collected from monitoring wells MW-9, MW-11S, MW-11D, and MW-12S exhibited benzene concentrations of 0.00979 mg/L, 0.848 mg/L, 0.0122 mg/L, and 1.47 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L. In addition, the groundwater sample collected from monitoring well MW-11S exhibited a total xylenes concentration of 0.713 mg/L, which exceeds the NMWQCC Standard of 0.62 mg/L.**

- **During the August 2023 sampling event, the groundwater samples collected from monitoring wells MW-9 and MW-11S exhibited benzene concentrations of 0.0079 mg/L and 0.974 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L. In addition, the groundwater sample collected from monitoring well MW-11S exhibited a total xylenes concentration of 1.2 mg/L, which exceeds the NMWQCC Standard of 0.62 mg/L.**

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- **During the December 2023 sampling event, the groundwater samples collected from monitoring wells MW-11S and MW-12S exhibited benzene concentrations of 0.847 mg/L and 1.57 mg/L respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the most recent gauging event (December 2023), the monitoring wells MW-2 and MW-13S contained 11.14 feet and 0.18 feet of PSH, respectively.**

- **PSH will continue to be recovered utilizing two pneumatic recovery systems in monitoring wells MW-2 and MW-13S to remove free-standing product from each monitoring well.**

- **Based on the groundwater sampling results of the nested monitoring well MW-11S/D, MW-12S/D and MW-13S/D, it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both GWBU's.**

- **On December 15, 2022, monitoring wells MW-1, MW-7 and MW-10 were P&A to prevent any further migration of impacts into the lower confining unit. Based on the sampling data collected from the February, August and December 2023 groundwater monitoring events, the P&A of monitoring wells MW-1, MW-7 and MW-10 have prevented any further migration of impacts into the lower confining unit**

Based on the on-Site assessment activities and laboratory analytical results, additional investigation and/or remediation appears warranted at this time.

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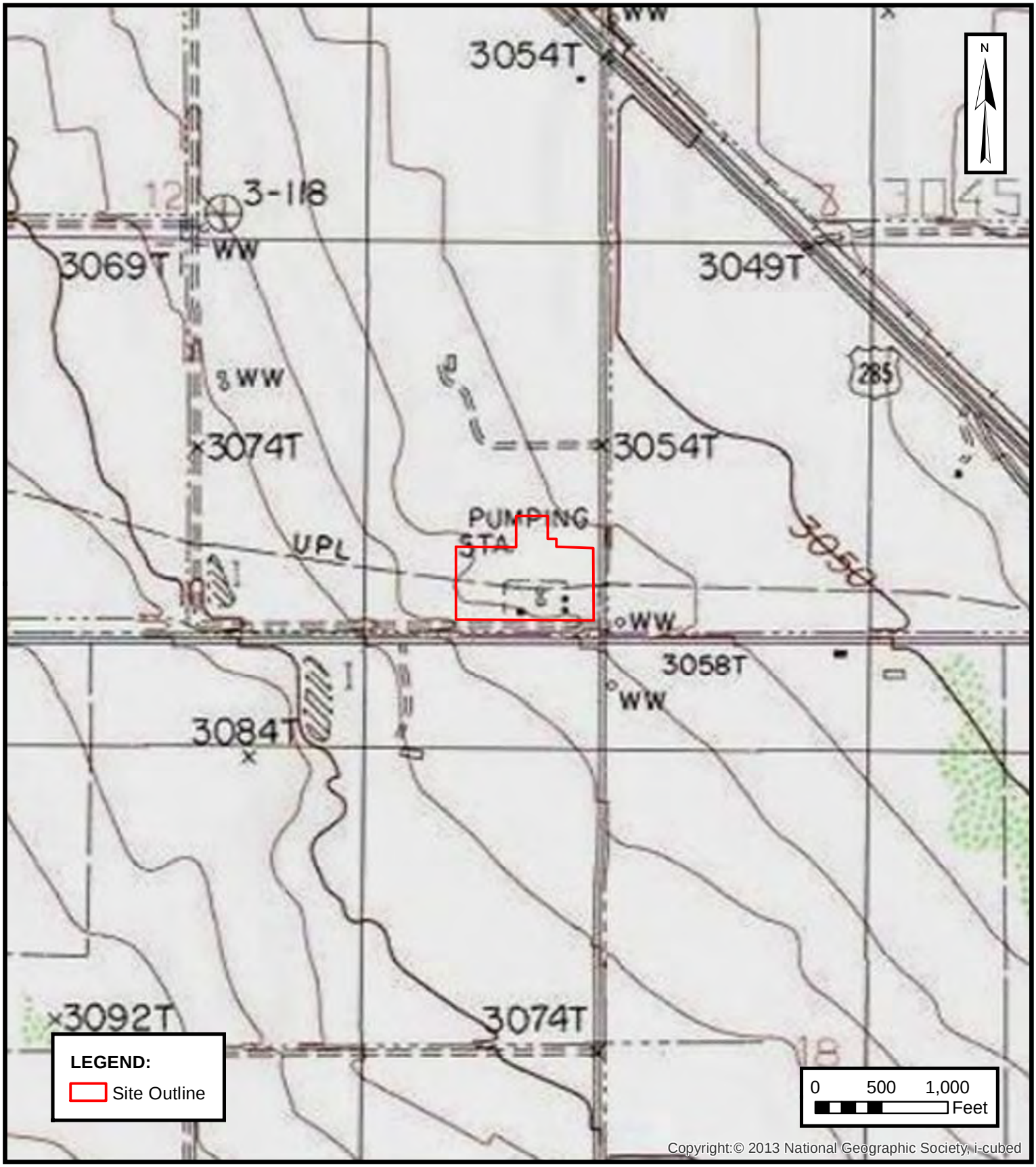
APPENDIX A

Figures



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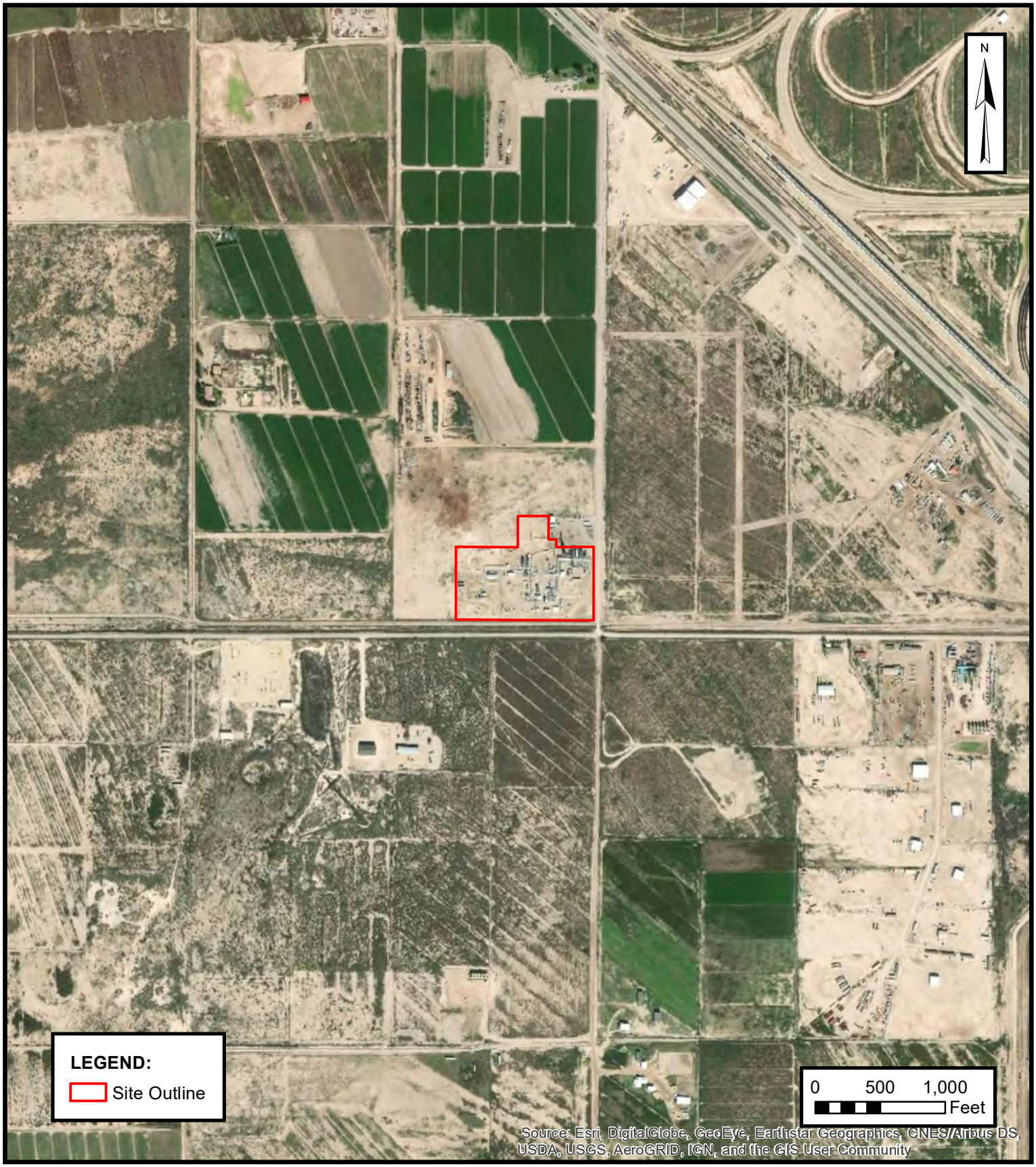
TOPOGRAPHIC MAP
ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

PROJECT NUMBER: 03B1226001

FIGURE
1



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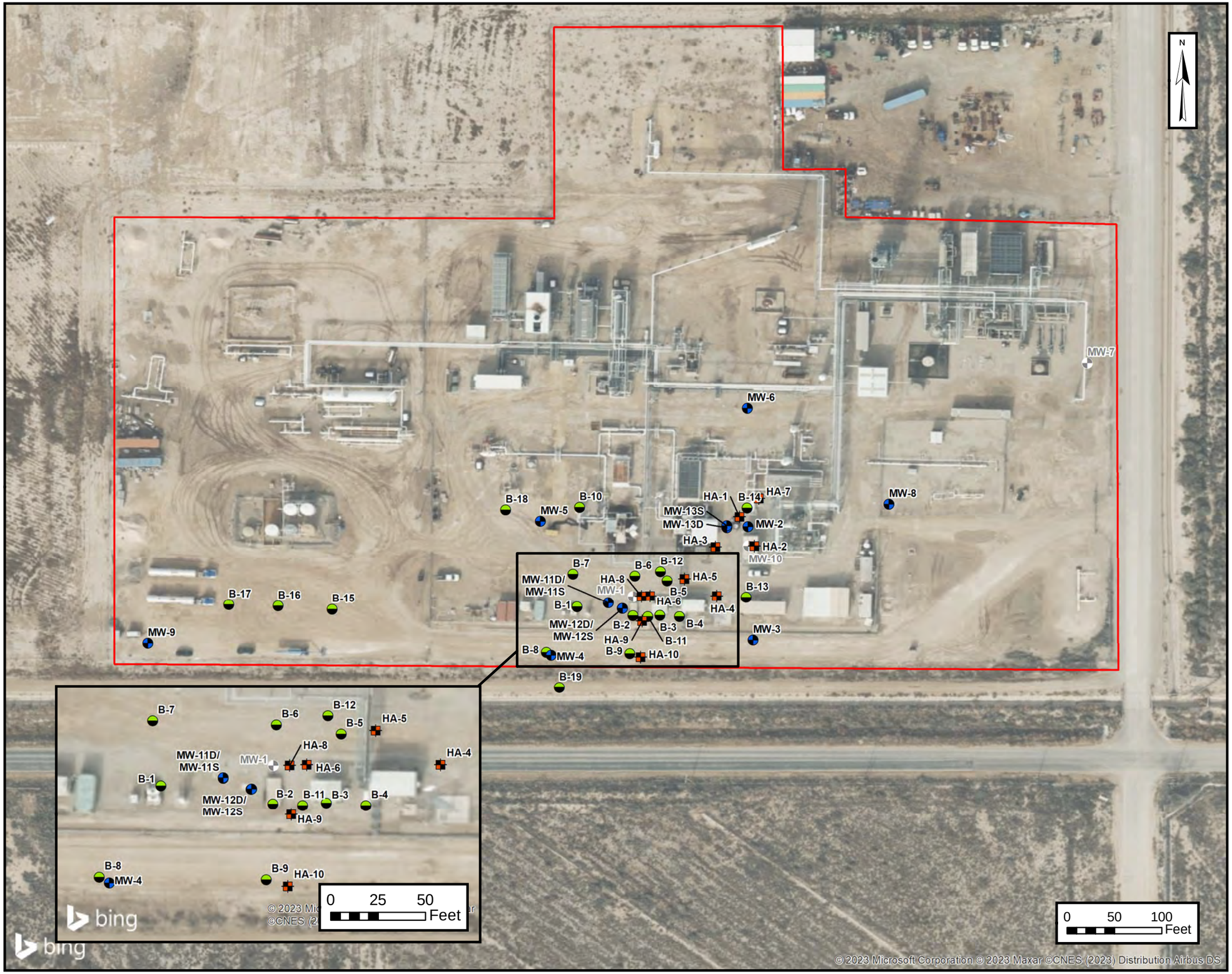
SITE VICINITY MAP
ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

PROJECT NUMBER: 03B1226001

FIGURE
2



LEGEND:

- Site Outline
- Monitoring Well Location
- Plugged & Abandoned Monitor Well Location
- Soil Boring Location
- Hand Auger Location

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SITE MAP

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32313436° N, 104.136360° W

FIGURE
3

Ensolum Project No : 03B1226001

LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.5')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in blue and listed in feet. Data from MW-13S were not used to generate contour lines.

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GROUNDWATER GRADIENT MAP (FEBRUARY 2023)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4A

Ensolum Project No : 03B1226001

LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.5')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in **blue** and listed in feet.
Data from MW-13S were not used to generate contour lines.

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GROUNDWATER GRADIENT MAP (AUGUST 2023)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4B

Ensolum Project No : 03B1226001

LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.5')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow

NOTE:
All groundwater elevations are shown in **blue** and listed in feet.
Data from MW-13S were not used to generate contour lines.

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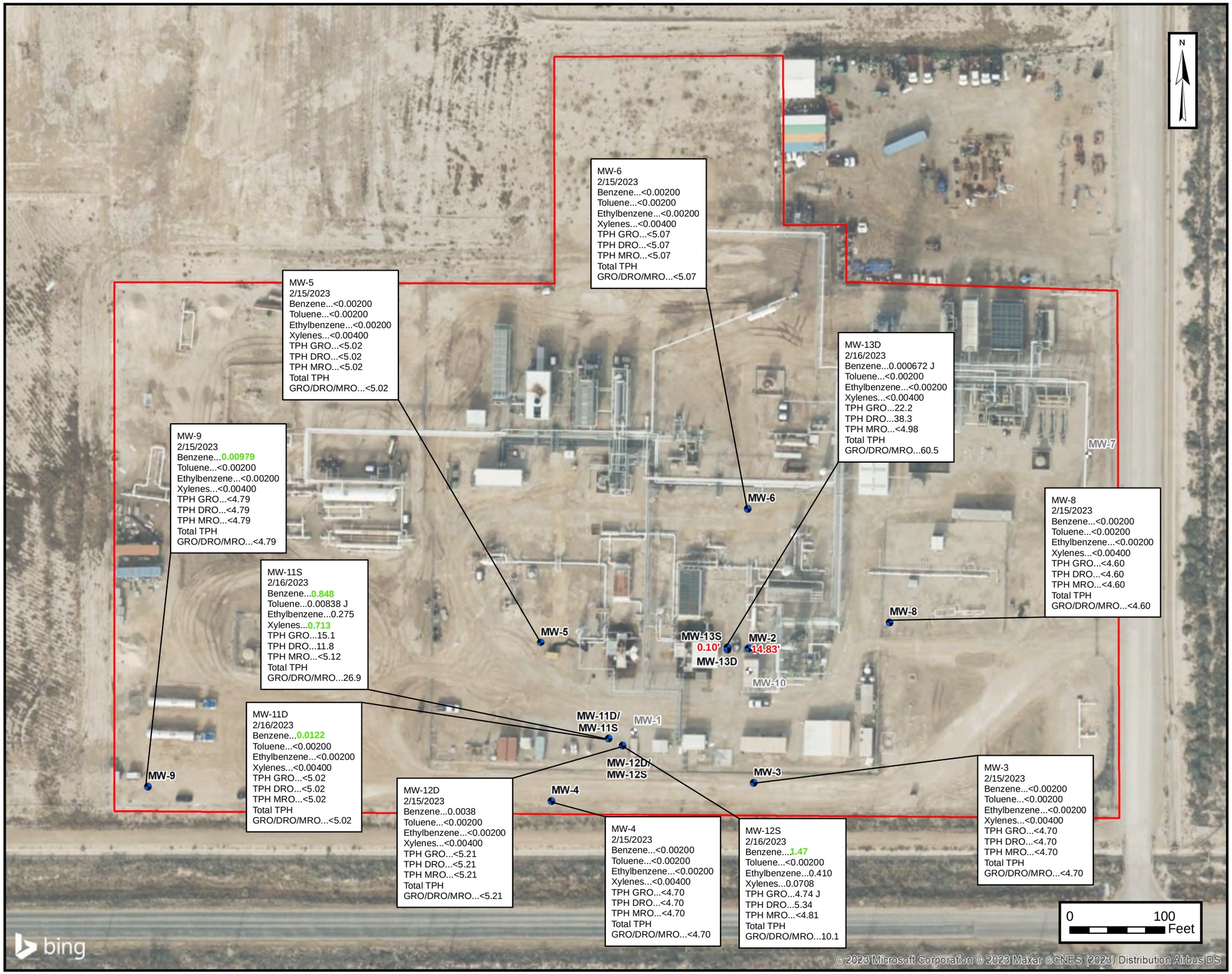
GROUNDWATER GRADIENT MAP (DECEMBER 2023)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
4C

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Plugged and Abandoned Monitoring Well Location

NOTE:
PSH thicknesses in **red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **green** exceed New Mexico Water Quality Control Commission Groundwater Quality Standards.

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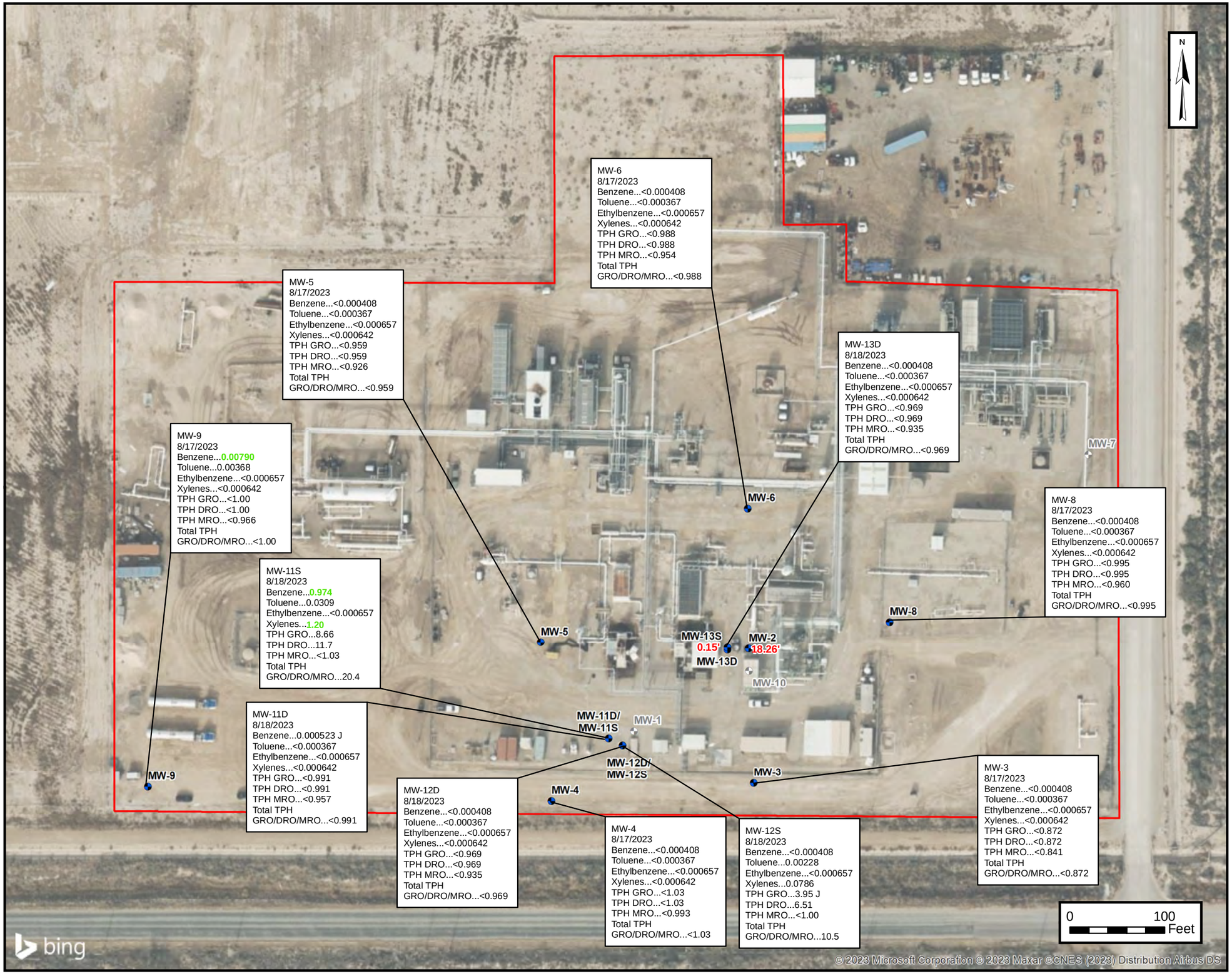
COC CONCENTRATION MAP (FEBRUARY 2023)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
5A

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Plugged and Abandoned Monitoring Well Location

NOTE:
PSH thicknesses in **red** are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **green** exceed New MexicoWater Quality Control Commission Groundwater Quality Standards.

