



GAS MITIGATION MONTHLY REPORT - JULY 2023

Property:

**South Hobbs G/SA Unit
Unit F, Section 5, Township 19S, Range 38E
Latitude 32.690683, Longitude -103.173158
Lea County, New Mexico**

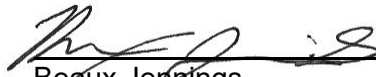
**New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981
Incident ID No. nAPP2227033082**

February 2, 2024

Prepared for:

**Occidental Permian LTD
1600 Gehrig Dr.
Midland, Texas 79706
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Prepared by:


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ENSOLUM

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South Hobbs G/SA Unit
Unit F, Section 5, Township 19S, Range 38E
Latitude 32.690683, Longitude -103.173158
Lea County, New Mexico

New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981
Incident ID No. nAPP2227033082

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Occidental Permian LTD (OXY)
Site Name:	South Hobbs G/SA Unit Operations (Site)
Location:	Unit F, Section 5, Township 19 South, Range 38 East Latitude 32.690683, Longitude -103.173158 Lea County, New Mexico
Property Owner:	OXY
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) New Mexico Oil Conservation Division (NMOCD) Incident ID No. nAPP2227033082 Order No. R-4934-F Case No. 14981

This Gas Mitigation Monthly Report - July 2023 summarizes activities subsequent to the *Gas Mitigation Monthly Report - November 2021*, dated December 14, 2021, the *Gas Mitigation Monthly Report - December 2021*, dated January 20, 2022, the *Gas Mitigation Monthly Report - January 2022*, dated March 1, 2022, the *Gas Mitigation Monthly Report - February 2022*, dated March 24, 2022, the *Gas Mitigation Monthly Report - March 2022*, dated May 4, 2022, the *Gas Mitigation Monthly Report - April 2022*, dated July 11, 2022, the *Gas Mitigation Monthly Report - May 2022*, dated July 22, 2022 and the *Gas Mitigation Monthly Report - June 2022*, dated July 22, 2022, the *Gas Mitigation Monthly Report - July 2022*, dated September 1, 2022, the *Gas Mitigation Monthly Report - August 2022*, dated December 6, 2022, the *Gas Mitigation Monthly Report - September 2022*, dated December 6, 2022, the *Gas Mitigation Monthly Report - October 2022*, dated January 20, 2022, the *Gas Mitigation Monthly Report - December 2022*, dated March 9, 2023, the *Gas Mitigation Monthly Report - January 2023*, dated March 9, 2023, the *Gas Mitigation Monthly Report – February 2023*, dated June 20, 2023, the *Gas Mitigation Monthly Report – March 2023*, dated June 20, 2023, the *Gas Mitigation Monthly Report - April 2023*, dated June 20, 2023, the *Gas Mitigation Monthly Report - May 2023*, dated July 31, 2023, and the *Gas Mitigation Monthly Report - June 2023*, dated July 31, 2023. All wells are located within operations that are part of the South Hobbs Grayburg/San Andres Unit (SHU) Field in the southwestern area of the City of Hobbs, Lea County, New Mexico. Collectively, the Levey water well (Levey Well) and the two monitoring wells (MW-1 and MW-2) are referred to as the “Site”.

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OXY has investigated groundwater and oil and gas operation well conditions in the area of the Site. A Site Map, which indicates the approximate locations of the Levey Well and monitoring wells MW-1 and MW-2 in relation to pertinent structures and general Site boundaries, is included as **Figure 1 in Appendix A.**

On June 30, 2019, elevated pressure was observed at the Levey Well. At the request of the New Mexico Oil Conservation Division (NMOCD), localized area wells were “shut in” from operational use. Over time, the pressure being observed at the Levey Well declined until pressure was no longer recorded. Observations and water analysis of the Levey water well did identify free gas in the well bore; however, pressure from the underlying groundwater-bearing zone was no longer present. Operational data was analyzed as part of the area wide assessment and adjacent wells investigated as potential sources for the gas infiltration. During maintenance operations at SHU #183, located approximately 575 feet southwest of the Levey Well, the SHU #183 well string was pulled, and pressures measured for proof of casing integrity. During these operations, SHU #183 was found to have a casing leak, which is believed to be the source of the pressure observed at Levey well. In response, OXY plugged the SHU #183 well to the surface. No other anomalies were observed in the adjacent area oil and gas wells. After SHU #183 was plugged, OXY drilled a nearby replacement well. This replacement well, designated as SHU #297, is currently operational and shows no concerns of free gas migration.

In February of 2020, permission was obtained from the NMOCD to drill two monitoring wells (MW-1 and MW-2) for analysis and observation purposes. Monitoring well MW-1 was installed in the vicinity of the Levey Well and monitoring well MW-2 was installed in the vicinity of SHU #183.

During initial pre-start up background sampling of the Levey Well, MW-1 and MW-2 on two separate events, May 25th and June 20th of 2020, gas with lower explosive limits (LEL's) at or over 60% were observed in the Levey Well and monitoring well MW-2. This finding was consistent with previous analysis and findings within the Levey Well and not an unexpected result as the previous contributions of gas from the SHU #183 had been sufficient to result in pressure at the surface through the Levey Well.

OXY's groundwater monitoring program included the collection of a groundwater sample from each monitoring well (MW-1 and MW- 2). The monitoring wells were gauged and sampled on May 26, June 30, August 20, October 23, November 24, December 18, 2020, and weekly thereafter. The Levey Well has been sampled consistently from December 6, 2019, to July 31, 2023. The groundwater samples collected from the monitoring wells (MW-1 and MW-2) were analyzed for total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) utilizing Environmental Protection Agency (EPA) Method 8015M, volatile organic compounds (VOCs) utilizing EPA Method SW-846 #8260 (full list), carbon dioxide utilizing Standard Method 4500 CO₂ C, dissolved sulfide utilizing EPA Method SW-846 #376.2, chloride using EPA Method SW-846 #300.0 and pH utilizing EPA Method SW-846 #150.1. The groundwater samples collected from the Levey Well were analyzed for VOCs, recoverable metals per ICP by EPA 200.7, inorganic anions by EPA 300/300.1, pH by SM4500-H, total dissolved solids (TDS) by SM2540C, alkalinity by SM2320B and cation-anion balance by SM1030E.