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Environmental, Engineering and Hydrogeologic Consultants

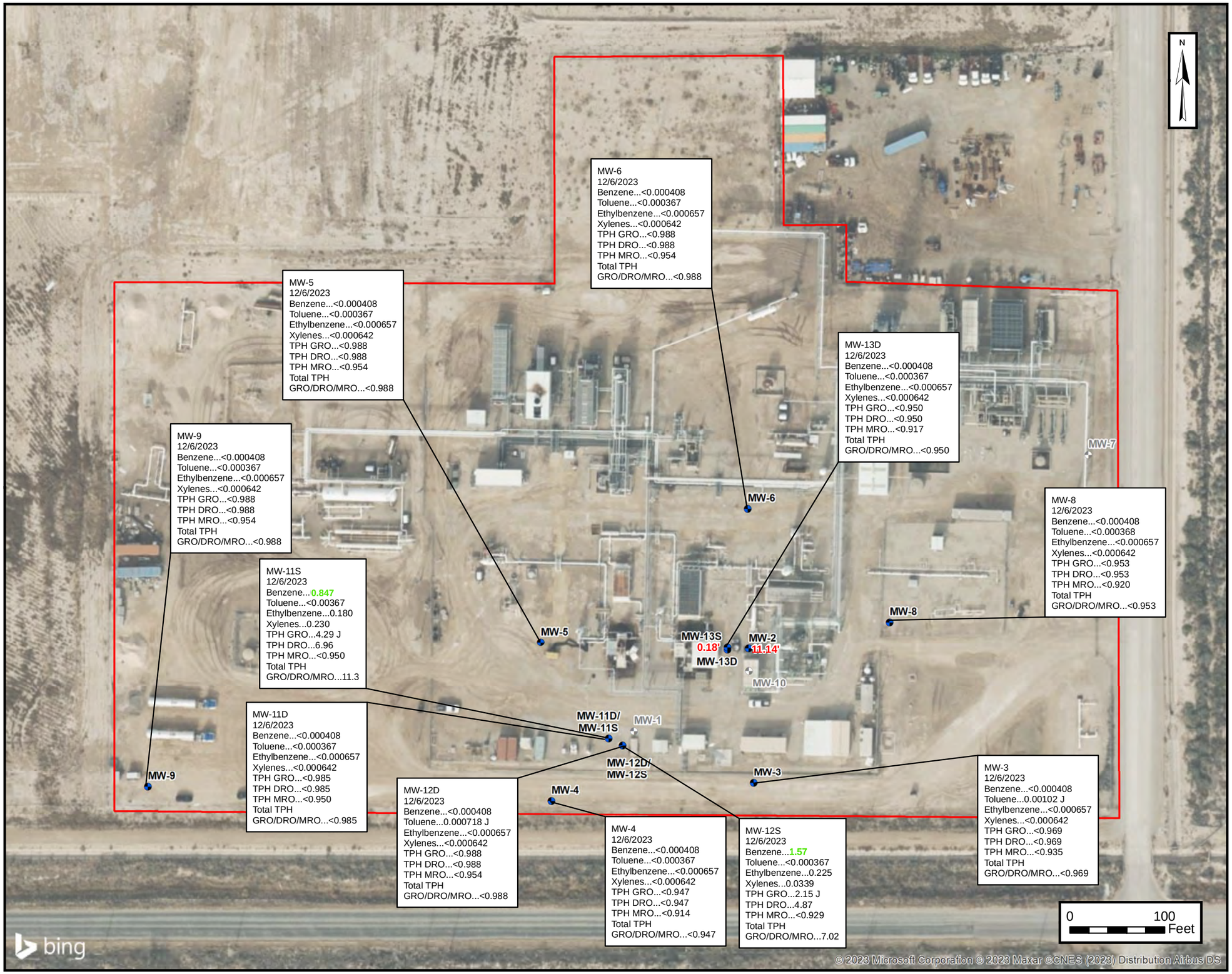
COC CONCENTRATION MAP (AUGUST 2023)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
5B

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Plugged and Abandoned Monitoring Well Location

NOTE:
PSH thicknesses in red are listed in feet.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in Green exceed New MexicoWater Quality Control Commission Groundwater Quality Standards.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

COC CONCENTRATION MAP (DECEMBER 2023)

ENTERPRISE FIELD SERVICES LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE
5C

Ensolum Project No : 03B1226001

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APPENDIX B

Tables

ENSOLUM

TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	TPH GRO/DRO/MRO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			**600**	**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**
SOIL BORING ANALYTICAL RESULTS												
B-1 (7-8)	11/5/2009	7 - 8	NA	**0.34**	**7.1**	**1.5**	**31**	**39.94**	**270**	**710**	NA	**980**
B-1 (19-20)	11/5/2009	19 - 20	NA	<0.0021	<0.0022	<0.0024	**0.036**	**0.0427**	**0.15**	**24**	NA	**24.15**
B-2	2/25/2011	Soil Samples Not Collected										
B-3 (6-7)	2/25/2011	6 - 7	NA	**0.0091**	**56.8**	**13.1**	**224**	**293.9**	**2,070**	**4,830**	NA	**6,900**
B-4 (3-4)	2/25/2011	3 - 4	NA	<0.00131	<0.00131	<0.00131	<0.00394	<0.00787	<0.0657	**4.17**	NA	**4.2357**
B-4 (5-6)	2/25/2011	5 - 6	NA	<0.00133	**0.00316**	<0.00133	**0.0198**	**0.02562**	**3.75**	**368**	NA	**371.75**
B-5 (4-5)	2/25/2011	4 - 5	NA	<0.00125	**7.62**	**0.00991**	**29.4**	**37.03116**	**1,540**	**2,520**	NA	**4,060**
B-6 (4-5)	2/25/2011	4 - 5	NA	<0.00122	**0.00847**	<0.00122	**0.0147**	**0.02561**	**1.12**	**25.5**	NA	**26.62**
B-6 (7-8)	2/25/2011	7 - 8	NA	<0.00128	**7.17**	**4.15**	**46.3**	**57.621**	**1,930**	**2,210**	NA	**4,140**
B-7 (2-3)	2/25/2011	2 - 3	NA	<0.00122	<0.00122	<0.00122	<0.00366	<0.04026	<0.0612	**7.98**	NA	<8.0412
B-7 (5-6)	2/25/2011	5 - 6	NA	<0.0012	**2.23**	**2.28**	**10.5**	**15.0112**	**960**	**1,480**	NA	**2,440**
B-8 (4-5)	2/25/2011	4 - 5	NA	<0.00135	**6.93**	**2.93**	**17.8**	**27.66135**	**2,100**	**1,920**	NA	**4,020**
B-8 (7-8)	2/25/2011	7 - 8	NA	<0.00119	<0.00119	<0.00119	<0.00358	<0.00715	<0.0597	**199**	NA	**199.1**
B-9 (4-5)	2/25/2011	4 - 5	NA	<0.0012	**0.00416**	<0.0012	<0.00359	**0.01015**	<0.0598	**4.5**	NA	**4.560**
B-9 (7-8)	2/25/2011	7 - 8	NA	<0.00186	<0.00186	<0.00186	<0.00558	<0.01116	<0.0929	**8.98**	NA	**9.073**
B-10 (8-9)	1/14/2014	8 - 9	NA	**0.0076 J**	**0.029 J**	<0.0033	**0.15**	**0.1899**	**33**	**59**	NA	**92**
B-10 (14-15)	1/14/2014	14 - 15	NA	<0.0030	**0.026 J**	<0.0034	**0.037 J**	**0.0694**	**6.6**	<3.9	NA	**10.5**
B-10 (24-25)	1/14/2014	24 - 25	NA	<0.0029	**0.025 J**	<0.0033	<0.011	**0.0422**	<2.8	<3.9	NA	<6.7
B-11 (10-11)	1/15/2014	10 - 11	NA	**0.14 J**	**1.3**	**1.3**	**11**	**13.74**	**380**	**1,000**	NA	**1,380**
B-11 (20-21)	1/15/2014	20 - 21	NA	**0.021 J**	**0.088**	<0.0032	**1.3**	**1.4122**	**110**	**58**	NA	**168**
B-11 (29-30)	1/15/2014	29 - 30	NA	**0.0071 J**	**0.045 J**	**0.043 J**	**0.18**	**0.2751**	**18**	**8.3**	NA	**26.3**
B-12 (13-14)	1/15/2014	13 - 14	NA	**0.49 J**	<0.060	**2.4**	**2.2**	**5.15**	**350**	**820**	NA	**1,170**
B-12 (15-16)	1/15/2014	15 - 16	NA	**0.096**	**0.052**	**0.91**	**0.96**	**2.018**	**180**	**45**	NA	**225**
B-12 (24-25)	1/15/2014	24 - 25	NA	**0.01 J**	**0.016 J**	**0.047 J**	**0.087 J**	**0.16**	**18**	**4.2**	NA	**22.2**
B-13 (14-15)	1/14/2014	14 - 15	NA	<0.0030	**0.025 J**	<0.0034	<0.011	**0.0424**	<3.0	<3.9	NA	<6.9
B-13 (24-25)	1/14/2014	24 - 25	NA	<0.0030	**0.021 J**	<0.0034	<0.011	**0.0384**	<2.9	<3.9	NA	<6.8
B-14 (14-15)	1/15/2014	14 - 15	NA	<0.0029	**0.024 J**	<0.0033	<0.011	**0.0313**	<2.9	**29**	NA	**31.9**
B-14 (24-25)	1/15/2014	24 - 25	NA	<0.0031	**0.024 J**	<0.0035	<0.011	**0.0416**	<3.0	<3.9	NA	<6.9
B-15 (3-4)	1/14/2014	3 - 4	**8.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-16 (3-4)	1/14/2014	3 - 4	**380**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-17 (3-4)	1/14/2014	3 - 4	**7.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-18 (12-13)	1/15/2014	12 - 13	NA	<0.0029	**0.025 J**	<0.0033	<0.011	**0.0323**	<2.9	<4.0	NA	<6.9
B-18 (24-25)	1/15/2014	24 - 25	NA	<0.0029	**0.023 J**	<0.0033	<0.011	**0.0402**	<2.9	<3.9	NA	<6.8
B-19 (24-26)	9/16/2015	24 - 26	NA	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<15.0	<15.0	NA	<15.0
B-19 (30-32)	9/16/2015	30 - 32	NA	<0.001000	<0.00200	<0.001000	<0.001000	<0.001000	<15.0	<15.0	NA	<15.0

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TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	TPH GRO/DRO/MRO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			**600**	**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**
MONITORING WELL ANALYTICAL RESULTS												
MW-1	12/18/2014	12 - 14	NA	**0.27**	<0.25	**3.9**	**23**	**27.42**	**950**	**1,600**	NA	**2,550**
		30 - 32	NA	**0.087**	**0.054**	**1.6**	**8.9**	**10.64**	**440**	**470**	NA	**910**
MW-2	12/17/2014	16 - 18	NA	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	**2,400**	NA	**2,405**
		26 - 28	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	**510**	NA	**514.8**
MW-3	12/17/2014	10 - 12	NA	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<9.9	NA	<9.9
		26 - 28	NA	<0.047	<0.047	<0.047	<0.093	<0.234	<4.7	<9.9	NA	<9.9
MW-4	12/17/2014	7 - 9	NA	<0.048	<0.048	<0.048	<0.097	<0.241	**160**	**550**	NA	**710**
		23 - 25	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	**13.0**	NA	**13.0**
MW-5	12/17/2014	7 - 8	NA	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	**39.0**	NA	**39.0**
		30 - 32	NA	<0.046	<0.046	<0.046	<0.093	<0.231	<4.6	**13.0**	NA	**17.6**
MW-6	9/15/2015	24 - 26	NA	<0.000996	<0.00199	<0.000996	<0.000996	<0.000996	<15.0	<15.0	NA	<15.0
		32 - 34	NA	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<14.9	<14.9	NA	<14.9
MW-7	9/16/2015	20 - 22	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
		30 - 32	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
MW-8	9/16/2015	26 - 28	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<14.9	<14.9	NA	<14.9
		34 - 35	NA	<0.001010	<0.00201	<0.001010	<0.001010	<0.001010	<15.0	<15.0	NA	<15.0
MW-9	9/17/2015	22 - 24	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
		34 - 35	NA	<0.001010	<0.00202	<0.001010	<0.001010	<0.001010	<15.0	<15.0	NA	<15.0
MW-10	9/16/2015	20 - 22	NA	<0.001010	<0.00202	<0.001010	<0.001010	<0.001010	<14.3	<14.3	NA	<14.3
		34 - 35	NA	<0.001000	<0.00200	<0.001000	<0.001000	<0.001000	<15.0	<15.0	NA	<15.0
MW-11S	11/12/2019	7 - 8	NA	**3.19**	**62.7**	**22.4**	**205**	**293**	**5,840**	**4,780**	**131**	**10,800**
		25 - 26	NA	**0.00371**	<0.00198	<0.00198	<0.00198	**0.00371**	<15.0	<15.0	<15.0	<15.0
MW-11D	11/12/2019	31	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0
MW-12S	6/14/2021	7 - 8	NA	**0.00473**	**0.00134 J**	**0.00881**	**0.0234**	**0.0383**	**39.8 J**	**554**	**439**	**1,030**
		20 - 21	NA	**0.0178**	**0.0539**	**0.155**	**0.0756**	**0.0971**	**41.1 J**	**945**	**549**	**1,540**
		21 - 22	NA	**0.0173**	**0.000475 J**	**0.00237**	**0.0324**	**0.0525**	**228**	**3,840**	**270**	**4,340**
MW-12D	6/15/2021	28 - 29	NA	**0.000425 J**	**0.00101 J**	<0.000563	**0.00141 J**	**0.00285 J**	**144**	**2,130**	**172**	**2,450**
MW-13S	6/15/2021	7 - 8	NA	<0.000385	<0.000456	**0.00119 J**	<0.00101	**0.00119 J**	**190**	**2,790**	**223**	**3,200**
		19 - 20	NA	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	**31.9 J**	<15.0	**31.9 J**
MW-13D	6/16/2021	29 - 30	NA	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0

ENSOLUM

TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	TPH GRO/DRO/MRO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			**600**	**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**
HAND AUGER ANALYTICAL RESULTS												
HA-1	04/09/2018	8 - 8.5	NA	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	**30.1 J**	**8,280**	**4,930**	**13,200**
HA-1	04/09/2018	9.25 - 9.5	NA	<0.00248	<0.00248	<0.00248	<0.00248	<0.00248	**29.9 J**	**6,960**	**5,840**	**12,800**
HA-2	04/10/2018	4-5	NA	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<9.95	<9.95	<9.95	<9.95
HA-2	04/10/2018	5 - 5.5	NA	<0.000497	<0.000497	<0.000497	<0.000497	<0.000497	<9.95	<9.95	<9.95	<9.95
HA-3	04/10/2018	4 - 5	NA	<0.0500	<0.0500	<0.0500	**0.127**	**0.127**	**30.6 J**	**31,600**	**14,200**	**45,800**
HA-3	04/10/2018	5 - 5.25	NA	<0.0125	**0.0518**	**0.0533**	**0.218**	**0.323**	**35.1 J**	**28,600**	**13,700**	**42,300**
HA-4	04/10/2018	1 - 2	NA	<0.000501	<0.000501	<0.000501	<0.000501	<0.000501	<9.92	**24.7 J**	<9.92	**24.7 J**
HA-4	04/10/2018	6 - 6.5	NA	<0.000502	<0.000502	<0.000502	<0.000502	<0.000502	<10.0	**15.8 J**	<10.0	**15.8 J**
HA-5	04/10/2018	5 - 6	NA	<0.0125	<0.0125	<0.0125	<0.0125	<0.0125	**160**	**757**	**28.6 J**	**946**
HA-5	04/10/2018	6 - 7	NA	<0.000501	<0.000501	**0.00187**	<0.000501	**0.00187**	**252**	**648**	**24.2 J**	**924**
HA-6	04/10/2018	6 - 6.25	NA	<0.0500	<0.0500	**0.508**	**0.498**	**1.01**	**843**	**935**	**37.9 J**	**1,820**
HA-6	04/10/2018	6.25 - 6.5	NA	<0.0124	<0.0124	**0.764**	**0.989**	**1.75**	**829**	**1,240**	**45.2 J**	**2,110**
HA-7	04/10/2018	5 - 6	NA	<0.000501	<0.000501	<0.000501	<0.000501	<0.000501	<9.90	<9.90	<9.90	<9.90
HA-7	04/10/2018	7 - 8	NA	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<9.90	<9.90	<9.90	<9.90
HA-8	04/10/2018	2 - 3	NA	<0.0498	**0.0996 J**	**7.94**	**79.2**	**87.2**	**3,150**	**3,050**	**108**	**6,310**
HA-8	04/10/2018	5 - 5.5	NA	<0.0496	**0.0575 J**	**5.37**	**55.9**	**61.3**	**2,400**	**2,450**	**88.5**	**4,940**
HA-9	04/11/2018	4 - 5	NA	<0.0501	**0.0862 J**	**6.59**	**27.5**	**34.1**	**4,480**	**8,150**	**275**	**12,900**
HA-9	04/11/2018	5 - 6	NA	<0.0499	**0.0699 J**	**5.80**	**64.1**	**70.0**	**2,800**	**3,980**	**198**	**6,980**
HA-10	04/11/2018	2 - 3	NA	<0.000499	<0.000499	<0.000499	<0.000499	<0.000499	<10.0	<10.0	<10.0	<10.0
HA-10	04/11/2018	3 - 4.5	NA	<0.000499	<0.000499	<0.000499	<0.000499	<0.000499	<9.99	<9.99	<9.99	<9.99

ENSOLUM

TABLE 1
SOIL ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	TPH GRO/DRO/MRO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			**600**	**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**
EXCAVATION CONFIRMATION ANALYTICAL RESULTS												
EC-1	1/31/2011	8 - 9	NA	<0.0125	**13**	**9.23**	**103**	**<125.2425**	**903**	**6,040**	NA	**6,943**
EC-1(R)	2/24/2011	8 - 9	NA	<0.0123	**13.1**	**2.62**	**50.1**	**65.8323**	**569**	**1,250**	NA	**1,819**
EC-2	1/31/2011	8 - 9	NA	<0.00611	**0.214**	**0.24**	**16.8**	**17.26011**	**1.34**	**4,530**	NA	**4,531**
EC-2(R)	2/24/2011	8 - 9	NA	<0.0127	**7.98**	**0.836**	**25.4**	**34.2287**	**6,980**	**674**	NA	**7,654**
EC-2(R)	2/24/2011	8 - 9	NA	NA	NA	NA	NA	NA	**835**	**2,050**	NA	**2,885**
EC-3	1/31/2011	8 - 9	NA	<0.00128	**0.00713**	<0.00128	**59.4**	**59.40969**	**1,260**	**5,200**	NA	**6,460**
EC-3(R)A	2/24/2011	8 - 9	NA	<0.0126	**4.22**	**1.26**	**12.3**	**17.7926**	**515**	**640**	NA	**1,155**
EC-3(R)B	2/24/2011	8 - 9	NA	<0.00135	**0.00204**	<0.00135	<0.00406	**0.0088**	**0.545**	**14.9**	NA	**15.445**
EC-4	1/31/2011	8 - 9	NA	<0.00126	<0.00126	<0.00126	<0.00379	<0.00757	**0.722**	**44**	NA	**44.722**
EC-5	1/31/2011	8 - 9	NA	<0.0013	**0.0156**	**0.04**	**0.123**	**0.1799**	**0.836**	**692**	NA	**692.84**

Concentrations in **bold** and shaded yellow exceed the applicable OCD Remediation Action Level.

- indicates the area was over-excavated and removed.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

* Totals include reported concentration and/or assume concentrations up to the SDL.

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

mg/kg - milligrams per kilogram

bgs - below ground surface

NA - Not Analyzed

NE - Not Established

ENSOLUM

TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			500	0.2	NE	NE	NE	50	NE	NE	500
TS-1	3/24/2011	0 - 0.5	**410**	<0.19	<0.23	<0.23	<0.69	<1.34	**140 J**	**1,600**	**1,740**
TS-1 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**81 J**	**1,800**	**1,881**
TS-1 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**570**	**586**
TS-1 (R3)	11/3/2011	0 - 0.5	**120**	NA	NA	NA	NA	NA	<9.8	**440**	**449.8**
TS-2	3/24/2011	0 - 0.5	**310**	<0.019	<0.023	<0.023	<0.069	<0.134	**8.3 J**	**770**	**778.3**
TS-2 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**560**	**576**
TS-2 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**470**	**486**
TS-3	3/24/2011	0 - 0.5	**600**	<0.19	<0.23	<0.23	**0.83 J**	**1.48**	<80	**1,700**	**1,780**
TS-3 (R)	6/20/2011	0 - 0.5	**290**	NA	NA	NA	NA	NA	<30	**1,400**	**1,430**
TS-3 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**1,200**	**1,216**
TS-3 (R3)	11/3/2011	0 - 0.5	**120**	NA	NA	NA	NA	NA	<24	**1,200**	**1,224**
TS-3 (R4)	12/6/2011	0.5 - 1	NA	NA	NA	NA	NA	NA	<4.8	**270**	**274.8**
TS-4	3/24/2011	0 - 0.5	**270**	<0.019	<0.023	<0.023	**0.14 J**	**0.205**	**17 J**	**1,300**	**1,317**
TS-4 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**820**	**835**
TS-4 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<7.5	**250**	**257.5**
TS-5	3/24/2011	0 - 0.5	**440**	<0.019	<0.023	<0.023	<0.069	<0.134	<8.0	**1,300**	**1,308**
TS-5 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**1.6 J**	**14**	**15.6**
TS-6	3/24/2011	0 - 0.5	**190**	**<0.37**	<0.46	<0.45	**1.6 J**	**2.88**	<160	**2,000**	**2,160**
TS-6 (R)	6/20/2011	0 - 0.5	NA	<0.018	<0.022	<0.021	<0.065	<0.126	<7.6	**230**	**237.6**
TS-7	3/24/2011	0 - 0.5	**260**	<0.019	<0.023	**0.023 J**	**0.25 J**	**0.315**	**20 J**	**1,500**	**1,520**
TS-7 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**56**	**57.6**
TS-8	3/24/2011	0 - 0.5	**350**	<0.019	**0.039 J**	**0.069 J**	**0.09**	**0.217**	**47**	**1,500**	**1,547**
TS-8 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	<3.5	<5.1
TS-9	3/24/2011	0 - 0.5	**410**	<0.019	<0.023	**0.023 J**	<0.069	**0.134**	<8.0	**650**	**658**
TS-9 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<8.0	**270**	**278**
TS-10	3/24/2011	0 - 0.5	**110**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,000**	**1,080**
TS-10 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<8.4	**250**	**258.4**
TS-11	3/24/2011	0 - 0.5	**160**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,800**	**1,880**
TS-11 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**790**	**806**
TS-11 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.5	**350**	**351.5**
TS-12	3/24/2011	0 - 0.5	**160**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,400**	**1,480**
TS-12 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**440**	**455**
TS-13	3/24/2011	0 - 0.5	**100**	**<0.37**	<0.46	<0.45	<1.4	**2.68**	<160	**1,900**	**2,060**
TS-13 (R)	6/20/2011	0 - 0.5	NA	<0.018	<0.022	<0.022	<0.066	<0.128	<7.7	**290**	**297.7**
TS-14	3/24/2011	0 - 0.5	**210**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,100**	**1,180**
TS-14 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<15	**500**	**515**
TS-15	3/24/2011	0 - 0.5	**210**	<0.19	<0.23	<0.23	<0.69	<1.34	**160 J**	**2,400**	**2,560**
TS-15 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**17 J**	**430**	**447**

ENSOLUM

TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-16	3/24/2011	0 - 0.5	**230**	<0.19	<0.23	<0.23	<0.69	<1.34	**210 J**	**1,900**	**2,110**
TS-16 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.5	**73**	**74.5**
TS-17	3/24/2011	0 - 0.5	**320**	<0.037	<0.046	<0.045	<0.14	<0.268	<16	**1,200**	**1,216**
TS-17 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	**3.3 J**	**99**	**102.3**
TS-18	3/24/2011	0 - 0.5	**280**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,800**	**2,880**
TS-18 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**63**	**64.6**
TS-19	3/24/2011	0 - 0.5	**290**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,700**	**2,780**
TS-19 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<16	**790**	**806**
TS-19 (R2)	8/24/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<7.5	**330**	**337.5**
TS-20	3/24/2011	0 - 0.5	**230**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,200**	**2,280**
TS-20 (R)	6/20/2011	0 - 0.5	NA	NA	NA	NA	NA	NA	<1.6	**72**	**73.6**
VZ-1	3/3/2012	3 - 3.25	**460**	<0.0047	<0.0081	<0.0039	<0.0160	<0.0327	<1.4	<5.4	<6.8
VZ-2	3/3/2012	3 - 3.25	**1,300**	<0.0046	<0.0079	<0.0038	<0.0160	<0.0323	<1.3	<5.4	<6.7

Concentrations in **bold** and shaded yellow exceed the applicable NMAC Small Landfarm Closure Performance Standards.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