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During the July 2023 groundwater sampling event the groundwater samples did not exhibit constituent concentrations above New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (GQSs), with the exception of benzene, chloride, Nitrite as N and TDS. Benzene concentrations ranged from 0.0131 milligrams per liter (mg/L) to 0.0223 mg/L in monitoring well MW-2. One benzene exceedance of 0.00659 mg/L was also observed in the Levey Well. The Levey Well also showed one exceedance of chloride with a concentration of 300 mg/L. In addition, several Nitrite as N exceedances ranging from 1.08 mg/L to 4.20 mg/L were observed in the Levey Well and monitoring wells MW-1 and MW-2. TDS concentrations ranged from 1,080 mg/L to 1,880 mg/L in the Levey Well. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). The groundwater analytical summary tables are included in **Appendix B**.

OXY utilized automated processes to compile and monitor dates related to the SHU localized wells to ensure tracking of production and injection activities as related to the re-start of these area operations. No anomalies were observed in the area oil and gas wells that could contribute free gas into the groundwater-bearing zone.

To mitigate potential exposures, the Levey residence was purchased by OXY and remains unoccupied. A passive vent was installed on the Levey Well to mitigate safety and explosivity concerns for the residential and work area. There has been no detectable build-up of pressure in the Levey Well or monitoring wells MW-1 and MW-2. Hydrogen sulfide (H₂S) has not been detected in any of the three forementioned wells since July 15, 2020. All detections of H₂S prior to July 15, 2020 were within the well bore. No H₂S above permissible exposure limits was observed outside of the well bores.

OXY installed pressure reading charts at the Levey Well to measure the potential for any returning pressure at the well. These charts measure pressure 24 hours a day and show that no pressure has returned to the Levey Well. Monitoring wells MW-1 and MW-2 were physically monitored for the presence of gas and pressure on several dates from 7/1/2020 to 7/31/2023, with no pressure observed in either monitoring well. The pressure reading chart available for July 2023 is included in **Appendix D**.

The data indicates that pressure sourced from SHU #183 contributed to the infiltration of free gas into the red beds just beneath the groundwater-bearing zone, creating a pressurized pool of gas that traveled to the Levey Well. Once SHU #183 was plugged, the pressure source was removed from the red beds and overlying groundwater-bearing zone and the remaining free gases below remain pooling within the red bed underlying the groundwater-bearing zone. This is supported by the data described above and is consistent with findings reported in two reports, one co-authored and supplied by Lisa Molofsky of GSI Environmental Inc. The first is "Purging and other sampling variables affecting dissolved methane concentration in water supply wells", and the second "Factors affecting the variability of stray gas concentration and composition in groundwater" authored by A.W. Gorody, referenced below. The reports state:

As free-phase gas spreads vertically and/or laterally from a source of release, it can become trapped beneath low permeability sediments (e.g., the “red beds” which separate the overlying Ogallala aquifer from the underlying Santa Rosa). Irregularities in the base topography of these barriers can result in discretized pools of free-phase gas. In many ways, this trapping and accumulation of free-phase gases beneath impermeable units is analogous to the development of structural traps that form in conventional oil and gas reservoirs. This phenomenon can also be viewed as the conceptual inverse of a chlorinated solvent release (a dense NAPL, or “DNAPL”) in which the dense liquid can migrate downward through the groundwater via available pathways, until encountering a resistant layer, where the dense liquid pools and accumulates.

In water supply wells, free-phase gas entry is most likely to occur when water levels are lowered in a well by pumping or drought, because this reduces the pressure head resisting gas entry from the formation into the well (Gorody 2012, Molofsky et al. 2018). This may allow free-phase gas to enter the well from one unit (e.g., red bed), while water is primarily originating from another (e.g., the Ogallala aquifer). When the two phases (free-phase gas from the red bed and groundwater from the Ogallala) mix in the water well, there is relatively little time for equilibration under pumping conditions; consequently, dissolved gas concentrations may be very low even though free-phase gas is observed in the well headspace.

These studies and OXY’s related findings are that the remaining free gas beneath portions of the Site is pooled within the red beds and the overlying geologic pressure is such that it is confining the free gas. The free gas observed in the Levey Well and monitoring well MW-2 well bores are traveling through these conduits to near surface but lack the pressure to release from the subsurface as the additional pressure from SHU #183 has been eliminated. This coupled with the finding that there is little mixing of constituents of gases into the dissolved phase within the adjacent groundwater supports the understanding that the gases are remaining beneath the water interface and only traveling up to surface when the relative pressure allows it to do so, rather than mixing with the water source.

The data indicates that the current free gas in the subsurface has reached a point of equilibrium and, without influence, is stable. To mobilize the free gas, a pressure change was proposed to release the free gas pool from the subsurface red bed, as described below in Section 1.3.

1.2 Groundwater Recovery – Levey Well

As of July 1, 2021, the Levey Well has run full time and recovered groundwater is transferred via flowline to a nearby tank for proper disposal. The groundwater recovered from the Levey Well during July 1 - 31, 2023 was approximately 382,451 gallons.

1.3 Gas Recovery – Levey Well

OXY conducted one vacuum recovery event during the month of July 2023 with positive results as shown on **Table 4** in **Appendix B**. The purpose of this event was to attach a vacuum pump truck to the Levey Well, creating a vacuum on the wellbore, and displacing the underlying water releasing the overlying pressure restraining the free gas pool, and releasing it to the surface. This process will continue into August 2023 once every two weeks until the sampling results of the air are minimal after displacement of the overlying pressure, or the process proves to become ineffective.