** Totals include reported concentration and/or assume concentrations up to the SDL.

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

mg/kg - milligrams per kilogram

bgs - below ground surface

NE - Not Established

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-1	1/20/2015	NA	**2,900**	**0.094**	<0.002	<0.002	**0.370**	**2.30**	**1.20**	NA	NA
	10/27/2015	NA	**2,390**	**0.339**	<0.002	**0.074**	**0.369**	**4.95**	<1.40	NA	**4.95**
	2/4/2016	NA	**1,740**	**0.966**	<0.010	**0.198**	**0.874**	**7.46**	**1.43**	NA	**8.89**
	5/3/2016	NA	NA	**1.570**	**0.0187**	**0.343**	**1.760**	**6.99**	<1.50	NA	**6.99**
	8/9/2016	NA	NA	**0.387**	<0.00184	**0.0877**	**0.439**	**7.96**	**1.42 J**	NA	**9.38**
	11/14/2016	Not Sampled Due to Presence of PSH									
	2/23/2017	Not Sampled Due to Presence of PSH									
	5/11/2017	Not Sampled Due to Presence of PSH									
	8/22/2017	Not Sampled Due to Presence of PSH									
	11/17/2017	NA	NA	**0.772**	**0.0206**	**0.119**	**0.509**	**9.79**	**9.32**	<0.911	**19.1**
	5/31/2018	Not Sampled Due to Presence of PSH									
	9/17/2019	Not Sampled Due to Presence of PSH									
	5/19/2020	Not Sampled Due to Presence of PSH									
	11/10/2020	Not Sampled Due to Presence of PSH									
	5/20/2021	Not Sampled Due to Presence of PSH									
	8/17/2021	Not Sampled Due to Presence of PSH									
	11/23/2021	Not Sampled Due to Presence of PSH									
	3/1/2022	Not Sampled Due to Presence of PSH									
	5/24/2022	Not Sampled Due to Presence of PSH									
	8/22/2022	Not Sampled Due to Presence of PSH									
	11/8/2022	Not Sampled Due to Presence of PSH									
	12/15/2022	P&A									
MW-2	1/20/2015	Not Sampled Due to Presence of PSH									
	10/27/2015	Not Sampled Due to Presence of PSH									
	2/4/2016	Not Sampled Due to Presence of PSH									
	5/2/2016	Not Sampled Due to Presence of PSH									
	8/9/2016	Not Sampled Due to Presence of PSH									
	11/14/2016	Not Sampled Due to Presence of PSH									
	2/23/2017	Not Sampled Due to Presence of PSH									
	5/11/2017	Not Sampled Due to Presence of PSH									
	8/22/2017	Not Sampled Due to Presence of PSH									
	11/16/2017	Not Sampled Due to Presence of PSH									
	5/31/2018	Not Sampled Due to Presence of PSH									
	9/17/2019	Not Sampled Due to Presence of PSH									
	5/19/2020	Not Sampled Due to Presence of PSH									
	11/10/2020	Not Sampled Due to Presence of PSH									
	5/20/2021	Not Sampled Due to Presence of PSH									
	8/17/2021	Not Sampled Due to Presence of PSH									
	11/23/2021	Not Sampled Due to Presence of PSH									
	3/1/2022	Not Sampled Due to Presence of PSH									
	5/24/2022	Not Sampled Due to Presence of PSH									
	8/22/2022	Not Sampled Due to Presence of PSH									
	11/8/2022	Not Sampled Due to Presence of PSH									
	2/15/2023	Not Sampled Due to Presence of PSH									
	8/17/2023	Not Sampled Due to Presence of PSH									
	12/6/2023	Not Sampled Due to Presence of PSH									

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	250.0	0.005	1	0.7	0.62	NE	NE	NE	NE
MW-3	1/20/2015	NA	1,800	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015		3,470	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		2,350	**0.00476**	<0.002	**0.00385**	**0.0149**	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.002	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000637	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00151 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.874	**1.16 J**	<0.808	**1.16**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.900	<0.831	<0.831	<0.831
	11/10/2020			<0.000408	**0.00102 J**	<0.000657	<0.0006300	<0.887	<0.819	<0.819	<0.819
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.926	<0.926	<0.894	<0.926
	8/17/2021			<0.000408	<0.000367	<0.000657	**0.000880 J**	<0.938	<0.938	<0.905	<0.938
	11/23/2021			<0.000408	**0.000418 J**	<0.000657	<0.000642	<0.877	<0.877	<0.846	<0.877
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.0877	<0.887	<0.856	<0.887
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.893	<0.893	<0.862	<0.893
	8/22/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
	2/15/2023			<0.00200	<0.00200	<0.00200	<0.00400	<4.70	<4.70	<4.70	<4.70
	8/17/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.872	<0.872	<0.841	<0.872
	12/6/2023			<0.000408	**0.00102 J**	<0.000657	<0.000642	<0.969	<0.969	<0.935	<0.969
MW-4	1/20/2015	6,940	2,500	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015	NA	2,040	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		2,230	**0.00706**	<0.002	**0.00485**	**0.0217**	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00172 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.881	**1.16 J**	<0.814	**1.16**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.924	<0.854	<0.854	<0.854
	11/10/2020			<0.000408	**0.000640 J**	<0.000657	<0.0006300	<0.892	<0.824	<0.824	<0.824
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.932	<0.932	<0.900	<0.932
	8/17/2021			<0.000408	**0.00142 J**	<0.000657	<0.000642	<0.944	<0.944	<0.911	<0.944
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	**5.19**	**2.54 J**	<0.856	**7.73**
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	**1.10 J**	<0.893	<0.862	1.10 J
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.893	<0.893	<0.862	<0.893
	8/22/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.906	<0.906	<0.875	<0.906
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
	2/15/2023			<0.00200	<0.00200	<0.00200	<0.00400	<4.70	<4.70	<4.70	<4.70
	8/17/2023			<0.000408	<0.000367	<0.000657	<0.000642	<1.03	<1.03	<0.993	<1.03
	12/6/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.947	<0.947	<0.914	<0.947

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GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-5	1/20/2015	**4,930**	**1,100**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00	NA	NA
	10/27/2015	NA	**2,190**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		**2,230**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/23/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.987	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00184 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	**0.00086**	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.874	**0.829 J**	<0.807	**0.829**
	5/19/2020			<0.000408	**0.000470 J**	<0.000657	<0.000630	<0.911	<0.842	<0.842	<0.842
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.884	<0.817	<0.817	<0.817
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.918	<0.918	<0.886	<0.918
	8/17/2021			<0.000408	**0.000530 J**	<0.000657	<0.000642	<0.926	<0.926	<0.894	<0.926
	11/23/2021			<0.000408	<0.000367	<0.000629	<0.000642	<0.887	<0.887	<0.856	<0.887
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	5/25/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	8/23/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.909	<0.909	<0.877	<0.909
	11/8/2022			**0.00573**	**0.00281**	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	2/15/2023			<0.00200	<0.00200	<0.00200	<0.00400	<5.02	<5.02	<5.02	<5.02
	8/15/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.959	<0.959	<0.926	<0.959
	12/6/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.988	<0.988	<0.954	<0.988
MW-6	10/27/2015	NA	**335**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**339**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/23/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00167 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.865	**1.10 J**	<0.799	**1.10**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.911	<0.842	<0.842	<0.842
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.888	<0.820	<0.820	<0.820
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.941	<0.941	<0.908	<0.941
	8/17/2021			<0.000408	**0.000396 J**	<0.000657	<0.000642	<0.923	<0.923	<0.891	<0.923
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	8/23/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	11/8/2022			**0.000648 J**	**0.000649 J**	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	2/15/2023			<0.00200	<0.00200	<0.00200	<0.00400	<5.07	<5.07	<5.07	<5.07
	8/17/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.988	<0.988	<0.954	<0.988
	12/6/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.988	<0.988	<0.954	<0.988

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Eddy County, New Mexico
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Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	250.0	0.005	1	0.7	0.62	NE	NE	NE	NE
MW-7	10/27/2015	NA	**1,470**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**1,400**	<0.001	<0.002	<0.002	<0.0010	<1.40	<1.40	NA	<1.40
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00342**	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	<0.911	<0.911
	5/30/2018			<0.000408	**0.000570**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.877	**1.03 J**	<0.810	**1.03**
	5/19/2020			**0.000470 J**	<0.000367	<0.000657	**0.000650 J**	<0.925	<0.855	<0.855	<0.855
	11/11/2020			<0.000408	**0.000410 J**	<0.000657	<0.0006300	<0.884	<0.817	<0.817	<0.817
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.947	<0.947	<0.914	<0.947
	8/17/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.947	<0.947	<0.914	<0.947
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.880	<0.880	<0.849	<0.880
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.880	<0.880	<0.849	<0.880
	8/22/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.893	<0.893	<0.862	<0.893
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	12/15/2022			P&A							
MW-8	10/27/2015	NA	**2,240**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**690**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00156 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/16/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	**0.000840**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.877	<0.810	<0.810	<0.810
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.909	<0.840	<0.840	<0.840
	11/10/2020			<0.000408	**0.000410 J**	<0.000657	<0.0006300	<0.902	<0.833	<0.833	<0.833
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.929	<0.929	<0.897	<0.929
	8/17/2021			<0.000408	**0.000570 J**	<0.000657	<0.000642	<0.920	<0.920	<0.888	<0.920
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
	5/24/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.906	<0.906	<0.875	<0.906
	8/22/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.885	<0.885	<0.854	<0.885
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	2/15/2023			<0.00200	<0.00200	<0.00200	<0.00400	<4.60	<4.60	<4.60	<4.60
	8/17/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.995	<0.995	<0.960	<0.995
	12/6/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.953	<0.953	<0.920	<0.953

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-9	10/27/2015	NA	**1,600**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40	NA	<1.40
	2/4/2016		**1,320**	<0.001	<0.001	<0.0010	<0.0010	<1.41	<1.41	NA	<1.41
	5/2/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/8/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/14/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00134 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/30/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/16/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.886	**1.26 J**	<0.819	**1.26**
	5/19/2020			<0.000408	<0.000367	<0.000657	<0.000630	<0.922	<0.852	<0.852	<0.852
	11/11/2020			<0.000408	<0.000367	<0.000657	<0.0006300	<0.916	<0.846	<0.846	<0.846
	5/20/2021			<0.000214	<0.000500	<0.000515	<0.000330	<0.935	<0.935	<0.902	<0.935
	8/17/2021			**0.0845**	<0.000367	**0.000880 J**	**0.00164 J**	<0.932	<0.932	<0.900	<0.932
	11/23/2021			**0.0742**	<0.000367	<0.000657	<0.000642	<0.904	<0.904	<0.872	<0.904
	3/1/2022			**0.0638**	<0.000367	<0.000657	<0.000642	<0.885	<0.885	<0.854	<0.885
	5/25/2022			**0.00405**	<0.000367	<0.000657	<0.000642	<0.906	<0.906	<0.875	<0.906
	8/23/2022			**0.0723**	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	11/8/2022			**0.0417**	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	2/15/2023			**0.00979**	<0.00200	<0.00200	<0.00400	<4.79	<4.79	<4.79	<4.79
	8/17/2023			**0.0079**	**0.00368**	<0.000657	<0.000642	<1.00	<1.00	<0.966	<1.00
	12/6/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.988	<0.988	<0.954	<0.988
MW-10	10/28/2015	NA	**474**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	2/4/2016		**762**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41	NA	<1.41
	5/3/2016		NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50	NA	<1.50
	8/9/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	11/15/2016			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<1.50
	2/24/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986	<0.911	<0.911
	5/11/2017			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	NA	<0.911
	8/22/2017			<0.000408	**0.00135 J**	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	11/17/2017			0.00077	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	5/31/2018			<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911	<0.911	<0.911
	9/17/2019			<0.000408	<0.000367	<0.000657	<0.000630	<0.866	**1.17 J**	<0.800	**1.17**
	5/19/2020			**0.000500 J**	<0.000367	<0.000657	<0.000630	<0.915	<0.845	<0.845	<0.845
	11/11/2020			**0.00132 J**	<0.000367	<0.000657	<0.0006300	**0.960 J**	<0.825	<0.825	**0.960**
	5/20/2021			**0.000665 J**	<0.000500	<0.000515	<0.000330	<0.926	**1.63 J**	<0.894	**1.63 J**
	8/18/2021			**0.00115 J**	**0.000399 J**	<0.000657	<0.000642	<0.941	<0.941	<0.908	<0.941
	11/23/2021			Not Sampled Due to Presence of PSH							
	3/1/2022			Not Sampled Due to Presence of PSH							
	5/25/2022			**0.000911 J**	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	8/22/2022			Not Sampled Due to Presence of PSH							
	11/8/2022			Not Sampled Due to Presence of PSH							
	12/15/2022			P&A							

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	250.0	0.005	1	0.7	0.62	NE	NE	NE	NE
MW-11S	12/9/2019	NA	NA	0.637	0.393	0.0959	0.520	5.88	5.18	<2.30	11.1
	5/19/2020			0.748	0.0745 J	0.142	0.139	5.37	6.28	<0.847	11.7
	11/11/2020			1.26	0.00207	0.258	0.09568	3.81	2.10 J	<0.837	5.91
	5/20/2021			0.789	0.00472 J	0.219	0.0770	3.43 J	6.92	<0.902	10.4
	8/18/2021			0.908	0.0466	0.198	0.123	4.99	6.53	<0.900	11.5
	11/23/2021			0.866	0.00553 J	0.314	0.203	3.54 J	7.05	<0.867	10.6
	3/1/2022			0.807	<0.00367	0.219	0.187	2.67 J	5.28	<0.859	7.95
	5/25/2022			0.790	0.157 J	0.319	0.625	2.92 J	4.47 J	<0.856	7.39
	8/23/2022			0.864	<0.00367	0.253	0.455	6.66	5.28	<0.867	11.9
	11/8/2022			1.07	0.00378 J	0.236	0.534	12.5	8.97	<0.869	21.5
	2/15/2023			0.848	0.00838 J	0.275	0.713	15.1	11.8	<5.12	26.9
	8/18/2023			0.974	0.0309	<0.000657	1.2	8.66	11.7	<1.03	20.4
	12/6/2023			0.847	<0.00367	0.180	0.230	4.29 J	6.96	<0.950	11.3
MW-11D	12/9/2019	NA	NA	0.0155	<0.00200	<0.00200	0.00780	<2.29	<2.29	<2.29	<2.29
	5/19/2020			0.00197 J	0.000660 J	<0.000657	0.00113 J	<0.902	<0.833	<0.833	<0.833
	11/11/2020			0.0544	0.000760 J	<0.000657	0.001410 J	<0.895	<0.827	<0.827	<0.827
	5/20/2021			0.0352	<0.000500	<0.000515	<0.000330	<0.929	<0.929	<0.897	<0.929
	8/18/2021			0.000720 J	0.000776 J	<0.000657	<0.000642	<0.947	<0.947	<0.914	<0.947
	11/23/2021			0.00983	<0.000367	<0.000657	<0.000642	0.886 J	<0.885	<0.854	0.886 J
	3/1/2022			0.0123	<0.000367	<0.000657	<0.000642	<0.882	<0.882	<0.851	<0.882
	5/25/2022			0.00188 J	<0.000367	<0.000657	<0.000642	<0.909	<0.909	<0.877	<0.909
	8/23/2022			0.000427 J	<0.000367	<0.000657	<0.000642	<0.893	<0.893	<0.862	<0.893
	11/8/2022			0.0076	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	2/15/2023			0.0122	<0.00200	<0.00200	<0.00400	<5.02	<5.02	<5.02	<5.02
	8/18/2023			0.000523 J	<0.000367	<0.000657	<0.000642	<0.991	<0.991	<0.957	<0.991
	12/6/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.985	<0.985	<0.950	<0.985
MW-12S	6/29/2021	NA	NA	0.527	0.115	0.125	0.625	4.00 J	2.12 J	<0.849	6.12
	8/18/2021			0.848	0.118	0.176	0.787	6.14	2.48 J	<0.888	8.62
	11/23/2021			1.34	0.0254	0.392	1.01	5.05	4.94	<0.851	9.99
	3/1/2022			0.800	<0.000367	0.019	0.00875	1.91 J	5.58	<0.849	7.49
	5/25/2022			1.34	0.264	0.470	0.242	2.74 J	2.32 J	<0.875	5.06
	8/23/2022			1.09	<0.000367	0.273	0.111	5.56	4.42 J	<0.859	9.98
	11/8/2022			1.42	0.00574 J	0.342	0.0561	5.86	5.44	<0.869	11.3
	2/15/2023			1.47	<0.00200	0.410	0.0708	4.74 J	5.34	<4.81	10.1
	8/18/2023			<0.000408	0.00228	<0.000657	0.0786	3.95 J	6.51	<1.00	10.5
	12/6/2023			1.57	<0.000367	0.225	0.0339	2.15 J	4.87	<0.929	7.02
MW-12D	6/29/2021	NA	NA	0.252	0.00267	<0.000657	0.0135	<0.906	1.11 J	<0.875	1.11
	8/18/2021			0.232	0.00147 J	0.000711 J	0.00915	<0.920	<0.920	<0.888	<0.920
	11/23/2021			0.182	0.000658 J	<0.000657	0.000943 J	<0.882	<0.882	<0.851	<0.882
	3/1/2022			0.178	<0.000367	<0.000657	<0.000642	<0.882	<0.882	<0.851	<0.882
	5/25/2022			0.0276	0.000890 J	<0.000657	0.00216 J	<0.890	<0.890	<0.859	<0.890
	8/23/2022			0.00694	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	11/8/2022			0.00216	<0.000367	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	2/15/2023			0.0038	<0.00200	<0.00200	<0.00400	<5.21	<5.21	<5.21	<5.21
	8/18/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.969	<0.969	<0.935	<0.969
	12/6/2023			<0.000408	0.000718 J	<0.000657	<0.000642	<0.988	<0.988	<0.954	<0.988

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH GRO/DRO/MRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**	**NE**	**NE**
MW-13S	6/29/2021	Not Sampled Due to Presence of PSH									
	8/18/2021	Not Sampled Due to Presence of PSH									
	11/23/2021	Not Sampled Due to Presence of PSH									
	3/1/2022	Not Sampled Due to Presence of PSH									
	5/24/2022	Not Sampled Due to Presence of PSH									
	8/22/2022	Not Sampled Due to Presence of PSH									
	11/8/2022	Not Sampled Due to Presence of PSH									
	2/15/2023	Not Sampled Due to Presence of PSH									
	8/17/2023	Not Sampled Due to Presence of PSH									
	12/6/2023	Not Sampled Due to Presence of PSH									
MW-13D	6/29/2021	NA	NA	**0.00446**	**0.00142 J**	**0.00123 J**	**0.00660**	<0.869	<0.869	<0.839	<0.869
	8/18/2021			**0.00189 J**	<0.000367	<0.000657	<0.000642	<0.956	<0.956	<0.923	<0.956
	11/23/2021			<0.000408	<0.000367	<0.000657	<0.000642	<0.898	<0.898	<0.867	<0.898
	3/1/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.890	<0.890	<0.859	<0.890
	5/25/2022			**0.00226**	**0.000493 J**	<0.000657	<0.000642	<0.901	<0.901	<0.869	<0.901
	8/23/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.887	<0.887	<0.856	<0.887
	11/8/2022			<0.000408	<0.000367	<0.000657	<0.000642	<0.895	<0.895	<0.864	<0.895
	2/15/2023			**0.000672 J**	<0.00200	<0.00200	<0.00400	**22.2**	**38.3**	<4.98	**60.5**
	8/18/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.969	<0.969	<0.935	<0.969
	12/6/2023			<0.000408	<0.000367	<0.000657	<0.000642	<0.950	<0.950	<0.917	<0.950

Concentrations in **bold** and shaded yellow exceed the applicable New Mexico Water Quality Control Comission Groundwater Quality Standards

Chlorides removed as a COC starting in May 2016

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

mg/L - milligrams per liter

NA - Not Analyzed

NE - Not Established

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-1	12/19/2014	3,065.725	11 - 36	--	8.77	--	3,056.96
	1/20/2015			--	9.02	--	3,056.71
	10/27/2015			--	7.50	--	3,058.23
	11/19/2015			--	7.68	--	3,058.05
	2/4/2016			--	7.66	--	3,058.07
	5/2/2016			--	8.73	--	3,057.00
	8/9/2016			--	9.17	--	3,056.56
	11/14/2016			7.69	8.15	0.46	3,057.97
	2/23/2017			--	8.50	--	3,057.23
	5/11/2017			9.35	11.75	2.40	3,056.02
	8/22/2017			8.83	9.90	1.07	3,056.73
	11/16/2017			8.25	8.34	0.09	3,057.46
	5/30/2018			9.80	11.24	1.44	3,055.71
	2/14/2019			8.17	8.91	0.74	3,057.44
	9/16/2019			8.34	9.04	0.70	3,057.28
	5/18/2020			8.19	9.95	1.76	3,057.27
	11/10/2020			9.70	12.49	2.79	3,055.61
	5/20/2021			11.13	13.43	2.30	3,054.25
	8/17/2021			9.72	12.11	2.39	3,055.65
	11/23/2021			9.47	12.04	2.57	3,055.87
	3/1/2022			11.54	13.70	2.16	3,053.86
	5/24/2022			10.99	13.09	2.10	3,054.42
	8/24/2022			10.23	12.89	2.66	3,055.10
	11/8/2022			8.85	12.05	3.20	3,056.40
	12/15/2022			P&A			
MW-2	12/19/2014	3,064.625	9 - 34	7.05	13.36	6.31	3,056.63
	1/20/2015			6.75	17.80	11.05	3,056.22
	10/27/2015			3.49	17.39	13.90	3,059.05
	11/19/2015			4.11	19.38	15.27	3,058.22
	2/4/2016			4.49	18.53	14.04	3,058.03
	5/2/2016			5.99	17.57	11.58	3,056.90
	7/27/2016			8.40	8.62	0.22	3,056.19
	8/9/2016			8.30	8.46	0.16	3,056.30
	8/24/2016			7.19	7.54	0.35	3,057.38
	9/15/2016			5.42	7.67	2.25	3,058.87
	9/29/2016			5.84	8.60	2.76	3,058.37
	11/14/2016			6.23	8.45	2.22	3,058.06
	2/23/2017			6.81	12.50	5.69	3,056.96
	5/11/2017			8.72	8.78	0.06	3,055.90
	8/22/2017			7.80	8.16	0.36	3,056.77
	11/16/2017			7.25	7.65	0.40	3,057.32
	5/30/2018			9.09	9.87	0.78	3,055.42
	2/14/2019			7.64	9.72	2.08	3,056.67
	9/16/2019			6.50	17.50	11.00	3,056.48
	5/18/2020			7.16	15.00	7.84	3,056.29
	11/10/2020			8.49	18.84	10.35	3,054.58
	5/20/2021			9.27	20.26	10.99	3,053.71
	8/17/2021			7.05	23.35	16.30	3,055.13
	11/23/2021			4.45	17.85	13.40	3,058.17
	3/1/2022			9.74	18.63	8.89	3,053.55
	5/24/2022			10.00	17.62	7.62	3,053.48
	8/24/2022			9.90	14.55	4.65	3,054.03
	11/8/2022			7.70	20.20	12.50	3,055.05
	2/15/2023			6.72	21.55	14.83	3,055.68
	8/17/2023			7.72	25.98	18.26	3,054.17
	12/6/2023			8.92	20.06	11.14	3,054.03

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TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-3	12/19/2014	3,065.405	15 - 35	--	8.94	--	3,056.47
	1/20/2015			--	8.76	--	3,056.65
	10/27/2015			--	6.38	--	3,059.03
	11/19/2015			--	7.48	--	3,057.93
	2/4/2016			--	7.74	--	3,057.67
	5/2/2016			--	8.50	--	3,056.91
	8/9/2016			--	8.96	--	3,056.45
	11/14/2016			--	7.22	--	3,058.19
	2/23/2017			--	8.49	--	3,056.92
	5/11/2017			--	9.70	--	3,055.71
	8/22/2017			--	8.75	--	3,056.66
	11/16/2017			--	7.38	--	3,058.03
	5/30/2018			--	9.72	--	3,055.69
	2/14/2019			--	8.53	--	3,056.88
	9/16/2019			--	8.00	--	3,057.41
	5/18/2020			--	7.96	--	3,057.45
	11/10/2020			--	9.87	--	3,055.54
	5/20/2021			--	11.27	--	3,054.14
	8/17/2021			--	9.68	--	3,055.73
	11/23/2021			--	9.39	--	3,056.02
	3/1/2022			--	11.58	--	3,053.83
	5/24/2022			--	10.64	--	3,054.77
	8/22/2022			--	9.99	--	3,055.42
	11/8/2022			--	8.88	--	3,056.53
	2/15/2023			--	9.58	--	3,055.83
	8/17/2023			--	9.00	--	3,056.41
	12/6/2023			--	9.17	--	3,056.24
MW-4	12/19/2014	3,065.975	15 - 35	--	8.95	--	3,057.03
	1/20/2015			--	8.81	--	3,057.17
	10/27/2015			--	7.51	--	3,058.47
	11/19/2015			--	8.31	--	3,057.67
	2/4/2016			--	8.29	--	3,057.69
	5/2/2016			--	9.10	--	3,056.88
	8/9/2016			--	9.53	--	3,056.45
	11/14/2016			--	7.92	--	3,058.06
	2/23/2017			--	5.97	--	3,060.01
	5/11/2017			--	10.37	--	3,055.61
	8/22/2017			--	9.74	--	3,056.24
	11/16/2017			--	8.55	--	3,057.43
	5/30/2018			--	10.47	--	3,055.51
	2/14/2019			--	8.96	--	3,057.02
	9/16/2019			--	8.62	--	3,057.36
	5/18/2020			--	8.73	--	3,057.25
	11/10/2020			--	10.43	--	3,055.55
	5/20/2021			--	12.06	--	3,053.92
	8/17/2021			--	11.02	--	3,054.96
	11/23/2021			--	10.36	--	3,055.62
	3/1/2022			--	12.35	--	3,053.63
	5/24/2022			--	11.46	--	3,054.52
	8/22/2022			--	11.13	--	3,054.85
	11/8/2022			--	9.92	--	3,056.06
	2/15/2023			--	9.93	--	3,056.05
	8/17/2023			--	9.75	--	3,056.23
	12/6/2023			--	10.13	--	3,055.85

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TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-5	12/19/2014	3,065.445	11 - 36	--	8.20	--	3,057.25
	1/20/2015			--	8.50	--	3,056.95
	10/27/2015			--	6.46	--	3,058.99
	11/19/2015			--	6.84	--	3,058.61
	2/4/2016			--	6.75	--	3,058.70
	5/2/2016			--	7.80	--	3,057.65
	8/9/2016			--	7.33	--	3,058.12
	11/14/2016			--	7.07	--	3,058.38
	2/23/2017			--	7.71	--	3,057.74
	5/11/2017			--	8.86	--	3,056.59
	8/22/2017			--	8.54	--	3,056.91
	11/16/2017			--	7.76	--	3,057.69
	5/30/2018			--	9.54	--	3,055.91
	2/14/2019			--	7.99	--	3,057.46
	9/16/2019			--	8.32	--	3,057.13
	5/18/2020			--	8.44	--	3,057.01
	11/10/2020			--	10.02	--	3,055.43
	5/20/2021			--	11.10	--	3,054.35
	8/17/2021			--	9.79	--	3,055.66
	11/23/2021			--	9.64	--	3,055.81
	3/1/2022			--	11.53	--	3,053.92
	5/24/2022			--	11.40	--	3,054.05
	8/22/2022			--	10.68	--	3,054.77
	11/8/2022			--	9.44	--	3,056.01
	2/15/2023			--	8.96	--	3,056.49
	8/17/2023			--	9.76	--	3,055.69
	12/6/2023			--	9.81	--	3,055.64
MW-6	10/27/2015	3,063.680	5 - 35	--	3.58	--	3,060.10
	11/19/2015			--	4.98	--	3,058.70
	2/4/2016			--	5.18	--	3,058.50
	5/2/2016			--	6.49	--	3,057.19
	8/9/2016			--	7.33	--	3,056.35
	11/14/2016			--	5.46	--	3,058.22
	2/23/2017			--	6.41	--	3,057.27
	5/11/2017			--	7.54	--	3,056.14
	8/22/2017			--	6.88	--	3,056.80
	11/16/2017			--	5.39	--	3,058.29
	5/30/2018			--	8.31	--	3,055.37
	2/14/2019			--	6.74	--	3,056.94
	9/16/2019			--	7.40	--	3,056.28
	5/18/2020			--	7.68	--	3,056.00
	11/10/2020			--	9.28	--	3,054.40
	5/20/2021			--	9.75	--	3,053.93
	8/17/2021			--	7.82	--	3,055.86
	11/23/2021			--	8.49	--	3,055.19
	3/1/2022			--	10.41	--	3,053.27
	5/24/2022			--	10.65	--	3,053.03
	8/22/2022			--	9.67	--	3,054.01
	11/8/2022			--	8.30	--	3,055.38
	2/15/2023			--	8.00	--	3,055.68
	8/17/2023			--	9.19	--	3,054.49
	12/6/2023			--	9.10	--	3,054.58

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TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-7	10/27/2015	3,061.710	5 - 35	--	7.00	--	3,054.71
	11/19/2015			--	7.61	--	3,054.10
	2/4/2016			--	7.34	--	3,054.37
	5/2/2016			--	8.61	--	3,053.10
	8/9/2016			--	9.44	--	3,052.27
	11/14/2016			--	8.12	--	3,053.59
	2/23/2017			--	8.77	--	3,052.94
	5/11/2017			--	9.75	--	3,051.96
	8/22/2017			--	9.67	--	3,052.04
	11/16/2017			--	8.62	--	3,053.09
	5/30/2018			--	10.80	--	3,050.91
	2/14/2019			--	9.29	--	3,052.42
	9/16/2019			--	9.91	--	3,051.80
	5/18/2020			--	10.10	--	3,051.61
	11/10/2020			--	10.70	--	3,051.01
	5/20/2021			--	11.34	--	3,050.37
	8/17/2021			--	10.58	--	3,051.13
	11/23/2021			--	11.07	--	3,050.64
	3/1/2022			--	12.25	--	3,049.46
	5/24/2022			--	12.65	--	3,049.06
	8/22/2022			--	12.16	--	3,049.55
	11/8/2022			--	11.30	--	3,050.41
	12/15/2022			P&A			
MW-8	10/27/2015	3,063.650	5 - 35	--	4.76	--	3,058.89
	11/19/2015			--	5.87	--	3,057.78
	2/4/2016			--	6.14	--	3,057.51
	5/2/2016			--	7.41	--	3,056.24
	8/9/2016			--	8.14	--	3,055.51
	11/14/2016			--	6.25	--	3,057.40
	2/23/2017			--	7.20	--	3,056.45
	5/11/2017			--	8.32	--	3,055.33
	8/22/2017			--	7.83	--	3,055.82
	11/16/2017			--	6.26	--	3,057.39
	5/30/2018			--	8.96	--	3,054.69
	2/14/2019			--	7.44	--	3,056.21
	9/16/2019			--	7.80	--	3,055.85
	5/18/2020			--	7.89	--	3,055.76
	11/10/2020			--	8.39	--	3,055.26
	5/20/2021			--	10.29	--	3,053.36
	8/17/2021			--	8.76	--	3,054.89
	11/23/2021			--	8.99	--	3,054.66
	3/1/2022			--	10.81	--	3,052.84
	5/24/2022			--	10.82	--	3,052.83
	8/22/2022			--	9.88	--	3,053.77
	11/8/2022			--	8.76	--	3,054.89
	2/15/2023			--	8.85	--	3,054.80
	8/17/2023			--	9.45	--	3,054.20
	12/6/2023			--	9.07	--	3,054.58

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TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-9	10/27/2015	3,067.020	5 - 35	--	11.26	--	3,055.76
	11/19/2015			--	11.60	--	3,055.42
	2/4/2016			--	11.00	--	3,056.02
	5/2/2016			--	12.18	--	3,054.84
	8/9/2016			--	12.92	--	3,054.10
	11/14/2016			--	11.04	--	3,055.98
	2/23/2017			--	11.84	--	3,055.18
	5/11/2017			--	12.97	--	3,054.05
	8/22/2017			--	12.99	--	3,054.03
	11/16/2017			--	11.94	--	3,055.08
	5/30/2018			--	13.20	--	3,053.82
	2/14/2019			--	11.56	--	3,055.46
	9/16/2019			--	11.59	--	3,055.43
	5/18/2020			--	11.63	--	3,055.39
	11/10/2020			--	13.10	--	3,053.92
	5/20/2021			--	14.74	--	3,052.28
	8/17/2021			--	14.22	--	3,052.80
	11/23/2021			--	13.88	--	3,053.14
	3/1/2022			--	14.95	--	3,052.07
	5/24/2022			--	14.36	--	3,052.66
	8/22/2022			--	14.72	--	3,052.30
	11/8/2022			--	13.62	--	3,053.40
	2/15/2023			--	13.26	--	3,053.76
	8/17/2023			--	12.75	--	3,054.27
	12/6/2023			--	13.02	--	3,054.00
MW-10	10/27/2015	3,064.210	5 - 35	--	4.99	--	3,059.22
	11/19/2015			--	6.26	--	3,057.95
	2/4/2016			--	6.46	--	3,057.75
	5/2/2016			--	7.41	--	3,056.80
	8/9/2016			--	7.97	--	3,056.24
	11/14/2016			--	6.18	--	3,058.03
	2/23/2017			--	7.30	--	3,056.91
	5/11/2017			--	8.49	--	3,055.72
	8/22/2017			--	7.75	--	3,056.46
	11/16/2017			--	6.24	--	3,057.97
	5/30/2018			--	8.83	--	3,055.38
	2/14/2019			--	7.46	--	3,056.75
	9/16/2019			--	7.40	--	3,056.81
	5/18/2020			--	7.48	--	3,056.73
	11/10/2020			--	9.21	--	3,055.00
	5/20/2021			--	10.28	--	3,053.93
	8/17/2021			--	8.54	--	3,055.67
	11/23/2021			8.69	8.70	0.01	3,055.51
	3/1/2022			10.76	10.83	0.07	3,053.38
	5/24/2022			--	10.34	--	3,053.87
	8/24/2022			9.47	9.68	0.21	3,054.53
	11/8/2022			8.15	8.82	0.67	3,055.39
	12/15/2022			P&A			

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TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-11S	12/9/2019	3,065.920	2.5 - 22	--	8.78	--	3,057.14
	5/18/2020			--	8.88	--	3,057.04
	11/10/2020			--	10.24	--	3,055.68
	5/20/2021			--	11.91	--	3,054.01
	8/17/2021			--	10.71	--	3,055.21
	11/23/2021			--	10.34	--	3,055.58
	3/1/2022			--	12.29	--	3,053.63
	5/24/2022			--	11.78	--	3,054.14
	8/22/2022			--	11.01	--	3,054.91
	11/8/2022			--	9.88	--	3,056.04
	2/15/2023			--	9.92	--	3,056.00
	8/17/2023			--	9.95	--	3,055.97
	12/6/2023			--	10.22	--	3,055.70
MW-11D	12/9/2019	3,065.870	30 - 40	--	8.78	--	3,057.09
	5/18/2020			--	8.92	--	3,056.95
	11/10/2020			--	10.60	--	3,055.27
	5/20/2021			--	11.96	--	3,053.91
	8/17/2021			--	10.61	--	3,055.26
	11/23/2021			--	10.34	--	3,055.53
	3/1/2022			--	12.33	--	3,053.54
	5/24/2022			--	11.72	--	3,054.15
	8/22/2022			--	11.14	--	3,054.73
	11/8/2022			--	9.88	--	3,055.99
	2/15/2023			--	9.92	--	3,055.95
	8/17/2023			--	10.11	--	3,055.76
	12/6/2023			--	10.33	--	3,055.54
MW-12S	6/29/2021	3,065.65	5 - 20	--	10.96	--	3,054.69
	8/17/2021			--	10.71	--	3,054.94
	11/23/2021			--	9.75	--	3,055.90
	3/1/2022			--	11.80	--	3,053.85
	5/24/2022			--	11.30	--	3,054.35
	8/22/2022			--	10.38	--	3,055.27
	11/8/2022			--	9.45	--	3,056.20
	2/15/2023			--	9.62	--	3,056.03
	8/17/2023			--	9.37	--	3,056.28
	12/6/2023			--	9.65	--	3,056.00
MW-12D	6/29/2021	3,065.65	30 - 40	--	11.61	--	3,054.04
	8/17/2021			--	10.30	--	3,055.35
	11/23/2021			--	9.98	--	3,055.67
	3/1/2022			--	12.01	--	3,053.64
	5/24/2022			--	11.35	--	3,054.30
	8/22/2022			--	10.78	--	3,054.87
	11/8/2022			--	9.53	--	3,056.12
	2/15/2023			--	9.54	--	3,056.11
	8/17/2023			--	9.78	--	3,055.87
	12/6/2023			--	9.92	--	3,055.73

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Top-of-Casing Elevation (feet AMSL)	Screen Interval (feet bgs)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-13S	6/29/2021	3,064.42	2 - 17	8.18	8.33	0.15	3,056.22
	8/17/2021			4.91	6.78	1.87	3,059.23
	11/23/2021			7.73	9.03	1.30	3,056.50
	3/1/2022			9.81	10.71	0.90	3,054.48
	5/24/2022			10.17	10.29	0.12	3,054.23
	8/24/2022			8.94	10.15	1.21	3,055.30
	11/8/2022			7.23	8.70	1.47	3,056.97
	2/15/2023			6.20	6.30	0.10	3,058.21
	8/17/2023			4.75	4.90	0.15	3,059.65
	12/6/2023			3.90	4.08	0.18	3,060.49
MW-13D	6/29/2021	3,064.45	30 - 40	--	10.24	--	3,054.21
	8/17/2021			--	8.95	--	3,055.50
	11/23/2021			--	8.57	--	3,055.88
	3/1/2022			--	10.92	--	3,053.53
	5/24/2022			--	10.65	--	3,053.80
	8/22/2022			--	9.73	--	3,054.72
	11/8/2022			--	8.50	--	3,055.95
	2/15/2023			--	8.70	--	3,055.75
	8/17/2023			--	9.05	--	3,055.40
	12/6/2023			--	8.95	--	3,055.50

AMSL - above mean sea level

-- No PSH present during gauging event

NS - Not Surveyed

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TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-1	9/16/2019	Not sampled due to presence of PSH				
	5/19/2020	Not sampled due to presence of PSH				
	11/10/2020	Not sampled due to presence of PSH				
	5/20/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
	3/1/2022	Not sampled due to presence of PSH				
	5/24/2022	Not sampled due to presence of PSH				
	8/24/2022	Not sampled due to presence of PSH				
	11/8/2022	Not sampled due to presence of PSH				
	12/15/2022	P&A				
MW-2	9/16/2019	Not sampled due to presence of PSH				
	5/19/2020	Not sampled due to presence of PSH				
	11/10/2020	Not sampled due to presence of PSH				
	5/20/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
	3/1/2022	Not sampled due to presence of PSH				
	5/24/2022	Not sampled due to presence of PSH				
	8/24/2022	Not sampled due to presence of PSH				
	11/8/2022	Not sampled due to presence of PSH				
	2/15/2023	Not sampled due to presence of PSH				
	8/17/2023	Not sampled due to presence of PSH				
	12/6/2023	Not sampled due to presence of PSH				
MW-3	9/16/2019	28.7	6.63	0.35	101.0	7.64
	5/19/2020	22.0	6.77	2.11	168.1	9.54
	11/10/2020	19.8	6.58	1.15	97.8	8.14
	5/20/2021	21.2	6.36	2.42	141.9	7.43
	8/17/2021	30.8	6.97	0.95	131.5	8.93
	11/23/2021	18.7	6.89	1.04	88.1	7.44
	3/1/2022	19.8	5.51	0.74	145.8	9.28
	5/24/2022	21.87	6.79	5.13	224.3	0.01
	8/22/2022	22.65	7.09	0.13	123.0	8.70
	11/8/2022	21.23	6.97	1.67	156.5	8.63
	2/15/2023	19.73	7.27	2.25	130.4	8.58
	8/17/2023	22.65	7.64	0.01	61.4	9.46
	12/6/2023	18.93	6.66	0.57	64.0	7.829
MW-4	9/16/2019	27.7	6.29	0.34	115.8	8.45
	5/19/2020	21.4	6.28	1.21	194.2	9.35
	11/10/2020	19.4	6.16	2.01	116.5	8.14
	5/20/2021	21.1	6.32	1.89	173.8	7.18
	8/17/2021	25.3	6.69	0.12	132.5	9.06
	11/23/2021	18.6	6.57	0.04	106.0	7.78
	3/1/2022	18.5	5.73	1.13	174.0	9.25
	5/24/2022	21.51	6.61	2.42	233.4	0.01
	8/22/2022	22.58	6.82	0.11	129.4	8.44
	11/8/2022	21.11	6.64	0.12	169.0	9.27
	2/15/2023	20.05	6.93	0.23	71.8	9.30
	8/17/2023	21.85	7.32	0.06	83.7	1.35
	12/6/2023	19.32	6.31	0.61	68.4	8.431

ENSOLUM

TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-5	9/17/2019	28.6	6.51	0.30	117.8	5.56
	5/19/2020	28.2	6.47	0.44	171.7	6.11
	11/11/2020	17.6	6.41	1.45	58.2	5.76
	5/20/2021	21.6	6.37	1.40	143.5	4.94
	8/17/2021	24.3	6.72	0.13	135.0	5.90
	11/23/2021	19.2	6.67	0.02	105.6	4.96
	3/2/2022	18.4	5.23	5.37	146.7	5.91
	5/25/2022	20.27	6.79	3.02	244.1	0.01
	8/23/2022	21.68	6.92	0.13	141.9	5.82
	11/8/2022	24.30	6.74	0.19	-211.7	5.49
	2/16/2023	18.37	6.88	0.23	152.8	5.96
	8/17/2023	23.20	7.58	0.04	65.5	6.95
	12/6/2023	20.84	6.53	0.38	69.2	5.623
MW-6	9/17/2019	29.8	6.84	0.62	117.2	4.35
	5/19/2020	26.9	6.81	0.54	152.8	4.76
	11/11/2020	19.3	6.91	4.78	85.6	4.26
	5/20/2021	21.6	6.56	2.20	161.9	3.30
	8/17/2021	24.2	7.06	0.30	123.6	4.49
	11/23/2021	19.9	6.98	0.44	81.6	3.94
	3/2/2022	18.9	4.99	0.94	126.6	4.64
	5/24/2022	23.55	6.98	3.67	189.2	0.01
	8/23/2022	22.09	7.30	1.51	122.7	4.41
	11/8/2022	22.18	7.05	0.61	143.9	4.73
	2/15/2023	20.22	7.35	0.87	130.6	4.58
	8/17/2023	21.81	7.87	0.07	43.5	5.28
	12/6/2023	21.15	6.78	0.58	69.2	4.041
MW-7	9/17/2019	25.5	6.57	0.36	106.0	6.45
	5/19/2020	23.5	6.59	5.13	168.9	7.35
	11/11/2020	14.9	6.62	0.73	73.4	6.88
	5/20/2021	23.1	6.48	1.55	140.2	6.16
	8/17/2021	24.2	6.84	0.23	139.4	7.21
	11/23/2021	16.7	6.79	0.72	101.2	5.84
	3/2/2022	17.9	5.47	1.33	152.3	7.24
	5/24/2022	23.08	6.82	3.42	203.7	0.01
	8/22/2022	23.33	7.10	0.40	119.3	6.92
	11/8/2022	22.08	6.84	0.56	144.8	7.17
	12/15/2022	P&A				
MW-8	9/17/2019	24.4	6.56	0.63	141.5	6.70
	5/19/2020	24.6	6.52	0.50	179.6	7.86
	11/11/2020	22.0	6.43	0.55	85.8	6.91
	5/20/2021	22.6	6.46	1.45	139.7	6.15
	8/17/2021	24.3	6.78	0.14	133.2	7.81
	11/23/2021	19.3	6.71	0.28	93.0	6.85
	3/1/2022	19.52	7.04	0.91	131.5	7.81
	5/24/2022	23.09	6.78	2.66	191.0	0.01
	8/22/2022	23.11	7.01	0.18	135.7	7.50
	11/8/2022	21.27	6.77	0.13	145.0	7.69
	2/15/2023	19.52	7.29	0.46	184.7	7.61
	8/17/2023	21.51	7.60	0.04	62.3	9.08
	12/6/2023	20.13	6.52	0.42	67.4	7.291

ENSOLUM

TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-9	9/16/2019	31.0	6.76	0.52	39.9	7.25
	5/19/2020	28.1	6.79	0.97	173.2	7.68
	11/11/2020	20.0	6.61	0.31	33.5	6.77
	5/20/2021	20.0	6.39	2.18	251.7	5.70
	8/17/2021	22.8	7.06	0.44	97.3	7.37
	11/23/2021	19.6	6.94	0.03	109.6	6.47
	3/2/2022	21.1	5.47	0.89	156.6	7.53
	5/25/2022	20.90	6.63	6.15	210.7	0.01
	8/23/2022	20.27	7.14	0.25	124.3	7.22
	11/8/2022	21.25	7.04	1.60	144.6	7.53
	2/15/2023	19.52	7.29	0.46	184.7	7.61
	8/17/2023	21.89	7.79	0.16	48.0	8.62
	12/6/2023	20.96	6.68	2.03	64.2	7.023
MW-10	5/19/2020	27.7	5.96	0.45	11.8	5.53
	11/11/2020	19.9	5.87	0.39	46.9	4.66
	5/20/2021	23.2	6.34	1.69	154.3	3.99
	8/18/2021	21.4	6.28	0.21	102.4	5.15
	11/23/2021	Not sampled due to presence of PSH				
	3/1/2022	Not sampled due to presence of PSH				
	5/25/2022	20.20	6.32	1.90	178.6	0.01
	8/24/2022	Not sampled due to presence of PSH				
	11/8/2022	Not sampled due to presence of PSH				
	12/15/2022	P&A				
MW-11S	12/9/2019	19.23	7.12	0.09	-339.2	5.41
	5/19/2020	25.7	6.51	0.24	-260.8	6.03
	11/11/2020	22.9	6.49	0.13	-264.9	5.11
	5/20/2021	24.8	6.44	0.80	-331.4	4.76
	8/18/2021	22.7	6.77	0.12	-345.6	5.65
	11/23/2021	21.8	6.72	0.03	-324.8	4.84
	3/2/2022	22.7	8.20	0.74	-361.0	5.55
	5/25/2022	22.32	6.68	1.00	-328.8	0.01
	8/23/2022	23.33	6.95	0.06	-366.3	5.45
	11/8/2022	23.70	6.66	0.03	-351.0	5.82
	2/16/2023	18.75	7.03	0.01	-360.0	5.89
	8/18/2023	23.44	7.52	0.00	-415.7	6.45
	12/6/2023	21.28	6.57	0.30	-331.6	5.407
MW-11D	12/9/2019	18.73	6.65	0.29	-189.0	6.69
	5/19/2020	27.4	6.33	0.69	-82.9	7.90
	11/11/2020	22.5	6.09	3.16	49.0	7.38
	5/20/2021	24.5	6.35	1.17	163.8	6.75
	8/18/2021	22.0	6.58	0.20	134.5	7.90
	11/23/2021	20.9	6.50	0.03	119.4	6.99
	3/2/2022	21.5	5.67	0.90	149.4	5.67
	5/25/2022	22.30	6.63	3.56	211.6	0.02
	8/23/2022	22.24	6.82	0.12	136.0	7.60
	11/8/2022	22.60	6.60	0.35	148.0	7.92
	2/16/2023	18.88	6.64	0.14	155.6	8.23
	8/18/2023	22.17	7.37	0.22	42.3	9.42
	12/6/2023	21.53	6.29	2.09	75.7	7.596

ENSOLUM

TABLE 5
GROUNDWATER QUALITY RESULTS
South Carlsbad Compressor Station
Enterprise Field Services LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226001

Sample Designation	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-12S	6/29/2021	23.6	6.40	0.05	-264.5	8.89
	8/18/2021	24.3	6.42	0.06	-302.8	8.89
	11/23/2021	22.1	6.30	0.02	-272.0	7.11
	3/2/2022	25.9	5.58	0.50	-264.2	8.20
	5/25/2022	22.02	6.38	1.37	-280.2	0.02
	8/23/2022	24.63	6.70	0.00	-361.3	7.66
	11/8/2022	23.70	6.42	0.04	-278.0	7.95
	2/15/2023	19.11	6.66	0.00	-294.8	8.26
	8/18/2023	22.89	7.41	0.00	-383.2	9.17
	12/6/2023	20.83	6.23	0.55	-265.2	7.804
MW-12D	6/29/2021	26.4	6.27	1.67	96.4	9.19
	8/18/2021	24.5	6.33	0.26	-206.7	9.30
	11/23/2021	21.2	6.29	0.04	-236.4	8.17
	3/2/2022	22.8	6.37	3.14	-223.0	0.02
	5/25/2022	22.82	6.37	3.14	-223.0	0.02
	8/23/2022	22.31	6.67	0.12	-231.5	8.77
	11/8/2022	22.16	6.43	0.27	-199.5	8.95
	2/16/2023	18.04	6.67	0.13	-253.7	9.08
	8/18/2023	25.46	7.32	0.17	-307.1	10.62
	12/6/2023	21.05	6.15	2.56	80.2	8.523
MW-13S	6/29/2021	Not sampled due to presence of PSH				
	8/17/2021	Not sampled due to presence of PSH				
	11/23/2021	Not sampled due to presence of PSH				
	3/1/2022	Not sampled due to presence of PSH				
	5/25/2022	Not sampled due to presence of PSH				
	8/24/2022	Not sampled due to presence of PSH				
	11/8/2022	Not sampled due to presence of PSH				
	2/16/2023	Not sampled due to presence of PSH				
	8/18/2023	Not sampled due to presence of PSH				
	12/6/2023	Not sampled due to presence of PSH				
MW-13D	6/29/2021	24.3	6.70	0.33	-6.0	5.29
	8/18/2021	22.1	6.85	0.22	119.2	5.28
	11/23/2021	21.8	6.84	0.02	-222.4	4.84
	3/2/2022	20.7	5.20	1.35	131.8	5.28
	5/25/2022	20.50	6.84	3.23	224.5	0.01
	8/23/2022	22.30	7.08	0.17	-254.1	5.16
	11/8/2022	21.78	6.84	1.35	-159.0	5.46
	2/16/2023	16.29	7.09	0.22	-228.3	5.72
	8/18/2023	21.68	7.55	0.18	56.2	6.08
	12/6/2023	19.53	6.56	0.56	64.7	4.836

°C - degrees celsius
mg/L - milligrams per liter
mV - millivolts
mS/cm - millisiemens per centimeter

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/24/2023 1:19:03 PM Revision 1

JOB DESCRIPTION

South Carlsbad CS
SDG NUMBER Carlsbad NM

JOB NUMBER

880-24868-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 7/16/2024 3:36:52 PM

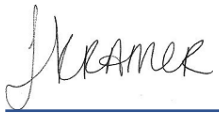
my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Revision 1

Authorized for release by
Jessica Kramer, Project Manager
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(432)704-5440

Client: Ensolum
Project/Site: South Carlsbad CS

Laboratory Job ID: 880-24868-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Qualifiers

GC VOA

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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Job ID: 880-24868-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24868-1

REVISION

The report being provided is a revision of the original report sent on 2/22/2023. The report (revision 1) is being revised due to Per client email, requesting lab review data. Historical Data does not match.