2.0 AIR AND GROUNDWATER MONITORING

2.1 Air Sampling Program

Levey Well

The air samples from July 31, 2023, were taken prior to the vacuum recovery event utilizing Summa® canisters. Upon arrival at the Site, the Levey Well is turned off and allowed to stabilize for approximately one hour. An air sample is taken after one hour of the Levey Well stabilization, prior to initiating the vacuum recovery event. Water was not recovered during the vacuum recovery event.

The Summa® canisters were shipped under proper chain-of-custody to Pace Analytical Laboratory in Mount Juliet, TN for analysis of volatile organic compounds (VOCs) by Method TO-15. Laboratory analytical results are summarized in **Table 4** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets from the July 2023 sampling event are provided in **Appendix C**.

2.2 Groundwater Sampling Program

Groundwater sampling events were conducted each week on the Levey Well and monitoring wells MW-1 and MW-2. The groundwater sampling program followed the requirements from NMOCD and consists of the following:

Levey Well

As of July 1, 2021, the Levey water well has run full time. The Levey well recovered groundwater is transferred via flowline to a nearby tank battery for proper disposal. Prior to sample collection, the Levey Well is turned off and allowed to stabilize for approximately one hour prior to sampling. Once the Levey Well is properly purged and readings from the AquaTROLL 500 stabilize, a groundwater sample is collected.

The groundwater samples collected from the Levey Well were analyzed for VOCs, recoverable metals per ICP by EPA 200.7, inorganic anions by EPA 300/300.1, pH by SM4500-H, TDS by SM2540C, alkalinity by SM2320B and cation-anion balance by SM1030E.

Monitoring Wells MW-1 and MW-2

Prior to sample collection, the depth to fluids in each monitoring well (MW-1 and MW-2) are gauged using a water level meter capable of detecting groundwater up to 0.01 feet. Each monitoring well is then sampled utilizing micro-purge low-flow sampling techniques. Subsequent to the completion of the micro-purge process, one groundwater sample is collected from each monitoring well.

The groundwater samples collected from monitoring wells MW-1 and MW-2 were analyzed for TPH GRO, TPH DRO and ORO utilizing EPA Method 8015M, VOCs utilizing EPA Method SW-846 #8260, carbon dioxide utilizing Standard Method 4500, dissolved sulfide utilizing EPA Method SW-846 #376.2, chloride using EPA Method SW-846 300.0 and pH utilizing EPA Method SW-846 #150.1.

Low flow refers to the velocity with which groundwater enters the pump intake and is imparted to the formation water in the immediate vicinity of the well screen. The objective is to pump in a manner that minimizes stress (drawdown) to the system, to the extent practical, taking into account established Site sampling objectives. Flow rates on the order of 0.1 to 0.5 liters per minute (l/min) will be maintained during sampling activities, using dedicated or decontaminated sampling equipment.

The groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements during purging are taken every three to five minutes. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for three successive readings.

Groundwater samples were collected in laboratory supplied containers, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Eurofins Midland in Midland, Texas under proper chain-of-custody procedures.

Laboratory analytical results are summarized in **Tables 1** through **Table 3** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

3.0 DATA EVALUTATION

3.1 Air Samples

Gas mitigation activities at the Levey Well began on November 8, 2021, and will continue on a bi-weekly basis through August 2023. Based on the concentrations observed in the Levey Well air samples, the vacuum recovery events are drawing the free gas over to the Levey Well. Prior to each vacuum recovery event, an air sample is taken to give a representative snapshot of static conditions of gas in the subsurface. Elevated concentrations of cyclohexane, heptane, n-hexane, 2-propanol, m&p-xylene, o-xylene, and/or TPH were observed prior to the initiation of each vacuum recovery event.

Air samples are also collected on a bi-weekly basis approximately one week subsequent to the vacuum recovery event. During each of the bi-weekly air sampling events, elevated concentrations of cyclohexane, heptane, n-hexane, 2-propanol, m&p-xylene, o-xylene, and/or TPH were observed inside the Levey water well casing. These results again indicate that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well.

3.2 Groundwater Samples

Ensolum compared the laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the July 2023 groundwater samples collected from the Levey Well and monitoring wells MW-1 and MW-2 to the New Mexico WQCC GQSS. The results of the groundwater sample analyses are summarized in **Table 1** through **Table 3** of **Appendix B**. All analytical results were below the WQCC GQSSs, with the exception of the analytes, as discussed below.

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Levey Well

TDS concentrations of 1,080 mg/L to 1,880 mg/L were observed during the July 2023 sampling. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). Specifically, for the 20 water supply wells sampled by the USGS in Southern Lea County with TDS analyses, the median TDS concentration was 722 mg/L, and the 75th percentile TDS concentration was 1,953 mg/L.

The Levey Well sampling first began on December 6, 2019. Through mitigation activities, including groundwater recovery and vacuum recovery events, the benzene concentration in the Levey Well has significantly decreased over time, with the exception of December 29, 2021, which had a benzene analytical result of 0.00611 mg/L, the January 19, 2022, which had a benzene analytical result of 0.00684 mg/L, the March 9, 2022, which had a benzene analytical result of 0.00552 mg/L, the January 25, 2023, which had a benzene analytical result of 0.00589 mg/L and the July 27, 2023, which had a benzene analytical result of 0.00659 mg/L, which exceeds the WQCC GQS of 0.005 mg/L. This slight rise in concentration is indicative that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well. Benzene concentrations over time are graphed and included in **Appendix A**, showing the significant decrease of benzene in the Levey Well over time.

The Levey Well also showed an exceedance of chloride with a concentration of 300 mg/L as well as a Nitrite as N with a concentration of 1.08 mg/L and 2.07 mg/L for the July 2023 sampling event.