Report revision history

Receipt
The samples were received on 2/16/2023 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-46681 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.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-3

Date Collected: 02/15/23 12:20
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-1
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	0.000408	mg/L			02/20/23 13:46	1
Toluene	<0.00200	U F1	0.00200	0.000367	mg/L			02/20/23 13:46	1
Ethylbenzene	<0.00200	U F1	0.00200	0.000657	mg/L			02/20/23 13:46	1
m-Xylene & p-Xylene	<0.00400	U F1	0.00400	0.000629	mg/L			02/20/23 13:46	1
o-Xylene	<0.00200	U F1	0.00200	0.000642	mg/L			02/20/23 13:46	1
Xylenes, Total	<0.00400	U F1	0.00400	0.000642	mg/L			02/20/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*		*02/20/23 13:46*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*02/20/23 13:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			02/20/23 20:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.70	U	4.70	0.929	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.70	U	4.70	0.929	mg/L		02/21/23 13:56	02/21/23 20:56	1
Diesel Range Organics (Over C10-C28)	<4.70	U *- F1	4.70	0.929	mg/L		02/21/23 13:56	02/21/23 20:56	1
Oil Range Organics (Over C28-C36)	<4.70	U	4.70	0.897	mg/L		02/21/23 13:56	02/21/23 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*02/21/23 13:56*	*02/21/23 20:56*	*1*
o-Terphenyl	*116*		*70 - 130*	*02/21/23 13:56*	*02/21/23 20:56*	*1*

Client Sample ID: MW-4

Date Collected: 02/15/23 11:45
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-2
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 14:06	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 14:06	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 14:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 14:06	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 14:06	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*		*02/20/23 14:06*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*02/20/23 14:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			02/20/23 20:17	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-4

Date Collected: 02/15/23 11:45
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-2
Matrix: Water

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.70	U	4.70	0.929	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.70	U	4.70	0.929	mg/L		02/21/23 13:56	02/21/23 22:00	1
Diesel Range Organics (Over C10-C28)	<4.70	U *-	4.70	0.929	mg/L		02/21/23 13:56	02/21/23 22:00	1
Oil Range Organics (Over C28-C36)	<4.70	U	4.70	0.897	mg/L		02/21/23 13:56	02/21/23 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/21/23 13:56*	*02/21/23 22:00*	*1*
o-Terphenyl	*124*		*70 - 130*	*02/21/23 13:56*	*02/21/23 22:00*	*1*

Client Sample ID: MW-5

Date Collected: 02/15/23 09:40
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-3
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 14:26	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 14:26	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 14:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 14:26	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 14:26	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*		*02/20/23 14:26*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*02/20/23 14:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			02/20/23 20:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<5.02	U	5.02	0.991	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<5.02	U	5.02	0.991	mg/L		02/21/23 13:56	02/21/23 22:22	1
Diesel Range Organics (Over C10-C28)	<5.02	U *-	5.02	0.991	mg/L		02/21/23 13:56	02/21/23 22:22	1
Oil Range Organics (Over C28-C36)	<5.02	U	5.02	0.957	mg/L		02/21/23 13:56	02/21/23 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*02/21/23 13:56*	*02/21/23 22:22*	*1*
o-Terphenyl	*123*		*70 - 130*	*02/21/23 13:56*	*02/21/23 22:22*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-6

Date Collected: 02/15/23 13:35
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-4
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 14:47	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 14:47	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 14:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 14:47	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 14:47	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*		*02/20/23 14:47*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*02/20/23 14:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			02/20/23 20:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<5.07	U	5.07	1.00	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<5.07	U	5.07	1.00	mg/L		02/21/23 13:56	02/21/23 22:43	1
Diesel Range Organics (Over C10-C28)	<5.07	U *-	5.07	1.00	mg/L		02/21/23 13:56	02/21/23 22:43	1
Oil Range Organics (Over C28-C36)	<5.07	U	5.07	0.966	mg/L		02/21/23 13:56	02/21/23 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*235*	*S1+*	*70 - 130*	*02/21/23 13:56*	*02/21/23 22:43*	*1*
o-Terphenyl	*219*	*S1+*	*70 - 130*	*02/21/23 13:56*	*02/21/23 22:43*	*1*

Client Sample ID: MW-8

Date Collected: 02/15/23 12:55
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-5
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 15:07	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 15:07	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 15:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 15:07	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 15:07	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*		*02/20/23 15:07*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*02/20/23 15:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			02/20/23 20:17	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-8

Date Collected: 02/15/23 12:55
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-5
Matrix: Water

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.60	U	4.60	0.909	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.60	U	4.60	0.909	mg/L		02/21/23 13:56	02/21/23 23:05	1
Diesel Range Organics (Over C10-C28)	<4.60	U *-	4.60	0.909	mg/L		02/21/23 13:56	02/21/23 23:05	1
Oil Range Organics (Over C28-C36)	<4.60	U	4.60	0.877	mg/L		02/21/23 13:56	02/21/23 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*02/21/23 13:56*	*02/21/23 23:05*	*1*
o-Terphenyl	*107*		*70 - 130*	*02/21/23 13:56*	*02/21/23 23:05*	*1*

Client Sample ID: MW-9

Date Collected: 02/15/23 14:35
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-6
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00979**		0.00200	0.000408	mg/L			02/20/23 15:28	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 15:28	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 15:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 15:28	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 15:28	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*		*02/20/23 15:28*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*02/20/23 15:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00979**		0.00400	0.000657	mg/L			02/20/23 20:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.79	U	4.79	0.947	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.79	U	4.79	0.947	mg/L		02/21/23 13:56	02/21/23 23:26	1
Diesel Range Organics (Over C10-C28)	<4.79	U *-	4.79	0.947	mg/L		02/21/23 13:56	02/21/23 23:26	1
Oil Range Organics (Over C28-C36)	<4.79	U	4.79	0.914	mg/L		02/21/23 13:56	02/21/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*02/21/23 13:56*	*02/21/23 23:26*	*1*
o-Terphenyl	*110*		*70 - 130*	*02/21/23 13:56*	*02/21/23 23:26*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-11S

Date Collected: 02/16/23 11:00
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-7

Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.848		0.0200	0.00408	mg/L			02/20/23 16:50	10
Toluene	0.00838	J	0.0200	0.00367	mg/L			02/20/23 16:50	10
Ethylbenzene	0.275		0.0200	0.00657	mg/L			02/20/23 16:50	10
m-Xylene & p-Xylene	0.696		0.0400	0.00629	mg/L			02/20/23 16:50	10
o-Xylene	0.0165	J	0.0200	0.00642	mg/L			02/20/23 16:50	10
Xylenes, Total	0.713		0.0400	0.00642	mg/L			02/20/23 16:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*02/20/23 16:50*	*10*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*02/20/23 16:50*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.84		0.0400	0.00657	mg/L			02/20/23 20:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.9		5.12	1.01	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.1	B	5.12	1.01	mg/L		02/21/23 13:56	02/21/23 23:47	1
Diesel Range Organics (Over C10-C28)	11.8	*-	5.12	1.01	mg/L		02/21/23 13:56	02/21/23 23:47	1
Oil Range Organics (Over C28-C36)	<5.12	U	5.12	0.976	mg/L		02/21/23 13:56	02/21/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*02/21/23 13:56*	*02/21/23 23:47*	*1*
o-Terphenyl	*126*		*70 - 130*	*02/21/23 13:56*	*02/21/23 23:47*	*1*

Client Sample ID: MW-11D

Date Collected: 02/16/23 10:30
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-8

Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0122		0.00200	0.000408	mg/L			02/20/23 15:48	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 15:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 15:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 15:48	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 15:48	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*		*02/20/23 15:48*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*02/20/23 15:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0122		0.00400	0.000657	mg/L			02/20/23 20:17	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-11D

Date Collected: 02/16/23 10:30
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-8
Matrix: Water

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<5.02	U	5.02	0.991	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<5.02	U	5.02	0.991	mg/L		02/21/23 13:56	02/22/23 00:08	1
Diesel Range Organics (Over C10-C28)	<5.02	U *-	5.02	0.991	mg/L		02/21/23 13:56	02/22/23 00:08	1
Oil Range Organics (Over C28-C36)	<5.02	U	5.02	0.957	mg/L		02/21/23 13:56	02/22/23 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*02/21/23 13:56*	*02/22/23 00:08*	*1*
o-Terphenyl	*111*		*70 - 130*	*02/21/23 13:56*	*02/22/23 00:08*	*1*

Client Sample ID: MW-12S

Date Collected: 02/16/23 12:10
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-9
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.47**		0.0200	0.00408	mg/L			02/20/23 16:29	10
Toluene	<0.0200	U	0.0200	0.00367	mg/L			02/20/23 16:29	10
Ethylbenzene	**0.410**		0.0200	0.00657	mg/L			02/20/23 16:29	10
m-Xylene & p-Xylene	**0.0708**		0.0400	0.00629	mg/L			02/20/23 16:29	10
o-Xylene	<0.0200	U	0.0200	0.00642	mg/L			02/20/23 16:29	10
Xylenes, Total	**0.0708**		0.0400	0.00642	mg/L			02/20/23 16:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*		*02/20/23 16:29*	*10*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*02/20/23 16:29*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.95**		0.0400	0.00657	mg/L			02/20/23 20:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**10.1**		4.81	0.950	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**4.74**	**J B**	4.81	0.950	mg/L		02/21/23 13:56	02/22/23 00:29	1
Diesel Range Organics (Over C10-C28)	**5.34**	***-**	4.81	0.950	mg/L		02/21/23 13:56	02/22/23 00:29	1
Oil Range Organics (Over C28-C36)	<4.81	U	4.81	0.917	mg/L		02/21/23 13:56	02/22/23 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*02/21/23 13:56*	*02/22/23 00:29*	*1*
o-Terphenyl	*107*		*70 - 130*	*02/21/23 13:56*	*02/22/23 00:29*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-12D

Date Collected: 02/16/23 11:40
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-10

Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00380**		0.00200	0.000408	mg/L			02/20/23 16:09	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 16:09	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 16:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 16:09	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 16:09	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*		*02/20/23 16:09*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*02/20/23 16:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00380**	**J**	0.00400	0.000657	mg/L			02/20/23 20:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<5.21	U	5.21	1.03	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<5.21	U	5.21	1.03	mg/L		02/21/23 13:56	02/22/23 00:51	1
Diesel Range Organics (Over C10-C28)	<5.21	U *-	5.21	1.03	mg/L		02/21/23 13:56	02/22/23 00:51	1
Oil Range Organics (Over C28-C36)	<5.21	U	5.21	0.993	mg/L		02/21/23 13:56	02/22/23 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*02/21/23 13:56*	*02/22/23 00:51*	*1*
o-Terphenyl	*124*		*70 - 130*	*02/21/23 13:56*	*02/22/23 00:51*	*1*

Client Sample ID: MW-13D

Date Collected: 02/16/23 12:50
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-11

Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000672**	**J**	0.00200	0.000408	mg/L			02/20/23 19:40	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 19:40	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 19:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 19:40	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 19:40	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*		*02/20/23 19:40*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*02/20/23 19:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.000672**	**J**	0.00400	0.000657	mg/L			02/20/23 20:17	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-13D

Date Collected: 02/16/23 12:50
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-11

Matrix: Water

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.5		4.98	0.985	mg/L			02/22/23 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.2	B	4.98	0.985	mg/L		02/21/23 13:56	02/22/23 01:13	1
Diesel Range Organics (Over C10-C28)	38.3	*-	4.98	0.985	mg/L		02/21/23 13:56	02/22/23 01:13	1
Oil Range Organics (Over C28-C36)	<4.98	U	4.98	0.950	mg/L		02/21/23 13:56	02/22/23 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*02/21/23 13:56*	*02/22/23 01:13*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/21/23 13:56*	*02/22/23 01:13*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-24332-A-5 MB	Method Blank	141 S1+	99
880-24868-1	MW-3	145 S1+	105
880-24868-1 MS	MW-3	137 S1+	104
880-24868-1 MSD	MW-3	130	103
880-24868-2	MW-4	147 S1+	100
880-24868-3	MW-5	145 S1+	103
880-24868-4	MW-6	140 S1+	105
880-24868-5	MW-8	142 S1+	104
880-24868-6	MW-9	146 S1+	103
880-24868-7	MW-11S	119	92
880-24868-8	MW-11D	145 S1+	105
880-24868-9	MW-12S	143 S1+	102
880-24868-10	MW-12D	145 S1+	105
880-24868-11	MW-13D	154 S1+	102
LCS 880-46681/3	Lab Control Sample	131 S1+	100
LCSD 880-46681/4	Lab Control Sample Dup	127	102
MB 880-46681/8	Method Blank	136 S1+	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24868-1	MW-3	123	116
880-24868-1 MS	MW-3	127	113
880-24868-1 MSD	MW-3	139 S1+	122
880-24868-2	MW-4	130	124
880-24868-3	MW-5	125	123
880-24868-4	MW-6	235 S1+	219 S1+
880-24868-5	MW-8	112	107
880-24868-6	MW-9	116	110
880-24868-7	MW-11S	133 S1+	126
880-24868-8	MW-11D	118	111
880-24868-9	MW-12S	114	107
880-24868-10	MW-12D	126	124
880-24868-11	MW-13D	83	87
LCS 880-46852/2-A	Lab Control Sample	102	89
LCSD 880-46852/3-A	Lab Control Sample Dup	104	92
MB 880-46852/1-A	Method Blank	128	125

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-24332-A-5 MB
Matrix: Water
Analysis Batch: 46681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 18:39	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 18:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 18:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 18:39	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 18:39	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 18:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*		*02/20/23 18:39*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*02/20/23 18:39*	*1*

Lab Sample ID: MB 880-46681/8
Matrix: Water
Analysis Batch: 46681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			02/20/23 13:17	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			02/20/23 13:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			02/20/23 13:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			02/20/23 13:17	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			02/20/23 13:17	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			02/20/23 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*		*02/20/23 13:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*02/20/23 13:17*	*1*

Lab Sample ID: LCS 880-46681/3
Matrix: Water
Analysis Batch: 46681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1179		mg/L		118	70 - 130
Toluene	0.100	0.1154		mg/L		115	70 - 130
Ethylbenzene	0.100	0.1145		mg/L		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2387		mg/L		119	70 - 130
o-Xylene	0.100	0.1159		mg/L		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-46681/4
Matrix: Water
Analysis Batch: 46681

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
Benzene	0.100	0.1172		mg/L		117	70 - 130	1	20

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-46681/4
Matrix: Water
Analysis Batch: 46681

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
Toluene			0.100	0.1118		mg/L		112	70 - 130	3	20
Ethylbenzene			0.100	0.1106		mg/L		111	70 - 130	3	20
m-Xylene & p-Xylene			0.200	0.2295		mg/L		115	70 - 130	4	20
o-Xylene			0.100	0.1128		mg/L		113	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-24868-1 MS
Matrix: Water
Analysis Batch: 46681

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.100	0.1380	F1	mg/L		138	70 - 130
Toluene	<0.00200	U F1	0.100	0.1319	F1	mg/L		131	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.1313	F1	mg/L		131	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.2747	F1	mg/L		137	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.1329	F1	mg/L		133	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-24868-1 MSD
Matrix: Water
Analysis Batch: 46681

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.1390	F1	mg/L		139	70 - 130	1	25
Toluene	<0.00200	U F1	0.100	0.1351	F1	mg/L		135	70 - 130	2	25
Ethylbenzene	<0.00200	U F1	0.100	0.1350	F1	mg/L		135	70 - 130	3	25
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.2808	F1	mg/L		140	70 - 130	2	25
o-Xylene	<0.00200	U F1	0.100	0.1351	F1	mg/L		135	70 - 130	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-46852/1-A
Matrix: Water
Analysis Batch: 46836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46852

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.898	J	4.70	0.929	mg/L		02/21/23 13:56	02/21/23 19:52	1

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-46852/1-A
Matrix: Water
Analysis Batch: 46836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46852

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<4.70	U	4.70	0.929	mg/L		02/21/23 13:56	02/21/23 19:52	1
Oil Range Organics (Over C28-C36)	<4.70	U	4.70	0.897	mg/L		02/21/23 13:56	02/21/23 19:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*02/21/23 13:56*	*02/21/23 19:52*	*1*
o-Terphenyl	*125*		*70 - 130*	*02/21/23 13:56*	*02/21/23 19:52*	*1*

Lab Sample ID: LCS 880-46852/2-A
Matrix: Water
Analysis Batch: 46836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46852

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			93.2	85.22		mg/L		91	75 - 125		
Diesel Range Organics (Over C10-C28)			93.2	65.57	*-	mg/L		70	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: LCSD 880-46852/3-A
Matrix: Water
Analysis Batch: 46836

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46852

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			94.3	89.06		mg/L		94	75 - 125	4	20
Diesel Range Organics (Over C10-C28)			94.3	64.68	*-	mg/L		69	75 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 880-24868-1 MS
Matrix: Water
Analysis Batch: 46836

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 46852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<4.70	U	99.0	83.25		mg/L		84	75 - 125		
Diesel Range Organics (Over C10-C28)	<4.70	U *- F1	99.0	73.14	F1	mg/L		74	75 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*127*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-24868-1 MSD
Matrix: Water
Analysis Batch: 46836

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 46852

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<4.70	U	98.0	95.98		mg/L		98	75 - 125	14	20
Diesel Range Organics (Over C10-C28)	<4.70	U *- F1	98.0	81.39		mg/L		83	75 - 125	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*139*	*S1+*	*70 - 130*
o-Terphenyl	*122*		*70 - 130*

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

GC VOA

Analysis Batch: 46681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24868-1	MW-3	Total/NA	Water	8021B	
880-24868-2	MW-4	Total/NA	Water	8021B	
880-24868-3	MW-5	Total/NA	Water	8021B	
880-24868-4	MW-6	Total/NA	Water	8021B	
880-24868-5	MW-8	Total/NA	Water	8021B	
880-24868-6	MW-9	Total/NA	Water	8021B	
880-24868-7	MW-11S	Total/NA	Water	8021B	
880-24868-8	MW-11D	Total/NA	Water	8021B	
880-24868-9	MW-12S	Total/NA	Water	8021B	
880-24868-10	MW-12D	Total/NA	Water	8021B	
880-24868-11	MW-13D	Total/NA	Water	8021B	
880-24332-A-5 MB	Method Blank	Total/NA	Water	8021B	
MB 880-46681/8	Method Blank	Total/NA	Water	8021B	
LCS 880-46681/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-46681/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-24868-1 MS	MW-3	Total/NA	Water	8021B	
880-24868-1 MSD	MW-3	Total/NA	Water	8021B	

Analysis Batch: 46817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24868-1	MW-3	Total/NA	Water	Total BTEX	
880-24868-2	MW-4	Total/NA	Water	Total BTEX	
880-24868-3	MW-5	Total/NA	Water	Total BTEX	
880-24868-4	MW-6	Total/NA	Water	Total BTEX	
880-24868-5	MW-8	Total/NA	Water	Total BTEX	
880-24868-6	MW-9	Total/NA	Water	Total BTEX	
880-24868-7	MW-11S	Total/NA	Water	Total BTEX	
880-24868-8	MW-11D	Total/NA	Water	Total BTEX	
880-24868-9	MW-12S	Total/NA	Water	Total BTEX	
880-24868-10	MW-12D	Total/NA	Water	Total BTEX	
880-24868-11	MW-13D	Total/NA	Water	Total BTEX	

GC Semi VOA

Analysis Batch: 46836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24868-1	MW-3	Total/NA	Water	8015B NM	46852
880-24868-2	MW-4	Total/NA	Water	8015B NM	46852
880-24868-3	MW-5	Total/NA	Water	8015B NM	46852
880-24868-4	MW-6	Total/NA	Water	8015B NM	46852
880-24868-5	MW-8	Total/NA	Water	8015B NM	46852
880-24868-6	MW-9	Total/NA	Water	8015B NM	46852
880-24868-7	MW-11S	Total/NA	Water	8015B NM	46852
880-24868-8	MW-11D	Total/NA	Water	8015B NM	46852
880-24868-9	MW-12S	Total/NA	Water	8015B NM	46852
880-24868-10	MW-12D	Total/NA	Water	8015B NM	46852
880-24868-11	MW-13D	Total/NA	Water	8015B NM	46852
MB 880-46852/1-A	Method Blank	Total/NA	Water	8015B NM	46852
LCS 880-46852/2-A	Lab Control Sample	Total/NA	Water	8015B NM	46852
LCSD 880-46852/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	46852
880-24868-1 MS	MW-3	Total/NA	Water	8015B NM	46852

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 46836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24868-1 MSD	MW-3	Total/NA	Water	8015B NM	46852

Prep Batch: 46852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24868-1	MW-3	Total/NA	Water	8015NM Aq Prep	
880-24868-2	MW-4	Total/NA	Water	8015NM Aq Prep	
880-24868-3	MW-5	Total/NA	Water	8015NM Aq Prep	
880-24868-4	MW-6	Total/NA	Water	8015NM Aq Prep	
880-24868-5	MW-8	Total/NA	Water	8015NM Aq Prep	
880-24868-6	MW-9	Total/NA	Water	8015NM Aq Prep	
880-24868-7	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-24868-8	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-24868-9	MW-12S	Total/NA	Water	8015NM Aq Prep	
880-24868-10	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-24868-11	MW-13D	Total/NA	Water	8015NM Aq Prep	
MB 880-46852/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-46852/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-46852/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-24868-1 MS	MW-3	Total/NA	Water	8015NM Aq Prep	
880-24868-1 MSD	MW-3	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 46957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24868-1	MW-3	Total/NA	Water	8015 NM	
880-24868-2	MW-4	Total/NA	Water	8015 NM	
880-24868-3	MW-5	Total/NA	Water	8015 NM	
880-24868-4	MW-6	Total/NA	Water	8015 NM	
880-24868-5	MW-8	Total/NA	Water	8015 NM	
880-24868-6	MW-9	Total/NA	Water	8015 NM	
880-24868-7	MW-11S	Total/NA	Water	8015 NM	
880-24868-8	MW-11D	Total/NA	Water	8015 NM	
880-24868-9	MW-12S	Total/NA	Water	8015 NM	
880-24868-10	MW-12D	Total/NA	Water	8015 NM	
880-24868-11	MW-13D	Total/NA	Water	8015 NM	

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-3
Date Collected: 02/15/23 12:20
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 13:46
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/21/23 20:56

Client Sample ID: MW-4
Date Collected: 02/15/23 11:45
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 14:06
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/21/23 22:00

Client Sample ID: MW-5
Date Collected: 02/15/23 09:40
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 14:26
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/21/23 22:22

Client Sample ID: MW-6
Date Collected: 02/15/23 13:35
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 14:47
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/21/23 22:43

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-8
Date Collected: 02/15/23 12:55
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 15:07
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/21/23 23:05

Client Sample ID: MW-9
Date Collected: 02/15/23 14:35
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 15:28
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/21/23 23:26

Client Sample ID: MW-11S
Date Collected: 02/16/23 11:00
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	46681	AJ	EET MID	02/20/23 16:50
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/21/23 23:47

Client Sample ID: MW-11D
Date Collected: 02/16/23 10:30
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 15:48
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/22/23 00:08

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Client Sample ID: MW-12S
Date Collected: 02/16/23 12:10
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	46681	AJ	EET MID	02/20/23 16:29
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/22/23 00:29

Client Sample ID: MW-12D
Date Collected: 02/16/23 11:40
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 16:09
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/22/23 00:51

Client Sample ID: MW-13D
Date Collected: 02/16/23 12:50
Date Received: 02/16/23 16:40

Lab Sample ID: 880-24868-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	46681	AJ	EET MID	02/20/23 19:40
Total/NA	Analysis	Total BTEX		1	46817	AJ	EET MID	02/20/23 20:17
Total/NA	Analysis	8015 NM		1	46957	AJ	EET MID	02/22/23 15:45
Total/NA	Prep	8015NM Aq Prep			46852	AM	EET MID	02/21/23 13:56
Total/NA	Analysis	8015B NM		1	46836	AJ	EET MID	02/22/23 01:13

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
8015 NM		Water	Total TPH
Total BTEX		Water	Total BTEX

Method Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-24868-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24868-1	MW-3	Water	02/15/23 12:20	02/16/23 16:40
880-24868-2	MW-4	Water	02/15/23 11:45	02/16/23 16:40
880-24868-3	MW-5	Water	02/15/23 09:40	02/16/23 16:40
880-24868-4	MW-6	Water	02/15/23 13:35	02/16/23 16:40
880-24868-5	MW-8	Water	02/15/23 12:55	02/16/23 16:40
880-24868-6	MW-9	Water	02/15/23 14:35	02/16/23 16:40
880-24868-7	MW-11S	Water	02/16/23 11:00	02/16/23 16:40
880-24868-8	MW-11D	Water	02/16/23 10:30	02/16/23 16:40
880-24868-9	MW-12S	Water	02/16/23 12:10	02/16/23 16:40
880-24868-10	MW-12D	Water	02/16/23 11:40	02/16/23 16:40
880-24868-11	MW-13D	Water	02/16/23 12:50	02/16/23 16:40

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 248668

www.xenco.com Page 1 of 2

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Mackenfeld 400	Address:	
City, State ZIP:	MIDLAND TX 79701	City, State ZIP:	
Phone:	432-230-3344	Email	bjennings@ensolum.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad CS	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad NM	Due Date:	
Sampler's Name:	Slone Diller	TAT starts the day received by the lab, if received by 4.30pm	
PO #	03B1226001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.30
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.6
Total Containers.		Corrected Temperature:	2.3

Preservative Codes

None NO; DI Water H_2O
Cool Cool; MeOH Me
HCL HC; HNO_3 HN
H_2SO_4 H_2; NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX 8021B	Sample Comments
MW-3	GW	2-15-23	1220	-	G	5		X	X	
MW-4	GW	2-15-23	1145	-	G	5		X	X	
MW-5	GW	2-16-23	940	-	G	5		X	X	
MW-6	GW	2-15-23	1335	-	G	5		X	X	
MW-8	GW	2-15-23	1255	-	G	5		X	X	
MW-9	GW	2-15-23	1435	-	G	5		X	X	
MW-11S	GW	2-16-23	1100	-	G	5		X	X	
MW-11D	GW	2-16-23	1030	-	G	6		X	X	
MW-12S	GW	2-16-23	1210	-	G	5		X	X	
MW-12D	GW	2-16-23	1140	-	G	5		X	X	

880-24868 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2/16/23 1640	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev 2020.2

Released to Imaging: 7/16/2024 3:56:32 PM
Received by OCD: 6/10/2024 12:12:43 PM

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Chain of Custody

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 248608

www.xenco.com Page 2 of 2

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Mesenfeld 400.	Address:	
City, State ZIP:	MIDLAND TX 79701	City, State ZIP:	
Phone:	432 230 3344	Email:	bjennings@ensolum.com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad CS	Turn Around	
Project Number:	03B1226901	☒ Routine ☐ Rush	
Project Location:	Carlsbad NM	Due Date:	
Sampler's Name:	Shane Diller	TAT starts the day received by the lab, if received by 4:30pm	
PO #	03B1226001		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	Parameters: BTEX SW846 8021B
MW-130	GW	2-16-23	1250	-	G	5		X	X

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid. SAPC

Sample Comments

Loc: 880
24868

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 . 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2/16/23 1640	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-24868-1
SDG Number: Carlsbad NM

Login Number: 24868
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
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	
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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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/30/2023 9:30:32 AM

JOB DESCRIPTION

South Carlsbad CS
SDG NUMBER Carlsbad NM

JOB NUMBER

880-32307-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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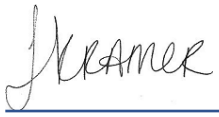
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/30/2023 9:30:32 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: South Carlsbad CS

Laboratory Job ID: 880-32307-1
SDG: Carlsbad NM

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Definitions/Glossary

Client: Ensolum Job ID: 880-32307-1
Project/Site: South Carlsbad CS SDG: Carlsbad NM

Qualifiers

GC 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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi 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.
U	Indicates the analyte was analyzed for but not detected.

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
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Job ID: 880-32307-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32307-1

Receipt
The samples were received on 8/21/2023 10:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-61206/4). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-5 (880-32307-2) and MW-6 (880-32307-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-9 (880-32307-5), MW-11S (880-32307-6), MW-11D (880-32307-7), MW-12S (880-32307-8), MW-12D (880-32307-9) and MW-13D (880-32307-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-3 (880-32307-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-61248/4). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-32119-C-7 MS) and (880-32119-C-7 MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-11S (880-32307-6), MW-11D (880-32307-7) and (880-32119-C-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 880-61248 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Benzene, Toluene, m-Xylene & p-Xylene and o-Xylene in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-61248 recovered outside control limits for the following analytes: <AffectedAnalytes>.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-61426/2), (CCV 880-61426/20), (LCS 880-61426/3) and (LCSD 880-61426/4). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-32452-A-8 MS) and (880-32452-A-8 MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-11D (880-32307-7) and (880-32452-A-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-12S (880-32307-8). 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.

Case Narrative

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Job ID: 880-32307-1 (Continued)

Laboratory: Eurofins Midland (Continued)

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-4

Lab Sample ID: 880-32307-1
Date Collected: 08/17/23 11:15
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/26/23 20:51	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/26/23 20:51	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 20:51	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/26/23 20:51	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 20:51	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*08/26/23 20:51*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*		*08/26/23 20:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.03	U	5.00	1.03	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.03	U	5.00	1.03	mg/L		08/24/23 09:54	08/25/23 02:13	1
Diesel Range Organics (Over C10-C28)	<1.03	U	5.00	1.03	mg/L		08/24/23 09:54	08/25/23 02:13	1
OII Range Organics (Over C28-C36)	<0.993	U	5.00	0.993	mg/L		08/24/23 09:54	08/25/23 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 135*	*08/24/23 09:54*	*08/25/23 02:13*	*1*
o-Terphenyl	*87*		*70 - 135*	*08/24/23 09:54*	*08/25/23 02:13*	*1*

Client Sample ID: MW-5

Lab Sample ID: 880-32307-2
Date Collected: 08/17/23 12:35
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/26/23 21:17	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/26/23 21:17	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 21:17	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/26/23 21:17	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 21:17	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*		*08/26/23 21:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*08/26/23 21:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 12:51	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-5

Lab Sample ID: 880-32307-2
Date Collected: 08/17/23 12:35
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.959	U	5.00	0.959	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.959	U	5.00	0.959	mg/L		08/24/23 09:54	08/24/23 21:37	1
Diesel Range Organics (Over C10-C28)	<0.959	U	5.00	0.959	mg/L		08/24/23 09:54	08/24/23 21:37	1
Oil Range Organics (Over C28-C36)	<0.926	U	5.00	0.926	mg/L		08/24/23 09:54	08/24/23 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 135*	*08/24/23 09:54*	*08/24/23 21:37*	*1*
o-Terphenyl	*91*		*70 - 135*	*08/24/23 09:54*	*08/24/23 21:37*	*1*

Client Sample ID: MW-6

Lab Sample ID: 880-32307-3
Date Collected: 08/17/23 13:15
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/26/23 21:43	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/26/23 21:43	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 21:43	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/26/23 21:43	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 21:43	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*		*08/26/23 21:43*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*08/26/23 21:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.988	U	5.00	0.988	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		08/24/23 09:54	08/24/23 21:16	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		08/24/23 09:54	08/24/23 21:16	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		08/24/23 09:54	08/24/23 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 135*	*08/24/23 09:54*	*08/24/23 21:16*	*1*
o-Terphenyl	*92*		*70 - 135*	*08/24/23 09:54*	*08/24/23 21:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-8

Lab Sample ID: 880-32307-4
Date Collected: 08/17/23 13:45
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/26/23 22:09	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/26/23 22:09	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 22:09	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/26/23 22:09	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 22:09	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*08/26/23 22:09*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*08/26/23 22:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.995	U	5.00	0.995	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.995	U	5.00	0.995	mg/L		08/24/23 09:54	08/25/23 00:07	1
Diesel Range Organics (Over C10-C28)	<0.995	U	5.00	0.995	mg/L		08/24/23 09:54	08/25/23 00:07	1
OII Range Organics (Over C28-C36)	<0.960	U	5.00	0.960	mg/L		08/24/23 09:54	08/25/23 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 135*	*08/24/23 09:54*	*08/25/23 00:07*	*1*
o-Terphenyl	*93*		*70 - 135*	*08/24/23 09:54*	*08/25/23 00:07*	*1*

Client Sample ID: MW-9

Lab Sample ID: 880-32307-5
Date Collected: 08/17/23 14:25
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00790**		0.00200	0.000408	mg/L			08/26/23 22:35	1
Toluene	**0.00368**		0.00200	0.000367	mg/L			08/26/23 22:35	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 22:35	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/26/23 22:35	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 22:35	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*		*08/26/23 22:35*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*		*08/26/23 22:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0116**		0.00200	0.000657	mg/L			08/28/23 12:51	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-9

Lab Sample ID: 880-32307-5
Date Collected: 08/17/23 14:25
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.00	U	5.00	1.00	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.00	U	5.00	1.00	mg/L		08/24/23 09:54	08/25/23 01:52	1
Diesel Range Organics (Over C10-C28)	<1.00	U	5.00	1.00	mg/L		08/24/23 09:54	08/25/23 01:52	1
Oil Range Organics (Over C28-C36)	<0.966	U	5.00	0.966	mg/L		08/24/23 09:54	08/25/23 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 135*	*08/24/23 09:54*	*08/25/23 01:52*	*1*
o-Terphenyl	*91*		*70 - 135*	*08/24/23 09:54*	*08/25/23 01:52*	*1*

Client Sample ID: MW-11S

Lab Sample ID: 880-32307-6
Date Collected: 08/18/23 11:05
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.974**		0.00200	0.00816	mg/L			08/28/23 20:34	20
Toluene	**0.0309**		0.00200	0.000367	mg/L			08/26/23 23:01	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 23:01	1
m-Xylene & p-Xylene	**1.20**		0.00400	0.0126	mg/L			08/28/23 20:34	20
o-Xylene	**0.0174**		0.00200	0.000642	mg/L			08/26/23 23:01	1
Xylenes, Total	**1.20**		0.00200	0.0128	mg/L			08/28/23 20:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*		*08/26/23 23:01*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*		*08/26/23 23:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**2.22**		0.00200	0.0126	mg/L			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**20.4**		5.00	1.07	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**8.66**		5.00	1.07	mg/L		08/24/23 09:54	08/24/23 23:46	1
Diesel Range Organics (Over C10-C28)	**11.7**		5.00	1.07	mg/L		08/24/23 09:54	08/24/23 23:46	1
Oil Range Organics (Over C28-C36)	<1.03	U	5.00	1.03	mg/L		08/24/23 09:54	08/24/23 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 135*	*08/24/23 09:54*	*08/24/23 23:46*	*1*
o-Terphenyl	*89*		*70 - 135*	*08/24/23 09:54*	*08/24/23 23:46*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-11D

Date Collected: 08/18/23 10:35
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-7

Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000523**	**J**	0.00200	0.000408	mg/L			08/26/23 23:27	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/26/23 23:27	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 23:27	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/26/23 23:27	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 23:27	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*		*08/26/23 23:27*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*		*08/26/23 23:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.991	U	5.00	0.991	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.991	U	5.00	0.991	mg/L		08/24/23 09:54	08/24/23 23:25	1
Diesel Range Organics (Over C10-C28)	<0.991	U	5.00	0.991	mg/L		08/24/23 09:54	08/24/23 23:25	1
OII Range Organics (Over C28-C36)	<0.957	U	5.00	0.957	mg/L		08/24/23 09:54	08/24/23 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 135*	*08/24/23 09:54*	*08/24/23 23:25*	*1*
o-Terphenyl	*94*		*70 - 135*	*08/24/23 09:54*	*08/24/23 23:25*	*1*

Client Sample ID: MW-12S

Date Collected: 08/18/23 12:20
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-8

Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/29/23 20:34	1
Toluene	**0.00228**		0.00200	0.000367	mg/L			08/26/23 23:53	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 23:53	1
m-Xylene & p-Xylene	**0.0786**		0.00400	0.000629	mg/L			08/26/23 23:53	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 23:53	1
Xylenes, Total	**0.0786**		0.00200	0.000642	mg/L			08/26/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*		*08/26/23 23:53*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*		*08/26/23 23:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0809**		0.00200	0.000657	mg/L			08/28/23 12:51	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-12S

Lab Sample ID: 880-32307-8
Date Collected: 08/18/23 12:20
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**10.5**		5.00	1.04	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3.95**	**J**	5.00	1.04	mg/L		08/24/23 09:54	08/24/23 23:04	1
Diesel Range Organics (Over C10-C28)	**6.51**		5.00	1.04	mg/L		08/24/23 09:54	08/24/23 23:04	1
Oll Range Organics (Over C28-C36)	<1.00	U	5.00	1.00	mg/L		08/24/23 09:54	08/24/23 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 135*	*08/24/23 09:54*	*08/24/23 23:04*	*1*
o-Terphenyl	*90*		*70 - 135*	*08/24/23 09:54*	*08/24/23 23:04*	*1*

Client Sample ID: MW-12D

Lab Sample ID: 880-32307-9
Date Collected: 08/18/23 11:50
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/27/23 00:18	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/27/23 00:18	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/27/23 00:18	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/27/23 00:18	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/27/23 00:18	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/27/23 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*		*08/27/23 00:18*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*08/27/23 00:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.969	U	5.00	0.969	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.969	U	5.00	0.969	mg/L		08/24/23 09:54	08/25/23 02:34	1
Diesel Range Organics (Over C10-C28)	<0.969	U	5.00	0.969	mg/L		08/24/23 09:54	08/25/23 02:34	1
Oll Range Organics (Over C28-C36)	<0.935	U	5.00	0.935	mg/L		08/24/23 09:54	08/25/23 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 135*	*08/24/23 09:54*	*08/25/23 02:34*	*1*
o-Terphenyl	*91*		*70 - 135*	*08/24/23 09:54*	*08/25/23 02:34*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-13D

Lab Sample ID: 880-32307-10
Date Collected: 08/18/23 09:30
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/27/23 00:44	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/27/23 00:44	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/27/23 00:44	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/27/23 00:44	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/27/23 00:44	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/27/23 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*		*08/27/23 00:44*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*		*08/27/23 00:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.969	U	5.00	0.969	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.969	U	5.00	0.969	mg/L		08/24/23 09:54	08/24/23 22:42	1
Diesel Range Organics (Over C10-C28)	<0.969	U	5.00	0.969	mg/L		08/24/23 09:54	08/24/23 22:42	1
OII Range Organics (Over C28-C36)	<0.935	U	5.00	0.935	mg/L		08/24/23 09:54	08/24/23 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 135*	*08/24/23 09:54*	*08/24/23 22:42*	*1*
o-Terphenyl	*92*		*70 - 135*	*08/24/23 09:54*	*08/24/23 22:42*	*1*

Client Sample ID: MW-3

Lab Sample ID: 880-32307-11
Date Collected: 08/17/23 11:55
Matrix: Water
Date Received: 08/21/23 10:19

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/27/23 02:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/27/23 02:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/27/23 02:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/27/23 02:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/27/23 02:25	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/27/23 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*		*08/27/23 02:25*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*		*08/27/23 02:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 12:51	1

Client Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-3

Date Collected: 08/17/23 11:55
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-11

Matrix: Water

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.872	U	5.00	0.872	mg/L			08/23/23 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.872	U	5.00	0.872	mg/L		08/24/23 09:54	08/24/23 21:59	1
Diesel Range Organics (Over C10-C28)	<0.872	U	5.00	0.872	mg/L		08/24/23 09:54	08/24/23 21:59	1
OII Range Organics (Over C28-C36)	<0.841	U	5.00	0.841	mg/L		08/24/23 09:54	08/24/23 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 135*	*08/24/23 09:54*	*08/24/23 21:59*	*1*
o-Terphenyl	*90*		*70 - 135*	*08/24/23 09:54*	*08/24/23 21:59*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-32307-1	MW-4	114	74
880-32307-1 MS	MW-4	127	80
880-32307-1 MSD	MW-4	123	84
880-32307-2	MW-5	147 S1+	98
880-32307-3	MW-6	141 S1+	90
880-32307-4	MW-8	123	86
880-32307-5	MW-9	133 S1+	77
880-32307-6	MW-11S	143 S1+	116
880-32307-7	MW-11D	137 S1+	84
880-32307-8	MW-12S	142 S1+	131 S1+
880-32307-9	MW-12D	146 S1+	89
880-32307-10	MW-13D	131 S1+	82
880-32307-11	MW-3	161 S1+	112
LCS 880-61206/3	Lab Control Sample	129	84
LCS 880-61248/3	Lab Control Sample	128	85
LCS 880-61426/3	Lab Control Sample	151 S1+	99
LCSD 880-61206/4	Lab Control Sample Dup	136 S1+	101
LCSD 880-61248/4	Lab Control Sample Dup	147 S1+	93
LCSD 880-61426/4	Lab Control Sample Dup	160 S1+	104
MB 880-61206/8	Method Blank	73	79
MB 880-61248/8	Method Blank	83	77
MB 880-61426/8	Method Blank	86	72

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-32307-1	MW-4	70	87
880-32307-2	MW-5	74	91
880-32307-3	MW-6	81	92
880-32307-4	MW-8	82	93
880-32307-5	MW-9	80	91
880-32307-6	MW-11S	75	89
880-32307-7	MW-11D	81	94
880-32307-8	MW-12S	75	90
880-32307-9	MW-12D	77	91
880-32307-10	MW-13D	75	92
880-32307-11	MW-3	76	90
880-32307-11 MS	MW-3	76	84
LCS 860-118612/2-A	Lab Control Sample	98	92
LCSD 860-118612/3-A	Lab Control Sample Dup	95	90
MB 860-118612/1-A	Method Blank	82	95

Surrogate Legend

1CO = 1-Chlorooctane

Surrogate Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61206/8
Matrix: Water
Analysis Batch: 61206

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/26/23 20:26	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/26/23 20:26	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/26/23 20:26	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/26/23 20:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 20:26	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/26/23 20:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*		*08/26/23 20:26*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*		*08/26/23 20:26*	*1*

Lab Sample ID: LCS 880-61206/3
Matrix: Water
Analysis Batch: 61206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08660		mg/L		87	70 - 130		
Toluene			0.100	0.09624		mg/L		96	70 - 130		
Ethylbenzene			0.100	0.09702		mg/L		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1916		mg/L		96	70 - 130		
o-Xylene			0.100	0.09909		mg/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-61206/4
Matrix: Water
Analysis Batch: 61206

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
Benzene			0.100	0.1032		mg/L		103	70 - 130	17	20
Toluene			0.100	0.1109		mg/L		111	70 - 130	14	20
Ethylbenzene			0.100	0.1092		mg/L		109	70 - 130	12	20
m-Xylene & p-Xylene			0.200	0.2189		mg/L		109	70 - 130	13	20
o-Xylene			0.100	0.1102		mg/L		110	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-32307-1 MS
Matrix: Water
Analysis Batch: 61206

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000408	U	0.100	0.09768		mg/L		98	70 - 130		
Toluene	<0.000367	U	0.100	0.1127		mg/L		113	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-32307-1 MS
Matrix: Water
Analysis Batch: 61206

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000657	U	0.100	0.1062		mg/L		106	70 - 130
m-Xylene & p-Xylene	<0.000629	U	0.200	0.2114		mg/L		106	70 - 130
o-Xylene	<0.000642	U	0.100	0.1028		mg/L		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: 880-32307-1 MSD
Matrix: Water
Analysis Batch: 61206

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.08979		mg/L		90	70 - 130	8	25
Toluene	<0.000367	U	0.100	0.1084		mg/L		108	70 - 130	4	25
Ethylbenzene	<0.000657	U	0.100	0.1005		mg/L		100	70 - 130	6	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1992		mg/L		100	70 - 130	6	25
o-Xylene	<0.000642	U	0.100	0.09958		mg/L		100	70 - 130	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: MB 880-61248/8
Matrix: Water
Analysis Batch: 61248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/28/23 14:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/28/23 14:55	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/28/23 14:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/28/23 14:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/28/23 14:55	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/28/23 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*08/28/23 14:55*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*		*08/28/23 14:55*	*1*

Lab Sample ID: LCS 880-61248/3
Matrix: Water
Analysis Batch: 61248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09122		mg/L		91	70 - 130
Toluene	0.100	0.1011		mg/L		101	70 - 130
Ethylbenzene	0.100	0.09697		mg/L		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1965		mg/L		98	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-61248/3
Matrix: Water
Analysis Batch: 61248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09520		mg/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: LCSD 880-61248/4
Matrix: Water
Analysis Batch: 61248

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
Benzene			0.100	0.1100		mg/L		110	70 - 130	19	20
Toluene			0.100	0.1227		mg/L		123	70 - 130	19	20
Ethylbenzene			0.100	0.1154		mg/L		115	70 - 130	17	20
m-Xylene & p-Xylene			0.200	0.2351		mg/L		118	70 - 130	18	20
o-Xylene			0.100	0.1156		mg/L		116	70 - 130	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 880-61426/8
Matrix: Water
Analysis Batch: 61426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			08/29/23 13:20	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			08/29/23 13:20	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			08/29/23 13:20	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			08/29/23 13:20	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			08/29/23 13:20	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			08/29/23 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*08/29/23 13:20*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*		*08/29/23 13:20*	*1*

Lab Sample ID: LCS 880-61426/3
Matrix: Water
Analysis Batch: 61426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09669		mg/L		97	70 - 130		
Toluene			0.100	0.09765		mg/L		98	70 - 130		
Ethylbenzene			0.100	0.09994		mg/L		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2017		mg/L		101	70 - 130		
o-Xylene			0.100	0.09433		mg/L		94	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-61426/3
Matrix: Water
Analysis Batch: 61426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-61426/4
Matrix: Water
Analysis Batch: 61426

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
Benzene			0.100	0.1121		mg/L		112	70 - 130	15	20
Toluene			0.100	0.1095		mg/L		110	70 - 130	11	20
Ethylbenzene			0.100	0.1043		mg/L		104	70 - 130	4	20
m-Xylene & p-Xylene			0.200	0.2117		mg/L		106	70 - 130	5	20
o-Xylene			0.100	0.1102		mg/L		110	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-118612/1-A
Matrix: Water
Analysis Batch: 118653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 118612