Monitoring Well MW-1 and MW-2

The groundwater samples collected from monitoring well MW-1 did not exhibit benzene concentrations above the WQCC GQS of 0.005 mg/L. The groundwater samples collected from monitoring well MW-2 exhibited benzene concentrations ranging from 0.0131 mg/L to 0.0223 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

In addition, several Nitrite as N exceedances ranging from 1.38 mg/L to 4.20 mg/L were observed in monitoring wells MW-1 and MW-2, which is above the WQCC GQS of 1.0 mg/L.

All other VOC concentrations were either below the laboratory reporting limit or below the WQCC GQS protective concentrations. All laboratory reporting limits were below the WQCC GQS protective concentrations, indicating a lack of dissolved phase gas infiltration into the localized groundwater.

4.0 RECOMMENDATIONS

OXY has demonstrated over time that the SHU #290 and the surrounding oil and gas operations were and are not a contributor to the previous related pressure observed in the Levey Well. This has been demonstrated by over four months of readings (**Appendix D**) which show that the pressures and gas readings are very consistent with pre-injection background, including, but not limited to carbon dioxide. The plugging of the SHU #183 well has shown to be effective in discontinuing the source of free gas related to the Levey water well.

OXY requests from the NMOCD moving forward in 2024 to:

- **Plug and abandon the Levey Well and monitoring well MW-1;**
- **Remove impacted groundwater utilizing monitoring well MW-2 full time. The recovered groundwater will be transferred via flowline to a nearby tank for proper disposal. Groundwater removal will continue until acceptable levels achieving compliance expectations are complete;**
- **Implement monthly sampling for water and air on monitoring well MW-2 moving forward in 2024;**
- **Utilizing monitoring well MW-2, continue to remove free gas accumulations from the underlying red bed and groundwater-bearing zone on a bi-weekly basis to acceptable levels of removal to achieve compliance expectations. The air sampling process performed at the Levey Well will continue utilizing monitoring well MW-2, as described in Section 2.1; and**
- **Continue to monitor MW-2 utilizing daily pressure checks for significant changes in pressure, which could indicate a secondary source, until compliance of free gas removal is achieved.**

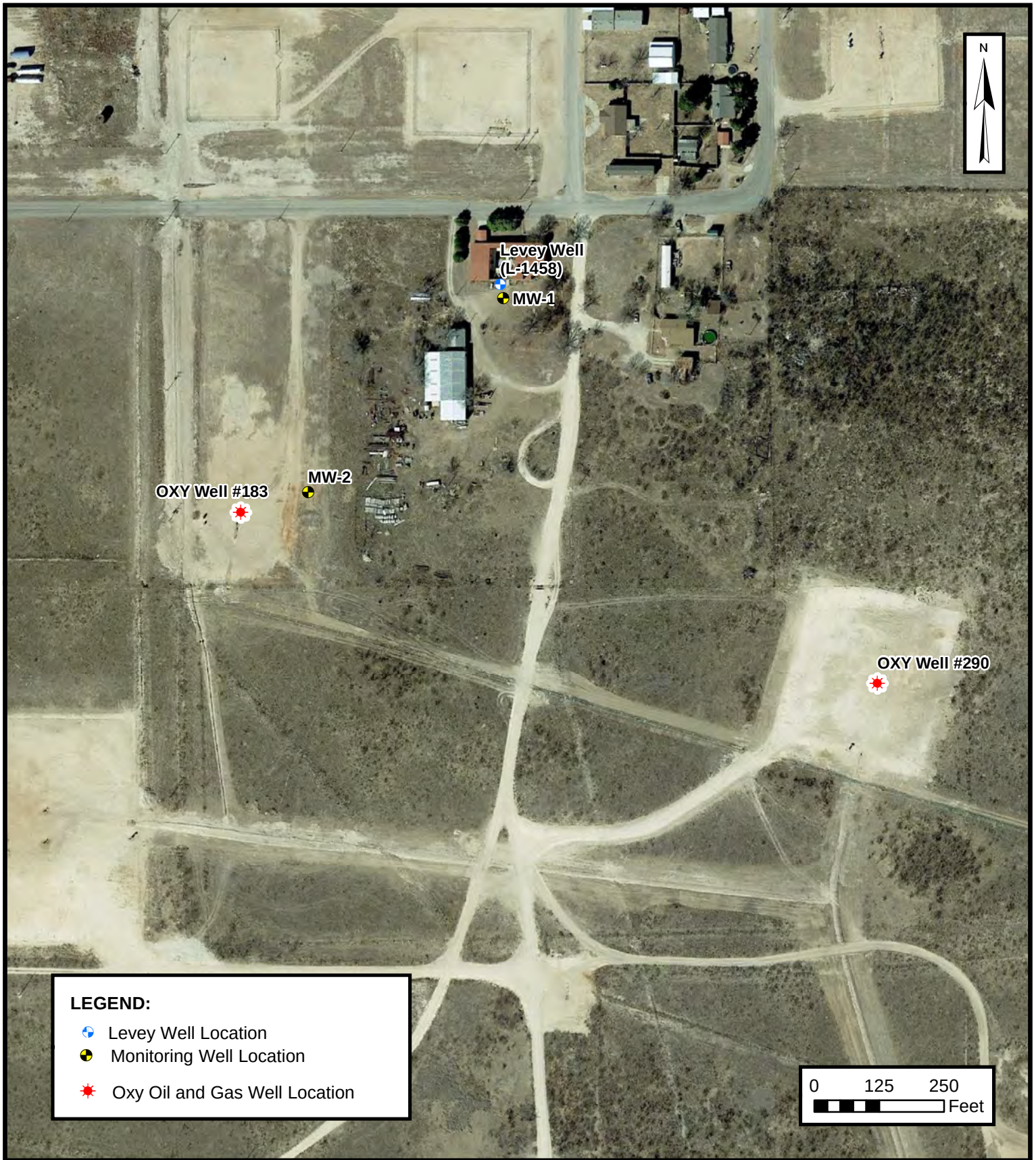
5.0 REFERENCES

- GSI Environmental Inc. Preliminary Draft -Results of Water Supply Well Sampling and Investigation. November 2019. Hobbs New Mexico Municipal Code, Title 13.04.017. Accessed Sept. 2020.
- New Mexico Environment Department. 2018. 20.6.2 NMAC: Title 20 (Environmental Protection), Chapter 6 (Water Quality), Part 2 (Ground and Surface Water Protection). Amended December 11th, 2019.
- Nicholson, Jr. A. and A. Clebsch, Jr. 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. United States Geological Survey Ground-Water Report 6. Prepared in cooperation with the New Mexico Institute of Mining and Technology, State Bureau of Mines and Mineral Resources Division and the New Mexico State Engineer.
- Gorody, A.W., 2012. Factors affecting the variability of stray gas concentration and composition in groundwater. Environ. Geosci. 19, 17–31. <https://doi.org/10.1306/eg.12081111013>.
- Molofsky, L.J., Richardson, S.D., Gorody, A.W., Baldassare, F., Connor, J.A., McHugh, T.E., Smith, A.P., Wylie, A.S., Wagner, T., 2018. Purging and other sampling variables affecting dissolved methane concentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

Figures and Graphs



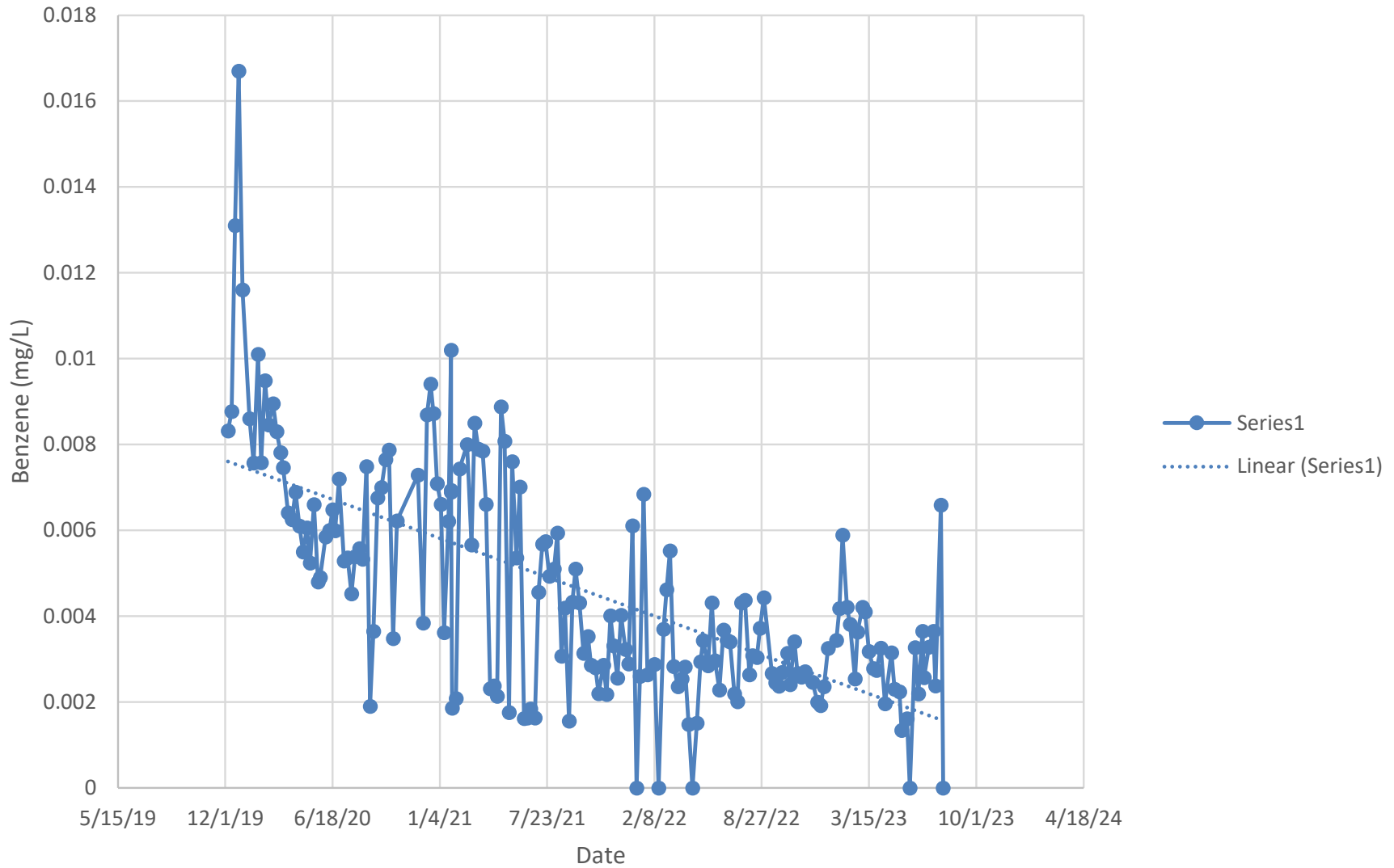
SITE MAP

OCCIDENTAL PERMIAN LTD
S HOBBS G/SA UNIT
Unit F, Sec 5, T19S, R38E, Hobbs, New Mexico
32.690683° N, 103.173158° W
PROJECT NUMBER: 03B1417002