Analyte	MB Result	MB Qualifier	MQL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		08/24/23 09:54	08/24/23 18:42	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		08/24/23 09:54	08/24/23 18:42	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		08/24/23 09:54	08/24/23 18:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 135	08/24/23 09:54	08/24/23 18:42	1
o-Terphenyl	95		70 - 135	08/24/23 09:54	08/24/23 18:42	1

Lab Sample ID: LCS 860-118612/2-A
Matrix: Water
Analysis Batch: 118653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 118612

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			100	88.14		mg/L		88	70 - 135		
Diesel Range Organics (Over C10-C28)			99.9	102.5		mg/L		103	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 135
o-Terphenyl	92		70 - 135

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QC Sample Results

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-118612/3-A
Matrix: Water
Analysis Batch: 118653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 118612

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			100	90.84		mg/L		91	70 - 135	3	35
Diesel Range Organics (Over C10-C28)			99.9	105.6		mg/L		106	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 135*
o-Terphenyl	*90*		*70 - 135*

Lab Sample ID: 880-32307-11 MS
Matrix: Water
Analysis Batch: 118650

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 118612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<0.872	U	96.8	72.21		mg/L		75	70 - 135		
Diesel Range Organics (Over C10-C28)	<0.872	U	96.7	94.72		mg/L		98	70 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 135*
o-Terphenyl	*84*		*70 - 135*

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

GC VOA

Analysis Batch: 61206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32307-1	MW-4	Total/NA	Water	8021B	
880-32307-2	MW-5	Total/NA	Water	8021B	
880-32307-3	MW-6	Total/NA	Water	8021B	
880-32307-4	MW-8	Total/NA	Water	8021B	
880-32307-5	MW-9	Total/NA	Water	8021B	
880-32307-6	MW-11S	Total/NA	Water	8021B	
880-32307-7	MW-11D	Total/NA	Water	8021B	
880-32307-8	MW-12S	Total/NA	Water	8021B	
880-32307-9	MW-12D	Total/NA	Water	8021B	
880-32307-10	MW-13D	Total/NA	Water	8021B	
880-32307-11	MW-3	Total/NA	Water	8021B	
MB 880-61206/8	Method Blank	Total/NA	Water	8021B	
LCS 880-61206/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-61206/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-32307-1 MS	MW-4	Total/NA	Water	8021B	
880-32307-1 MSD	MW-4	Total/NA	Water	8021B	

Analysis Batch: 61248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32307-6	MW-11S	Total/NA	Water	8021B	
MB 880-61248/8	Method Blank	Total/NA	Water	8021B	
LCS 880-61248/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-61248/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 61302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32307-1	MW-4	Total/NA	Water	Total BTEX	
880-32307-2	MW-5	Total/NA	Water	Total BTEX	
880-32307-3	MW-6	Total/NA	Water	Total BTEX	
880-32307-4	MW-8	Total/NA	Water	Total BTEX	
880-32307-5	MW-9	Total/NA	Water	Total BTEX	
880-32307-6	MW-11S	Total/NA	Water	Total BTEX	
880-32307-7	MW-11D	Total/NA	Water	Total BTEX	
880-32307-8	MW-12S	Total/NA	Water	Total BTEX	
880-32307-9	MW-12D	Total/NA	Water	Total BTEX	
880-32307-10	MW-13D	Total/NA	Water	Total BTEX	
880-32307-11	MW-3	Total/NA	Water	Total BTEX	

Analysis Batch: 61426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32307-8	MW-12S	Total/NA	Water	8021B	
MB 880-61426/8	Method Blank	Total/NA	Water	8021B	
LCS 880-61426/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-61426/4	Lab Control Sample Dup	Total/NA	Water	8021B	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32307-1	MW-4	Total/NA	Water	8015 NM	
880-32307-2	MW-5	Total/NA	Water	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 101425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32307-3	MW-6	Total/NA	Water	8015 NM	
880-32307-4	MW-8	Total/NA	Water	8015 NM	
880-32307-5	MW-9	Total/NA	Water	8015 NM	
880-32307-6	MW-11S	Total/NA	Water	8015 NM	
880-32307-7	MW-11D	Total/NA	Water	8015 NM	
880-32307-8	MW-12S	Total/NA	Water	8015 NM	
880-32307-9	MW-12D	Total/NA	Water	8015 NM	
880-32307-10	MW-13D	Total/NA	Water	8015 NM	
880-32307-11	MW-3	Total/NA	Water	8015 NM	

Prep Batch: 118612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32307-1	MW-4	Total/NA	Water	8015NM Aq Prep	
880-32307-2	MW-5	Total/NA	Water	8015NM Aq Prep	
880-32307-3	MW-6	Total/NA	Water	8015NM Aq Prep	
880-32307-4	MW-8	Total/NA	Water	8015NM Aq Prep	
880-32307-5	MW-9	Total/NA	Water	8015NM Aq Prep	
880-32307-6	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-32307-7	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-32307-8	MW-12S	Total/NA	Water	8015NM Aq Prep	
880-32307-9	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-32307-10	MW-13D	Total/NA	Water	8015NM Aq Prep	
880-32307-11	MW-3	Total/NA	Water	8015NM Aq Prep	
MB 860-118612/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-118612/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-118612/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-32307-11 MS	MW-3	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 118650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32307-1	MW-4	Total/NA	Water	8015B NM	118612
880-32307-2	MW-5	Total/NA	Water	8015B NM	118612
880-32307-3	MW-6	Total/NA	Water	8015B NM	118612
880-32307-4	MW-8	Total/NA	Water	8015B NM	118612
880-32307-5	MW-9	Total/NA	Water	8015B NM	118612
880-32307-6	MW-11S	Total/NA	Water	8015B NM	118612
880-32307-7	MW-11D	Total/NA	Water	8015B NM	118612
880-32307-8	MW-12S	Total/NA	Water	8015B NM	118612
880-32307-9	MW-12D	Total/NA	Water	8015B NM	118612
880-32307-10	MW-13D	Total/NA	Water	8015B NM	118612
880-32307-11	MW-3	Total/NA	Water	8015B NM	118612
880-32307-11 MS	MW-3	Total/NA	Water	8015B NM	118612

Analysis Batch: 118653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-118612/1-A	Method Blank	Total/NA	Water	8015B NM	118612
LCS 860-118612/2-A	Lab Control Sample	Total/NA	Water	8015B NM	118612
LCSD 860-118612/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	118612

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-4
Date Collected: 08/17/23 11:15
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/26/23 20:51
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/25/23 02:13

Client Sample ID: MW-5
Date Collected: 08/17/23 12:35
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/26/23 21:17
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/24/23 21:37

Client Sample ID: MW-6
Date Collected: 08/17/23 13:15
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/26/23 21:43
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/24/23 21:16

Client Sample ID: MW-8
Date Collected: 08/17/23 13:45
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/26/23 22:09
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/25/23 00:07

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-9
Date Collected: 08/17/23 14:25
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/26/23 22:35
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/25/23 01:52

Client Sample ID: MW-11S
Date Collected: 08/18/23 11:05
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/26/23 23:01
Total/NA	Analysis	8021B		20	61248	SM	EET MID	08/28/23 20:34
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/24/23 23:46

Client Sample ID: MW-11D
Date Collected: 08/18/23 10:35
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/26/23 23:27
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/24/23 23:25

Client Sample ID: MW-12S
Date Collected: 08/18/23 12:20
Date Received: 08/21/23 10:19

Lab Sample ID: 880-32307-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/26/23 23:53
Total/NA	Analysis	8021B		1	61426	SM	EET MID	08/29/23 20:34
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/24/23 23:04

Lab Chronicle

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Client Sample ID: MW-12D

Lab Sample ID: 880-32307-9
Matrix: Water
Date Collected: 08/18/23 11:50
Date Received: 08/21/23 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/27/23 00:18
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/25/23 02:34

Client Sample ID: MW-13D

Lab Sample ID: 880-32307-10
Matrix: Water
Date Collected: 08/18/23 09:30
Date Received: 08/21/23 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/27/23 00:44
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/24/23 22:42

Client Sample ID: MW-3

Lab Sample ID: 880-32307-11
Matrix: Water
Date Collected: 08/17/23 11:55
Date Received: 08/21/23 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	61206	SM	EET MID	08/27/23 02:25
Total/NA	Analysis	Total BTEX		1	61302	SM	EET MID	08/28/23 12:51
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/23/23 15:07
Total/NA	Prep	8015NM Aq Prep			118612	TH	EET HOU	08/24/23 09:54
Total/NA	Analysis	8015B NM		1	118650	W1N	EET HOU	08/24/23 21:59

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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
Total BTEX		Water	Total BTEX

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	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-51	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carlsbad CS

Job ID: 880-32307-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32307-1	MW-4	Water	08/17/23 11:15	08/21/23 10:19
880-32307-2	MW-5	Water	08/17/23 12:35	08/21/23 10:19
880-32307-3	MW-6	Water	08/17/23 13:15	08/21/23 10:19
880-32307-4	MW-8	Water	08/17/23 13:45	08/21/23 10:19
880-32307-5	MW-9	Water	08/17/23 14:25	08/21/23 10:19
880-32307-6	MW-11S	Water	08/18/23 11:05	08/21/23 10:19
880-32307-7	MW-11D	Water	08/18/23 10:35	08/21/23 10:19
880-32307-8	MW-12S	Water	08/18/23 12:20	08/21/23 10:19
880-32307-9	MW-12D	Water	08/18/23 11:50	08/21/23 10:19
880-32307-10	MW-13D	Water	08/18/23 09:30	08/21/23 10:19
880-32307-11	MW-3	Water	08/17/23 11:55	08/21/23 10:19

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8/30/2023

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 32307

www.xenco.com Page 1 of 2

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. Marienfeld Street, Suite 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432.230.3344	Email:	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad CS	Turn Around	
Project Number:	03B1226001	☑ Routine ☐ Rush	
Project Location:	Carlsbad NM	Due Date:	
Sampler's Name:	Shane A Diller	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03B1226001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	Fac
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.30
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.3
Total Containers:		Corrected Temperature:	5.0

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH TX 1005 / 8015	BTEX SW846 8021b	Chlorides 300.0	Sample Comments
MW-4	X	8/17/2023	1115		Grab/	5		X	X		
MW-5	X	8/17/2023	1235		Grab/	5		X	X		
MW-6	X	8/17/2023	1315		Grab/	5		X	X		
MW-8	X	8/17/2023	1345		Grab/	5		X	X		
MW-9	X	8/17/2023	1425		Grab/	5		X	X		
MW-11S	X	18-Aug	1105		Grab/	5		X	X		
MW-11D	X	18-Aug	1035		Grab/	5		X	X		
MW-12S	X	18-Aug	1220		Grab/	5		X	X		
MW-12D	X	18-Aug	1150		Grab/	5		X	X		
MW-13D	X	18-Aug	930		Grab/	5		X	X		

880-32307 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8/21/23 1019	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

[redacted]

8/30/2023

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 880-7716.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Louisiana; NELAP Texas		Job #: 880-32307-1
Address: 4145 Greenbriar Dr	Due Date Requested: 8/25/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: South Carlsbad CS	Project #: 88000022			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

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)	8015MOD_NM/8016NM_Aq_Prep Full TPH	8015MOD_Calc	Special Instructions/Note:
MW-4 (880-32307-1)	8/17/23	11 15 Central		Water	X	X	HD0338
MW-5 (880-32307-2)	8/17/23	12:35 Central		Water	X	X	36
MW-6 (880-32307-3)	8/17/23	13:15 Central		Water	X	X	3.3
MW-8 (880-32307-4)	8/17/23	13:45 Central		Water	X	X	23
MW-9 (880-32307-5)	8/17/23	14:25 Central		Water	X	X	2.0
MW-11S (880-32307-6)	8/18/23	11:05 Central		Water	X	X	20
MW-11D (880-32307-7)	8/18/23	10:35 Central		Water	X	X	1.7
MW-12S (880-32307-8)	8/18/23	12:20 Central		Water	X	X	
MW-12D (880-32307-9)	8/18/23	11:50 Central		Water	X	X	

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 *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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: Jeremiah Baker	Date/Time: 8/22/2023 9:23	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Ver: 06/08/2021

Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

[redacted]

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 880-7716.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP Texas		Job #: 880-32307 1
Address: 4145 Greenbriar Dr	Due Date Requested: 8/25/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: South Carlsbad CS	Project #: 88000022			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other

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)	8015MOD_NM/8015NM_Aq_Prep Full TPH	8015MOD_Calc	Special Instructions/Note:
MW-13D (880-32307 10)	8/18/23	09:30 Central		Water	X	X	How338
MW-3 (880-32307-11)	8/17/23	11:55 Central		Water	X	X	3.6
							33
							2.3
							2.0
							2.0
							1.7

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 *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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: Jeremiah Barker		Date/Time: 8/22/2023 9:23	Company EX
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company

Ver 06/08/2021

Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-32307-1
SDG Number: Carlsbad NM

Login Number: 32307
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
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	
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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-32307-1
SDG Number: Carlsbad NM

Login Number: 32307
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 08/22/23 11:08 AM

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.	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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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/18/2023 2:59:00 PM

JOB DESCRIPTION

South Carslbad CS
Carlsbad NM

JOB NUMBER

880-36668-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

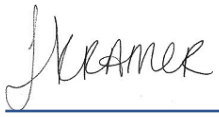
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/18/2023 2:59:00 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: South Carslbad CS

Laboratory Job ID: 880-36668-1
SDG: Carlsbad NM

Table of Contents

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Eurofins Midland
12/18/2023

Definitions/Glossary

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi 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.
U	Indicates the analyte was analyzed for but not detected.

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
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: South Carslbad CS

Job ID: 880-36668-1

Job ID: 880-36668-1 Eurofins Midland

Job Narrative
880-36668-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 12/7/2023 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-6 (880-36668-5), MW-5 (880-36668-6), MW-12D (880-36668-7), MW-11D (880-36668-8) and MW-9 (880-36668-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-68650/34) and (LCSD 880-68650/4). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-3 (880-36668-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-36668-A-4 MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for analytical batch 880-68650 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-12S (880-36668-11), (CCV 880-69084/2), (LCSD 880-69084/35), (890-5753-A-1), (890-5753-A-1 MS), (890-5753-A-1 MSD), (880-34963-A-7 MDLV) and (880-34963-A-8 MB). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-69094 and analytical batch 880-69084 was outside the control limits.

Method 8021B: LCS biased low due to instrument misinjection. The LCSD and MS/MSD will show recovery for the batch, therefore the data has been qualified and reported.

(LCS 880-69084/34)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 880-69084 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 860-134750 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 860-134750/38).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

Case Narrative

Client: Ensolum
Project: South Carslbad CS

Job ID: 880-36668-1

Job ID: 880-36668-1 (Continued)

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-8

Lab Sample ID: 880-36668-1
Date Collected: 12/06/23 09:05
Matrix: Water
Date Received: 12/07/23 16:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 01:28	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 01:28	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 01:28	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 01:28	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 01:28	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*		*12/09/23 01:28*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*12/09/23 01:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 01:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.953	U	5.00	0.988	mg/L			12/12/23 20:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.953	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 20:45	1
Diesel Range Organics (Over C10-C28)	<0.953	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 20:45	1
OII Range Organics (Over C28-C36)	<0.920	U	5.00	0.954	mg/L		12/12/23 11:12	12/12/23 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*12/12/23 11:12*	*12/12/23 20:45*	*1*
o-Terphenyl	*100*		*70 - 135*	*12/12/23 11:12*	*12/12/23 20:45*	*1*

Client Sample ID: MW-3

Lab Sample ID: 880-36668-2
Date Collected: 12/06/23 09:45
Matrix: Water
Date Received: 12/07/23 16:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 01:55	1
Toluene	**0.00102**	**J**	0.00200	0.000367	mg/L			12/09/23 01:55	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 01:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 01:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 01:55	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*		*12/09/23 01:55*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*12/09/23 01:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00102**	**J**	0.00200	0.000657	mg/L			12/09/23 01:55	1

Client Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-3

Date Collected: 12/06/23 09:45
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-2
Matrix: Water

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.969	U	5.00	0.988	mg/L			12/12/23 21:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.969	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 21:05	1
Diesel Range Organics (Over C10-C28)	<0.969	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 21:05	1
Oil Range Organics (Over C28-C36)	<0.935	U	5.00	0.954	mg/L		12/12/23 11:12	12/12/23 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 135*	*12/12/23 11:12*	*12/12/23 21:05*	*1*
o-Terphenyl	*93*		*70 - 135*	*12/12/23 11:12*	*12/12/23 21:05*	*1*

Client Sample ID: MW-4

Date Collected: 12/06/23 10:15
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-3
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 02:22	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 02:22	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 02:22	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 02:22	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 02:22	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*		*12/09/23 02:22*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*		*12/09/23 02:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 02:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.947	U	5.00	0.988	mg/L			12/12/23 22:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.947	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 22:26	1
Diesel Range Organics (Over C10-C28)	<0.947	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 22:26	1
Oil Range Organics (Over C28-C36)	<0.914	U	5.00	0.954	mg/L		12/12/23 11:12	12/12/23 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 135*	*12/12/23 11:12*	*12/12/23 22:26*	*1*
o-Terphenyl	*86*		*70 - 135*	*12/12/23 11:12*	*12/12/23 22:26*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-13D

Lab Sample ID: 880-36668-4
Date Collected: 12/06/23 11:00
Matrix: Water
Date Received: 12/07/23 16:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U F1	0.00200	0.000408	mg/L			12/09/23 06:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 06:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 06:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 06:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 06:49	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*12/09/23 06:49*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*12/09/23 06:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 06:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	5.00	0.988	mg/L			12/12/23 22:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 22:46	1
Diesel Range Organics (Over C10-C28)	<0.950	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 22:46	1
OII Range Organics (Over C28-C36)	<0.917	U	5.00	0.954	mg/L		12/12/23 11:12	12/12/23 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 135*	*12/12/23 11:12*	*12/12/23 22:46*	*1*
o-Terphenyl	*88*		*70 - 135*	*12/12/23 11:12*	*12/12/23 22:46*	*1*

Client Sample ID: MW-6

Lab Sample ID: 880-36668-5
Date Collected: 12/06/23 11:40
Matrix: Water
Date Received: 12/07/23 16:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 07:15	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 07:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 07:15	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 07:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 07:15	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*		*12/09/23 07:15*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*12/09/23 07:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 07:15	1

Client Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-6

Lab Sample ID: 880-36668-5
Date Collected: 12/06/23 11:40
Matrix: Water
Date Received: 12/07/23 16:45

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.988	U	5.00	0.988	mg/L			12/12/23 23:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 23:06	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 23:06	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		12/12/23 11:12	12/12/23 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 135*	*12/12/23 11:12*	*12/12/23 23:06*	*1*
o-Terphenyl	*89*		*70 - 135*	*12/12/23 11:12*	*12/12/23 23:06*	*1*

Client Sample ID: MW-5

Lab Sample ID: 880-36668-6
Date Collected: 12/06/23 12:10
Matrix: Water
Date Received: 12/07/23 16:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 07:41	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 07:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 07:41	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 07:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 07:41	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*		*12/09/23 07:41*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*12/09/23 07:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 07:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.988	U	5.00	0.988	mg/L			12/12/23 23:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 23:26	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 23:26	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		12/12/23 11:12	12/12/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 135*	*12/12/23 11:12*	*12/12/23 23:26*	*1*
o-Terphenyl	*96*		*70 - 135*	*12/12/23 11:12*	*12/12/23 23:26*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-12D

Lab Sample ID: 880-36668-7
Matrix: Water
Date Collected: 12/06/23 12:45
Date Received: 12/07/23 16:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 08:08	1
Toluene	**0.000718**	**J**	0.00200	0.000367	mg/L			12/09/23 08:08	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 08:08	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 08:08	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 08:08	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*		*12/09/23 08:08*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*12/09/23 08:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.000718**	**J**	0.00200	0.000657	mg/L			12/09/23 08:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.988	U	5.00	0.988	mg/L			12/12/23 23:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 23:47	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 23:47	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		12/12/23 11:12	12/12/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 135*	*12/12/23 11:12*	*12/12/23 23:47*	*1*
o-Terphenyl	*84*		*70 - 135*	*12/12/23 11:12*	*12/12/23 23:47*	*1*

Client Sample ID: MW-11D

Lab Sample ID: 880-36668-8
Matrix: Water
Date Collected: 12/06/23 13:25
Date Received: 12/07/23 16:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 08:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 08:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 08:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 08:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 08:34	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 08:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*		*12/09/23 08:34*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*12/09/23 08:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 08:34	1

Client Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-11D

Lab Sample ID: 880-36668-8
Date Collected: 12/06/23 13:25
Matrix: Water
Date Received: 12/07/23 16:45

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.985	U	5.00	0.988	mg/L			12/13/23 00:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.985	U	5.00	0.988	mg/L		12/12/23 11:12	12/13/23 00:07	1
Diesel Range Organics (Over C10-C28)	<0.985	U	5.00	0.988	mg/L		12/12/23 11:12	12/13/23 00:07	1
Oll Range Organics (Over C28-C36)	<0.950	U	5.00	0.954	mg/L		12/12/23 11:12	12/13/23 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 135*	*12/12/23 11:12*	*12/13/23 00:07*	*1*
o-Terphenyl	*94*		*70 - 135*	*12/12/23 11:12*	*12/13/23 00:07*	*1*

Client Sample ID: MW-9

Lab Sample ID: 880-36668-9
Date Collected: 12/06/23 14:10
Matrix: Water
Date Received: 12/07/23 16:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 09:01	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 09:01	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 09:01	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 09:01	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 09:01	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*		*12/09/23 09:01*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*12/09/23 09:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 09:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.988	U	5.00	0.988	mg/L			12/13/23 00:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/13/23 00:27	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/13/23 00:27	1
Oll Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		12/12/23 11:12	12/13/23 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 135*	*12/12/23 11:12*	*12/13/23 00:27*	*1*
o-Terphenyl	*98*		*70 - 135*	*12/12/23 11:12*	*12/13/23 00:27*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-11S

Date Collected: 12/06/23 15:05
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-10
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.847		0.00200	0.000408	mg/L			12/09/23 10:46	10
Toluene	<0.00367	U	0.00200	0.000367	mg/L			12/09/23 10:46	10
Ethylbenzene	0.180		0.00200	0.000657	mg/L			12/09/23 10:46	10
m-Xylene & p-Xylene	0.221		0.00400	0.000629	mg/L			12/09/23 10:46	10
o-Xylene	0.00868	J	0.00200	0.000642	mg/L			12/09/23 10:46	10
Xylenes, Total	0.230		0.00200	0.000642	mg/L			12/09/23 10:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*12/09/23 10:46*	*10*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*		*12/09/23 10:46*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.26		0.00200	0.000657	mg/L			12/09/23 10:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11.3		5.00	0.988	mg/L			12/14/23 00:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	6.96		5.00	0.988	mg/L		12/12/23 11:12	12/13/23 00:47	1
OII Range Organics (Over C28-C36)	<0.950	U	5.00	0.954	mg/L		12/12/23 11:12	12/13/23 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 135*	*12/12/23 11:12*	*12/13/23 00:47*	*1*
o-Terphenyl	*90*		*70 - 135*	*12/12/23 11:12*	*12/13/23 00:47*	*1*

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) - RA

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4.29	J	5.00	0.988	mg/L		12/12/23 11:12	12/14/23 00:42	1

Client Sample ID: MW-12S

Date Collected: 12/06/23 15:35
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-11
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.57	*- *1	0.00200	0.000408	mg/L			12/15/23 06:08	100
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 09:27	1
Ethylbenzene	0.225		0.00200	0.000657	mg/L			12/09/23 09:27	1
m-Xylene & p-Xylene	0.0330		0.00400	0.000629	mg/L			12/09/23 09:27	1
o-Xylene	0.000876	J	0.00200	0.000642	mg/L			12/09/23 09:27	1
Xylenes, Total	0.0339		0.00200	0.000642	mg/L			12/09/23 09:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*12/09/23 09:27*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*12/09/23 09:27*	*1*

Client Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-12S

Date Collected: 12/06/23 15:35
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-11

Matrix: Water

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.83**		0.00200	0.000657	mg/L			12/15/23 06:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7.02**		5.00	0.988	mg/L			12/14/23 01:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**4.87**		5.00	0.988	mg/L		12/12/23 11:12	12/13/23 01:07	1
OII Range Organics (Over C28-C36)	<0.929	U	5.00	0.954	mg/L		12/12/23 11:12	12/13/23 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 135*	*12/12/23 11:12*	*12/13/23 01:07*	*1*
o-Terphenyl	*91*		*70 - 135*	*12/12/23 11:12*	*12/13/23 01:07*	*1*