FIGURE
1



Levey Well Benzene Over Time





APPENDIX B

Tables

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	12/6/2019	0.00832	0.0708	0.0296	0.0242	0.129	0.153	<0.0500	0.00151	0.00206	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00138	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0126	<0.0100	0.00566	<0.00100	<0.00100	0.0358	0.0106
	12/13/2019	0.00877	0.0654	0.0271	0.0233	0.121	0.144	<0.0500	0.00118	0.00171	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00112	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0112	<0.0100	0.00470	<0.00100	<0.00100	0.0315	0.00944
	12/19/2019	0.0131	0.0861	0.0385	0.0318	0.170	0.202	0.0125 J	0.00187	0.00257	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00173	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0170	<0.00200	0.00747	<0.000228	<0.000162	0.0469	0.0144
	12/26/2019	0.0167	0.112	0.0514	0.0459	0.210	0.256	<0.0500	0.00211	0.00320	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00183	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0235	<0.0100	0.00934	<0.00100	<0.00100	0.0672	0.0168
	1/2/2020	0.0116	0.0644	0.0551	0.0805	0.232	0.313	<0.0500	0.00231	0.00164	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00127	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0107	0.0120	0.00544	<0.00100	0.00243	0.0377	0.0106
	1/15/2020	0.00860	0.0528	0.0318	0.0219	0.119	0.141	<0.0500	<0.00100	0.00259	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0148	<0.0100	0.0104	<0.00100	<0.00100	0.0547	0.0172
	1/23/2020	0.00757	0.0462	0.0318	0.0224	0.119	0.141	<0.0500	0.00233	0.00295	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00180	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0158	<0.0100	0.0166	<0.00100	<0.00100	0.103	0.0300
	1/31/2020	0.0101	0.0567	0.0462	0.0385	0.166	0.205	<0.500	<0.0100	<0.0100	0.0438	<0.00100	<0.0100	NA	0.0343	0.0344	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	0.0584	0.0262	<0.100	0.0458	<0.0100	<0.0100	0.323	0.0847
	2/6/2020	0.00758	0.0489	0.0306	0.0242	0.116	0.140	<0.0500	0.00234	0.00299	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00165	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0174	<0.0100	0.0237	<0.00100	<0.00100	0.285	0.0451
	2/13/2020	0.00949	0.0498	0.0397	0.0337	0.145	0.179	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00251	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0251	<0.0100	0.0450	<0.00100	<0.00100	0.349	0.0898
	2/20/2020	0.00846	0.0326	0.0313	0.0248	0.113	0.138	<0.0500	<0.00100	0.00407	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00229	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0208	<0.0100	0.0431	<0.00100	<0.00100	0.322	0.0918
	2/28/2020	0.00895	0.0351	0.0374	0.0251	0.124	0.149	<0.250	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.0250	<0.00500	<0.00500	<0.0250	0.0249	<0.0500	0.0488	<0.00500	<0.00500	0.358	0.0989
	3/6/2020	0.00830	0.0313	0.0346	0.0228	0.114	0.137	<0.0500	0.00374	0.00467	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00254	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0231	<0.0100	0.0472	<0.00100	<0.00100	0.378	0.0948
	3/13/2020	0.00781	0.0302	0.0330	0.0203	0.109	0.129	<0.0500	0.00153	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00247	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0224	<0.0100	0.0428	<0.00100	<0.00100	0.277	0.0875
	3/18/2020	0.00746	0.0279	0.0304	0.0174	0.0981	0.116	<0.0500	0.00311	0.00400	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00224	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0199	<0.0100	0.0365	<0.00100	<0.00100	0.275	0.0777
	3/27/2020	0.00641	0.0151	0.0247	0.0132	0.0737	0.0869	<0.0500	0.00122	0.00345	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00189	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0166	<0.0100	0.0336	<0.00100	<0.00100	0.261	0.0721
	4/3/2020	0.00625	0.0129	0.0250	0.0130	0.0745	0.0875	<0.0500	0.00120	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00209	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0174	<0.0100	0.0363	<0.00100	<0.00100	0.273	0.0756
	4/10/2020	0.00689	0.0327	0.0277	0.0159	0.0924	0.108	<0.0500	0.00253	0.00338	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00188	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0171	<0.0100	0.0300	<0.00100	<0.00100	0.264	0.0580
	4/17/2020	0.00610	0.0258	0.0253	0.0141	0.0814	0.0955	<0.0500	0.00238	0.00321	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00175	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0164	<0.0100	0.0280	<0.00100	<0.00100	0.220	0.0562
	4/24/2020	0.00550	0.0241	0.0225	0.0125	0.0756	0.0881	<0.0500	<0.00100	0.00297	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00179	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0148	<0.0100	0.0251	<0.00100	<0.00100	0.199	0.0526
	5/1/2020	0.00606	0.0277	0.0237	0.0129	0.0773	0.0902	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00159	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0143	<0.0100	0.0242	<0.00100	<0.0100	0.185	0.0513
	5/7/2020	0.00524	0.0168	0.0211	0.0108	0.0655	0.0763	<0.0500	<0.00100	0.00306	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00171	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0138	<0.0100	0.0270	<0.00100	&lt		

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2021	0.00661	0.0494	0.0239	0.0141	0.0930	0.107	<0.0500	<0.00100	0.00233	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00140	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0122	<0.0100	0.00710	<0.00100	<0.00100	0.0334	0.0113
	1/12/2021	0.00362	0.0206	0.0168	0.00849	0.0547	0.0632	<0.0500	0.00159	0.00278	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00157	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00959	<0.00100	<0.00100	0.0540	0.0174
	1/20/2021	0.00621	0.0383	0.0245	0.0137	0.0884	0.102	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00159	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0135	<0.0100	0.00920	<0.00100	<0.00100	0.0470	0.0152
	1/25/2021	0.0102	0.0717	0.0337	0.0195	0.130	0.150	<0.0500	0.00167	0.00287	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00162	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0162	<0.0100	0.00914	<0.00100	<0.00100	0.0455	0.0149
	1/25/2021	0.00689	0.0353	0.0243	0.0113	0.0733	0.0846	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0127	<0.0100	0.0115	<0.00100	<0.00100	0.0687	0.0205
	1/25/2021	0.00693	0.0342	0.0251	0.0113	0.0737	0.0850	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00146	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0133	<0.0100	0.0124	<0.00100	<0.00100	0.0738	0.0218
	1/27/2021	0.00186	0.00398	0.0101	0.00322	0.0219	0.0251	<0.0500	0.00110	0.00169	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00618	<0.0100	0.0125	<0.00100	<0.00100	0.0743	0.0224
	2/3/2021	0.00208	0.00551	0.0120	0.00438	0.0262	0.0306	<0.0500	<0.00100	0.00195	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00101	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00756	<0.0100	0.0156	<0.00100	<0.00100	0.0945	0.0282
	2/10/2021	0.00743	0.0531	0.0280	0.0157	0.104	0.120	<0.0500	0.00140	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0142	<0.0100	0.00876	<0.00100	<0.00100	0.0448	0.0143
	2/24/2021	0.00800	0.0593	0.0287	0.0177	0.109	0.127	<0.0500	<0.00100	0.0024	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00142	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0140	<0.0100	0.00808	<0.00100	<0.00100	0.0408	0.0132
	3/4/2021	0.00566	0.0446	0.0222	0.0133	0.0869	0.100	<0.0500	<0.00100	0.00187	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00110	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00694	<0.00100	<0.00100	0.0390	0.0119
	3/10/2021	0.00850	0.0668	0.0314	0.0194	0.126	0.145	<0.0500	<0.00100	0.00270	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00176	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0156	<0.0100	0.00898	<0.00100	<0.00100	0.0466	0.0150
	3/17/2021	0.00789	0.0563	0.0273	0.0168	0.103	0.120	0.0253 J	0.000840 J	0.00239	<0.000195	<0.00100	<0.00100	NA	<0.000214	<0.000183	0.00139	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00830	<0.000228	<0.000162	0.0427	0.0135
	3/25/2021	0.00785	0.0585	0.0276	0.0175	0.109	0.127	0.0206 J	0.00129	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00143	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0141	<0.0100	0.00779	<0.00100	<0.00100	0.0416	<0.00100
	3/31/2021	0.00661	0.0459	0.0243	0.0143	0.0857	0.100	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	0.00302	<0.000183	0.00144	<0.000244	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00840	<0.000228	<0.000162	0.0422	0.01370
	4/8/2021	0.00231	0.00502	0.0106	0.00358	0.0227	0.0263	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00103	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00689	<0.0100	0.0148	<0.00100	<0.00100	0.0951	0.0639
	4/15/2021	0.00238	0.00491	0.0109	0.00364	0.0266	0.0302	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00109	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00733	<0.0100	0.0162	<0.00100	<0.00100	0.111	<0.00100
	4/21/2021	0.00214	0.00431	0.00957	0.00340	0.0198	0.0232	<0.00270	<0.000286	0.00181	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00658	<0.00200	0.0149	<0.000228	<0.000623	0.109	0.0631
	4/28/2021	0.00888	0.0652	0.0325	0.0201	0.121	0.141	0.0198 J	<0.000286	0.00259	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0161	<0.00200	0.00855	<0.000228	<0.000623	0.0431	0.0138
	5/5/2021	0.00808	0.0527	0.0257	0.0160	0.0935	0.110	<0.00270	0.00135	0.00232	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0121	<0.00200	0.00760	<0.000228	<0.000623	0.0414	<0.000279
	5/13/2021	0.00176	0.00332	0.00899	0.00297	0.0187	0.0217	<0.00270	0.00109	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000802 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00592	<0.00200	0.0139	<0.000228	<0.000623	0.0828	0.0239
	5/19/2021	0.00760	0.0603	0.0296																									