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) - RA

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.15**	**J**	5.00	0.988	mg/L		12/12/23 11:12	12/14/23 01:02	1

Surrogate Summary

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-36668-1	MW-8	125	95
880-36668-2	MW-3	143 S1+	101
880-36668-3	MW-4	125	78
880-36668-4	MW-13D	118	87
880-36668-4 MS	MW-13D	117	85
880-36668-4 MSD	MW-13D	147 S1+	92
880-36668-5	MW-6	173 S1+	95
880-36668-6	MW-5	148 S1+	88
880-36668-7	MW-12D	156 S1+	106
880-36668-8	MW-11D	164 S1+	104
880-36668-9	MW-9	137 S1+	87
880-36668-10	MW-11S	117	77
880-36668-11	MW-12S	119	88
LCS 880-68650/3	Lab Control Sample	129	100
LCS 880-68650/34	Lab Control Sample	144 S1+	94
LCS 880-69084/34	Lab Control Sample	6 S1-	9 S1-
LCSD 880-68650/35	Lab Control Sample Dup	129	90
LCSD 880-68650/4	Lab Control Sample Dup	142 S1+	108
LCSD 880-69084/35	Lab Control Sample Dup	158 S1+	85
MB 880-68650/39	Method Blank	86	96
MB 880-68650/8	Method Blank	72	88
MB 880-69084/39	Method Blank	94	83
MB 880-69094/5-A	Method Blank	92	65 S1-

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
880-36668-1	MW-8	92	100
880-36668-2	MW-3	87	93
880-36668-3	MW-4	80	86
880-36668-4	MW-13D	85	88
880-36668-5	MW-6	84	89
880-36668-6	MW-5	90	96
880-36668-7	MW-12D	78	84
880-36668-8	MW-11D	88	94
880-36668-9	MW-9	90	98
880-36668-10	MW-11S	84	90
880-36668-11	MW-12S	88	91
LCS 860-134765/2-A	Lab Control Sample	96	87
LCSD 860-134765/3-A	Lab Control Sample Dup	88	76
MB 860-134765/1-A	Method Blank	92	99

Surrogate Legend

1CO = 1-Chlorooctane

Surrogate Summary

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68650/39
Matrix: Water
Analysis Batch: 68650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/09/23 06:22	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/09/23 06:22	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/09/23 06:22	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/09/23 06:22	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 06:22	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/09/23 06:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*12/09/23 06:22*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*12/09/23 06:22*	*1*

Lab Sample ID: MB 880-68650/8
Matrix: Water
Analysis Batch: 68650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/08/23 16:38	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/08/23 16:38	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/08/23 16:38	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/08/23 16:38	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/08/23 16:38	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/08/23 16:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*		*12/08/23 16:38*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*12/08/23 16:38*	*1*

Lab Sample ID: LCS 880-68650/3
Matrix: Water
Analysis Batch: 68650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08066		mg/L		81	70 - 130
Toluene	0.100	0.09926		mg/L		99	70 - 130
Ethylbenzene	0.100	0.1045		mg/L		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2060		mg/L		103	70 - 130
o-Xylene	0.100	0.1044		mg/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 880-68650/34
Matrix: Water
Analysis Batch: 68650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08706		mg/L		87	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-68650/34
Matrix: Water
Analysis Batch: 68650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			0.100	0.09483		mg/L		95	70 - 130		
Ethylbenzene			0.100	0.09296		mg/L		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1801		mg/L		90	70 - 130		
o-Xylene			0.100	0.1063		mg/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-68650/35
Matrix: Water
Analysis Batch: 68650

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
Benzene			0.100	0.08119		mg/L		81	70 - 130	7	20
Toluene			0.100	0.07802		mg/L		78	70 - 130	19	20
Ethylbenzene			0.100	0.08409		mg/L		84	70 - 130	10	20
m-Xylene & p-Xylene			0.200	0.1613		mg/L		81	70 - 130	11	20
o-Xylene			0.100	0.09181		mg/L		92	70 - 130	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-68650/4
Matrix: Water
Analysis Batch: 68650

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
Benzene			0.100	0.08458		mg/L		85	70 - 130	5	20
Toluene			0.100	0.1118		mg/L		112	70 - 130	12	20
Ethylbenzene			0.100	0.1192		mg/L		119	70 - 130	13	20
m-Xylene & p-Xylene			0.200	0.2297		mg/L		115	70 - 130	11	20
o-Xylene			0.100	0.1194		mg/L		119	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-36668-4 MS
Matrix: Water
Analysis Batch: 68650

Client Sample ID: MW-13D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000408	U F1	0.100	0.06691	F1	mg/L		67	70 - 130		
Toluene	<0.000367	U	0.100	0.07875		mg/L		79	70 - 130		
Ethylbenzene	<0.000657	U	0.100	0.07608		mg/L		76	70 - 130		
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1459		mg/L		73	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-36668-4 MS
Matrix: Water
Analysis Batch: 68650

Client Sample ID: MW-13D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.000642	U	0.100	0.07729		mg/L		77	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 880-36668-4 MSD
Matrix: Water
Analysis Batch: 68650

Client Sample ID: MW-13D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U F1	0.100	0.07716		mg/L		77	70 - 130	14	25
Toluene	<0.000367	U	0.100	0.08683		mg/L		87	70 - 130	10	25
Ethylbenzene	<0.000657	U	0.100	0.08860		mg/L		89	70 - 130	15	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1740		mg/L		87	70 - 130	18	25
o-Xylene	<0.000642	U	0.100	0.09447		mg/L		94	70 - 130	20	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-69084/39
Matrix: Water
Analysis Batch: 69084

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/15/23 03:56	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/15/23 03:56	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/15/23 03:56	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/15/23 03:56	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/15/23 03:56	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L			12/15/23 03:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*12/15/23 03:56*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*		*12/15/23 03:56*	*1*

Lab Sample ID: LCS 880-69084/34
Matrix: Water
Analysis Batch: 69084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.003284	*-	mg/L		3	70 - 130
Toluene	0.100	0.02215	*-	mg/L		22	70 - 130
Ethylbenzene	0.100	0.003200	*-	mg/L		3	70 - 130
m-Xylene & p-Xylene	0.200	0.02137	*-	mg/L		11	70 - 130
o-Xylene	0.100	0.02562	*-	mg/L		26	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-69084/34
Matrix: Water
Analysis Batch: 69084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	6	S1-	70 - 130
1,4-Difluorobenzene (Surr)	9	S1-	70 - 130

Lab Sample ID: LCSD 880-69084/35
Matrix: Water
Analysis Batch: 69084

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
Benzene			0.100	0.08302	*1	mg/L		83	70 - 130	185	20
Toluene			0.100	0.09097	*1	mg/L		91	70 - 130	122	20
Ethylbenzene			0.100	0.08486	*1	mg/L		85	70 - 130	185	20
m-Xylene & p-Xylene			0.200	0.1878	*1	mg/L		94	70 - 130	159	20
o-Xylene			0.100	0.1071	*1	mg/L		107	70 - 130	123	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: MB 880-69094/5-A
Matrix: Water
Analysis Batch: 69084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69094

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0009678	J	0.00200	0.000408	mg/L		12/14/23 11:27	12/14/23 14:24	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		12/14/23 11:27	12/14/23 14:24	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		12/14/23 11:27	12/14/23 14:24	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		12/14/23 11:27	12/14/23 14:24	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		12/14/23 11:27	12/14/23 14:24	1
Xylenes, Total	<0.000642	U	0.00200	0.000642	mg/L		12/14/23 11:27	12/14/23 14:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	12/14/23 11:27	12/14/23 14:24	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	12/14/23 11:27	12/14/23 14:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-134765/1-A
Matrix: Water
Analysis Batch: 134750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134765

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 19:45	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		12/12/23 11:12	12/12/23 19:45	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		12/12/23 11:12	12/12/23 19:45	1

QC Sample Results

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 860-134765/1-A
Matrix: Water
Analysis Batch: 134750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134765

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135	12/12/23 11:12	12/12/23 19:45	1
o-Terphenyl	99		70 - 135	12/12/23 11:12	12/12/23 19:45	1

Lab Sample ID: LCS 860-134765/2-A
Matrix: Water
Analysis Batch: 134750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 134765

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			99.9	106.0		mg/L		106	70 - 135		
Diesel Range Organics (Over C10-C28)			99.9	92.33		mg/L		92	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 135
o-Terphenyl	87		70 - 135

Lab Sample ID: LCSD 860-134765/3-A
Matrix: Water
Analysis Batch: 134750

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 134765

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.9	107.2		mg/L		107	70 - 135	1	35
Diesel Range Organics (Over C10-C28)			99.9	97.87		mg/L		98	70 - 135	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 135
o-Terphenyl	76		70 - 135

QC Association Summary

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

GC VOA

Analysis Batch: 68650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36668-1	MW-8	Total/NA	Water	8021B	
880-36668-2	MW-3	Total/NA	Water	8021B	
880-36668-3	MW-4	Total/NA	Water	8021B	
880-36668-4	MW-13D	Total/NA	Water	8021B	
880-36668-5	MW-6	Total/NA	Water	8021B	
880-36668-6	MW-5	Total/NA	Water	8021B	
880-36668-7	MW-12D	Total/NA	Water	8021B	
880-36668-8	MW-11D	Total/NA	Water	8021B	
880-36668-9	MW-9	Total/NA	Water	8021B	
880-36668-10	MW-11S	Total/NA	Water	8021B	
880-36668-11	MW-12S	Total/NA	Water	8021B	
MB 880-68650/39	Method Blank	Total/NA	Water	8021B	
MB 880-68650/8	Method Blank	Total/NA	Water	8021B	
LCS 880-68650/3	Lab Control Sample	Total/NA	Water	8021B	
LCS 880-68650/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-68650/35	Lab Control Sample Dup	Total/NA	Water	8021B	
LCSD 880-68650/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-36668-4 MS	MW-13D	Total/NA	Water	8021B	
880-36668-4 MSD	MW-13D	Total/NA	Water	8021B	

Analysis Batch: 68965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36668-1	MW-8	Total/NA	Water	Total BTEX	
880-36668-2	MW-3	Total/NA	Water	Total BTEX	
880-36668-3	MW-4	Total/NA	Water	Total BTEX	
880-36668-4	MW-13D	Total/NA	Water	Total BTEX	
880-36668-5	MW-6	Total/NA	Water	Total BTEX	
880-36668-6	MW-5	Total/NA	Water	Total BTEX	
880-36668-7	MW-12D	Total/NA	Water	Total BTEX	
880-36668-8	MW-11D	Total/NA	Water	Total BTEX	
880-36668-9	MW-9	Total/NA	Water	Total BTEX	
880-36668-10	MW-11S	Total/NA	Water	Total BTEX	
880-36668-11	MW-12S	Total/NA	Water	Total BTEX	

Analysis Batch: 69084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36668-11	MW-12S	Total/NA	Water	8021B	
MB 880-69084/39	Method Blank	Total/NA	Water	8021B	
MB 880-69094/5-A	Method Blank	Total/NA	Water	8021B	69094
LCS 880-69084/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-69084/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Prep Batch: 69094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-69094/5-A	Method Blank	Total/NA	Water	5035	

GC Semi VOA

Analysis Batch: 130308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36668-1	MW-8	Total/NA	Water	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 130308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36668-2	MW-3	Total/NA	Water	8015 NM	
880-36668-3	MW-4	Total/NA	Water	8015 NM	
880-36668-4	MW-13D	Total/NA	Water	8015 NM	
880-36668-5	MW-6	Total/NA	Water	8015 NM	
880-36668-6	MW-5	Total/NA	Water	8015 NM	
880-36668-7	MW-12D	Total/NA	Water	8015 NM	
880-36668-8	MW-11D	Total/NA	Water	8015 NM	
880-36668-9	MW-9	Total/NA	Water	8015 NM	
880-36668-10	MW-11S	Total/NA	Water	8015 NM	
880-36668-11	MW-12S	Total/NA	Water	8015 NM	

Analysis Batch: 134750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36668-1	MW-8	Total/NA	Water	8015B NM	134765
880-36668-2	MW-3	Total/NA	Water	8015B NM	134765
880-36668-3	MW-4	Total/NA	Water	8015B NM	134765
880-36668-4	MW-13D	Total/NA	Water	8015B NM	134765
880-36668-5	MW-6	Total/NA	Water	8015B NM	134765
880-36668-6	MW-5	Total/NA	Water	8015B NM	134765
880-36668-7	MW-12D	Total/NA	Water	8015B NM	134765
880-36668-8	MW-11D	Total/NA	Water	8015B NM	134765
880-36668-9	MW-9	Total/NA	Water	8015B NM	134765
880-36668-10	MW-11S	Total/NA	Water	8015B NM	134765
880-36668-11	MW-12S	Total/NA	Water	8015B NM	134765
MB 860-134765/1-A	Method Blank	Total/NA	Water	8015B NM	134765
LCS 860-134765/2-A	Lab Control Sample	Total/NA	Water	8015B NM	134765
LCSD 860-134765/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	134765

Prep Batch: 134765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36668-1	MW-8	Total/NA	Water	8015NM Aq Prep	
880-36668-2	MW-3	Total/NA	Water	8015NM Aq Prep	
880-36668-3	MW-4	Total/NA	Water	8015NM Aq Prep	
880-36668-4	MW-13D	Total/NA	Water	8015NM Aq Prep	
880-36668-5	MW-6	Total/NA	Water	8015NM Aq Prep	
880-36668-6	MW-5	Total/NA	Water	8015NM Aq Prep	
880-36668-7	MW-12D	Total/NA	Water	8015NM Aq Prep	
880-36668-8	MW-11D	Total/NA	Water	8015NM Aq Prep	
880-36668-9	MW-9	Total/NA	Water	8015NM Aq Prep	
880-36668-10 - RA	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-36668-10	MW-11S	Total/NA	Water	8015NM Aq Prep	
880-36668-11 - RA	MW-12S	Total/NA	Water	8015NM Aq Prep	
880-36668-11	MW-12S	Total/NA	Water	8015NM Aq Prep	
MB 860-134765/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-134765/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-134765/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 135004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36668-10 - RA	MW-11S	Total/NA	Water	8015B NM	134765
880-36668-11 - RA	MW-12S	Total/NA	Water	8015B NM	134765

Lab Chronicle

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-8
Date Collected: 12/06/23 09:05
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 01:28
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 01:28
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/12/23 20:45
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/12/23 20:45

Client Sample ID: MW-3
Date Collected: 12/06/23 09:45
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 01:55
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 01:55
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/12/23 21:05
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/12/23 21:05

Client Sample ID: MW-4
Date Collected: 12/06/23 10:15
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 02:22
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 02:22
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/12/23 22:26
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/12/23 22:26

Client Sample ID: MW-13D
Date Collected: 12/06/23 11:00
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 06:49
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 06:49
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/12/23 22:46
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/12/23 22:46

Lab Chronicle

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-6
Date Collected: 12/06/23 11:40
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 07:15
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 07:15
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/12/23 23:06
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/12/23 23:06

Client Sample ID: MW-5
Date Collected: 12/06/23 12:10
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 07:41
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 07:41
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/12/23 23:26
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/12/23 23:26

Client Sample ID: MW-12D
Date Collected: 12/06/23 12:45
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 08:08
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 08:08
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/12/23 23:47
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/12/23 23:47

Client Sample ID: MW-11D
Date Collected: 12/06/23 13:25
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 08:34
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 08:34
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/13/23 00:07
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/13/23 00:07

Lab Chronicle

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Client Sample ID: MW-9

Date Collected: 12/06/23 14:10
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 09:01
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 09:01
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/13/23 00:27
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/13/23 00:27

Client Sample ID: MW-11S

Date Collected: 12/06/23 15:05
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	68650	MNR	EET MID	12/09/23 10:46
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/09/23 10:46
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/14/23 00:42
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/13/23 00:47
Total/NA	Prep	8015NM Aq Prep	RA		134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM	RA	1	135004	T1S	EET HOU	12/14/23 00:42

Client Sample ID: MW-12S

Date Collected: 12/06/23 15:35
Date Received: 12/07/23 16:45

Lab Sample ID: 880-36668-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	68650	MNR	EET MID	12/09/23 09:27
Total/NA	Analysis	8021B		100	69084	MNR	EET MID	12/15/23 06:08
Total/NA	Analysis	Total BTEX		1	68965	SM	EET MID	12/15/23 06:08
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	12/14/23 01:02
Total/NA	Prep	8015NM Aq Prep			134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM		1	134750	TTD	EET HOU	12/13/23 01:07
Total/NA	Prep	8015NM Aq Prep	RA		134765	DR	EET HOU	12/12/23 11:12
Total/NA	Analysis	8015B NM	RA	1	135004	T1S	EET HOU	12/14/23 01:02

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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
Total BTEX		Water	Total BTEX

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	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: South Carslbad CS

Job ID: 880-36668-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36668-1	MW-8	Water	12/06/23 09:05	12/07/23 16:45
880-36668-2	MW-3	Water	12/06/23 09:45	12/07/23 16:45
880-36668-3	MW-4	Water	12/06/23 10:15	12/07/23 16:45
880-36668-4	MW-13D	Water	12/06/23 11:00	12/07/23 16:45
880-36668-5	MW-6	Water	12/06/23 11:40	12/07/23 16:45
880-36668-6	MW-5	Water	12/06/23 12:10	12/07/23 16:45
880-36668-7	MW-12D	Water	12/06/23 12:45	12/07/23 16:45
880-36668-8	MW-11D	Water	12/06/23 13:25	12/07/23 16:45
880-36668-9	MW-9	Water	12/06/23 14:10	12/07/23 16:45
880-36668-10	MW-11S	Water	12/06/23 15:05	12/07/23 16:45
880-36668-11	MW-12S	Water	12/06/23 15:35	12/07/23 16:45

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Received by OCD: 6/10/2024 12:12:43 PM

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Wo

880-36668 Chain of Custody

Project Manager:	Beaux Jennings	Bill to: (if different)	accounting@ensolum.com
Company Name:	Ensolum	Company Name:	
Address:	601 N Marienfeld st #400	Address:	
City, State ZIP:	Midland, Tx 79701	City, State ZIP:	
Phone	210-219-8858	Email	Bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad CS	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location:	Carlsbad, NM	Due Date:	
Sampler's Name:	J. Gable	TAT starts the day received by the lab, if received by 4.30pm	
PO #			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.6	
Total Containers:		Corrected Temperature:	1.8	

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX 8021	Parameters: TPH GRO, DRO, MRO 8015	Sample Comments
MW-8	W	12/6/23	0905	-	G	5	X	X	
MW-3			0945	-					
MW-4			1015	-					
MW-13D			1100	-					
MW-6			1140	-					
~~MW-12D~~ MW-5			1210	-					
MW-12D			1245	-					
MW-11D			1325	-					
MW-9			1410	-					
MW-11S	W	12/6/23	1505	-	G	5	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As B
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As

Cole-Parmer CUSTODY SEAL

Person Collecting Sample J. Gable (signature) Sample No 11

Date Collected 12/6/23 Time Collected 1600

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurr of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xe

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			12/7/23 1645	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev 2020.2

Released to Imaging: 7/16/2024 3:56:32 PM
Received by OCD: 6/10/2024 12:12:43 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 3

Loc: 880
36668

www.xenco.com Page 1

Project Manager:	Beaux Jennings	Bill to: (if different)	Accounting@ensolum.com
Company Name:	Ensolum	Company Name:	
Address:	601 N Marienfeld st #400	Address:	
City, State ZIP:	Midland, Tx 79701	City, State ZIP:	
Phone:	210-219-8858	Email:	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad CS	Turn Around	
Project Number:	03B1226001	☒ Routine ☐ Rush	
Project Location	Carlsbad, NM	Due Date:	
Sampler's Name:	J. Gable	TAT starts the day received by the lab, if received by 4.30pm	
PO #			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.6
Total Containers:		Corrected Temperature:	1.9

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH GRO, DRO, MRO 8015
MW-12s	W	12/6/23	1535	-	G	5		X	X

NFG

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/7/23 1645	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins | Environment Testing

12/18/2023

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 880-8641 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana; NELAP Texas		Job #: 880-36668-1
Address: 4145 Greenbriar Dr	Due Date Requested: 12/13/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: South Carslbad CS	Project #: 88000022			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

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)	8016MOD_NM/8016NM_Aq_Prep Full TPH	8015MOD_Calc	Special Instructions/Note:
MW-8 (880-36668-1)	12/6/23	09:05 Central		Water	X	X	
MW-3 (880-36668-2)	12/6/23	09:45 Central		Water	X	X	
MW-4 (880-36668-3)	12/6/23	10:15 Central		Water	X	X	
MW-13D (880-36668-4)	12/6/23	11 00 Central		Water	X	X	
MW-6 (880-36668-5)	12/6/23	11.40 Central		Water	X	X	
MW-5 (880-36668-6)	12/6/23	12:10 Central		Water	X	X	
MW-12D (880-36668-7)	12/6/23	12:45 Central		Water	X	X	
MW-11D (880-36668-8)	12/6/23	13.25 Central		Water	X	X	
MW-9 (880-36668-9)	12/6/23	14.10 Central		Water	X	X	

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 laboratory does not currently maintain accreditation in the State of Origin isted above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other 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 Eurof

Temp IR ID HOU-369
C/F -0 0 4.9
Corrected Temp 4.9

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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
				12/9/23 1006	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

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Received by OCD: 6/10/2024 12:12:43 PM

Released to Imaging: 7/16/2024 3:56:32 PM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 880-8641 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Louisiana, NELAP Texas		Job #: 880-36668-1
Address: 4145 Greenbriar Dr	Due Date Requested: 12/13/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: South Carslbad CS	Project #: 88000022			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

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)	8015MOD_NM/8015NM_Aq_Prep Full TPH	8015MOD_Calc	Special Instructions/Note:
MW-11S (880-36668-10)	12/6/23	15:05 Central		Water	X	X	
MW-12S (880-36668-11)	12/6/23	15:35 Central		Water	X	X	

Temp: IR ID HOU-369
C/F -0 0 4.9
Corrected Temp: 4.9

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	☐ Return To Client ☐ Disposal By Lab ☐ 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
					12/9/23 10:06	Eurofins
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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Received by OCD: 6/10/2024 12:12:43 PM
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Released to Imaging: 7/16/2024 3:56:32 PM
12/18/2023

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-36668-1
SDG Number: Carlsbad NM

Login Number: 36668
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-36668-1
SDG Number: Carlsbad NM

Login Number: 36668
List Number: 2
Creator: Torres, Sandra

List Source: Eurofins Houston
List Creation: 12/09/23 12:34 PM

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	4.9
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	

ENSOLUM

APPENDIX D

Supporting Documentation

Beaux Jennings

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, December 5, 2023 4:11 PM
To: Beaux Jennings
Cc: Bratcher, Michael, EMNRD; Buchanan, Michael, EMNRD
Subject: RE: [EXTERNAL] South Carlsbad Compressor Station (OCD Incident # nAPP2134932726)

[**EXTERNAL EMAIL**]

Good afternoon Beaux,

Thanks for the notice! It has been received.

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, December 5, 2023 2:24 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] South Carlsbad Compressor Station (OCD Incident # nAPP2134932726)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

On behalf of Enterprise Field Services, LLC, Ensolum will be conducting quarterly groundwater monitoring at the South Carlsbad Compressor Station on Wednesday, December 6th and Thursday, December 7th.

If you have any questions, please let us know.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

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

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

CONDITIONS

Action 352597

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 352597
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the submittal(s): 1, 2 and 3 for years 2021, 2022, 2023 at South Carlsbad Compressor Station: content satisfactory 1. Continue to recover PSH by utilizing pneumatic recovery systems in monitoring wells MW-2 and MW-13S as scheduled. 2. Continue to conduct groundwater monitoring at the site on a quarterly basis, and evaluate PSH and DPH plume stability in groundwater. 3. Modify ST2 AP, if one has been submitted, if alternative adjustment to a remediation plan is necessary. 4. Propose modification to an abatement option if field evaluations warrant. 5. Submit the 2024 annual report to OCD via electronic submission by April 1, 2025.	7/16/2024