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation		Date	VOCs (mg/L)																											
			Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards			0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/6/2022	0.000940 J	0.00568	0.00394	0.00181	0.0134	0.0152	<0.00270	<0.000286	0.000577 J	<0.000195	0.000654 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000397 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00213	<0.00200	0.00127	<0.000228	<0.000623	0.0168	0.00498	
	1/12/2022	0.00260	0.0190	0.01020	0.00573	0.0381	0.0438	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000621 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00707	<0.00200	0.00273	<0.000228	<0.000623	0.0197	<0.000279	
	1/19/2022	0.00684	0.0520	0.0252	0.0158	0.0980	0.114	0.00679 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00123	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0118	<0.00200	0.00592	<0.000228	<0.000623	0.0296	0.00947	
	1/26/2022	0.00264	0.0206	0.0103	0.00604	0.0392	0.0452	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000568 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00507	<0.00200	0.00258	<0.000228	<0.000623	0.0139	0.00433	
	2/2/2022	Unable to Sample due to Incliment Weather. Booster Pump for Levey Well Damaged by Freeze.																												
	2/8/2022	0.00288	0.0228	0.0122	0.00697	0.0458	0.0528	0.0112 J	<0.000286	0.00125	<0.000195	0.00194	<0.000259	<0.000318	<0.000214	<0.000183	0.000813 J	<0.000285	<0.000396	<0.000174	0.000211 J	<0.000481	0.00591	<0.00200	0.00329	<0.000228	<0.000623	0.0228	0.00693	
	2/16/2022	0.000814 J	0.00676	0.00397	0.00212	0.0142	0.0163	<0.00270	<0.000286	<0.000199	<0.000195	0.00175	<0.000259	<0.000318	<0.000214	<0.000183	0.000336 J	<0.000285	0.000534 J	<0.000174	<0.000199	<0.000481	0.00202	<0.00200	0.00130	<0.000228	<0.000623	0.00924	0.00283	
	2/25/2022	0.00370	0.0196	0.0133	0.00750	0.0489	0.0564	0.00976 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000696 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00626	<0.00200	0.00308	<0.000228	<0.000623	0.0131	0.00450	
	3/3/2022	0.00462	0.0327	0.0162	0.00973	0.0634	0.0731	0.0180 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00731	<0.00200	0.00342	<0.000228	<0.000623	0.0140	0.00470	
	3/9/2022	0.00552	0.0388	0.0204	0.0124	0.0768	0.0892	<0.00270	0.00169	0.00180	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00966	<0.00200	0.00484	<0.000228	<0.000623	0.0226	0.00720	
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																												
	3/16/2022	0.00283	0.0227	0.0106	0.00619	0.0409	0.0471	<0.00270	<0.000286	0.000916 J	<0.000195	0.00174	<0.000259	<0.000318	<0.000214	<0.000183	0.000550 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00477	<0.00200	0.00238	<0.000228	<0.000623	0.0114	0.00388	
	3/24/2022	0.00236	0.0178	0.00867	0.00491	0.0341	0.0390	<0.00270	0.000553 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000509 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00409	<0.00200	0.00208	<0.000228	<0.000623	0.0101	0.00323	
	3/31/2022	0.00254	0.0197	0.00985	0.00574	0.0371	0.0428	0.00431 J	<0.000286	0.000932 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000605 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00482	<0.00200	0.00233	<0.000228	<0.000623	0.0121	0.00390	
	4/6/2022	0.00282	0.0215	0.0106	0.00647	0.0405	0.0470	0.00381 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000581 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00491	<0.00200	0.00250	<0.000228	<0.000623	0.0125	0.00386	
	4/13/2022	0.00148	0.0113	0.00559	0.00334	0.0211	0.0244	<0.00270	<0.000286	<0.000199	<0.000195	0.000531 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000351 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00269	<0.00200	0.00153	<0.000228	<0.000623	0.00856	0.00264	
	4/20/2022	0.000594 J	0.00776	0.00375	0.00212	0.0158	0.0179	<0.00270	<0.000286	0.000408 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000239 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00196	<0.00200	0.000651 J	<0.000228	<0.000623	0.00643	0.00156	
	4/28/2022	0.00151	0.0112	0.00540	0.00323	0.0207	0.0239	<0.00270	<0.000286	0.000523 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00238	<0.00200	0.00133	<0.000228	<0.000623	0.00733	0.00242	
	5/5/2022	0.00294	0.0275	0.0130	0.00761	0.0515	0.0591	<0.00270	<0.000286	0.00117	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000709 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00600	<0.00200	0.00265	<0.000228	<0.000623	0.0145	0.00440	
	5/10/2022	0.00343	0.0282	0.0132	0.00821	0.0517	0.0599	<0.00270	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000652 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00630	<0.00200	0.00301	<0.000228	<0.000623	0.0148	0.00463	
	5/19/2022	0.00285	0.0228	0.0107	0.00633	0.0424	0.0487	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000527 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.00232	<0.000228	<0.000623	0.0102	0.00345	
	5/26/2022	0.00431	0.0360	0.0171	0.0109	0.0679	0.0788	<0.00270	<0.000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000918 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00840	<0.00200	0.00391	<0.000228	<0.000623	0.0182	0.00580	
	6/1/2022	0.00296	0.0233	0.0107	0.00653	0.0423	0.0488	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000538 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00499	<0.00200</						

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
Levey Well	1/4/2023	Electrical Failure, Unable to Sample.																											
	1/13/2023	0.00344	0.0290	0.0135	0.00827	0.0558	0.0641	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00668	<0.00135	0.00303	<0.000511	<0.000655	0.0120	0.00408
	1/19/2023	0.00418	0.0357	0.0146	0.00899	0.0602	0.0692	<0.00828	<0.000644	0.00135	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00684	<0.00135	0.00313	<0.000511	<0.000655	0.0114	0.00396
	1/25/2023	0.00589	0.0498	0.0228	0.0139	0.0938	0.1080	<0.00828	0.00112	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00108	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0112	<0.00135	0.00495	<0.000511	<0.000655	0.0198	0.00669
	2/2/2023	0.00421	0.0338	0.0146	0.00885	0.0601	0.0690	<0.00828	0.000778 J	0.00121	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00695	<0.00135	0.0032	<0.000511	<0.000655	0.0112	0.00392
	2/8/2023	0.00381	0.0269	0.0115	0.00734	0.0496	0.0569	<0.00828	<0.000644	0.00101	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00583	<0.00135	0.00265	<0.000511	<0.000655	0.0106	0.00335
	2/17/2023	0.00254	0.0204	0.00982	0.00629	0.0396	0.0459	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00499	<0.00135	0.00238	<0.000511	<0.000655	0.0102	0.00316
	2/22/2023	0.00363	0.0281	0.0133	0.00889	0.0540	0.0629	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00623	<0.00135	0.00302	<0.000511	<0.000655	0.0140	0.00426
	3/3/2023	0.00421	0.0316	0.0145	0.00911	0.0581	0.0672	<0.00828	<0.000644	0.00117	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00698	<0.00135	0.00300	<0.000511	<0.000655	0.0124	0.00408
	3/8/2023	0.00410	0.0288	0.0132	0.00896	0.0539	0.0629	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00618	<0.00135	0.00276	<0.000511	<0.000655	0.0138	0.00409
	3/15/2023	0.00318	0.0245	0.0113	0.00747	0.0450	0.0525	<0.00828	<0.000644	0.000987 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00543	<0.00135	0.00250	<0.000511	<0.000655	0.0112	0.00329
	3/23/2023	0.00278	0.0219	0.0103	0.00617	0.0393	0.0455	<0.00828	<0.000644	0.000873 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00513	<0.00135	0.00224	<0.000511	<0.000655	0.00930	0.00289
	3/29/2023	0.00274	0.0197	0.00898	0.00564	0.0349	0.0405	<0.00828	<0.000644	0.000857 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00462	<0.00135	0.00192	<0.000511	<0.000655	0.00798	0.00246
	4/6/2023	0.00326	0.0242	0.0113	0.00757	0.0451	0.0527	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00554	<0.00135	0.00237	<0.000511	<0.000655	0.0110	0.00328
	4/14/2023	0.00196	0.0142	0.00641	0.00432	0.0251	0.0294	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00316	<0.00135	0.00142	<0.000511	<0.000655	0.00638	0.00204
	4/26/2023	0.00315	0.0256	0.0119	0.00779	0.0508	0.0586	<0.00828	<0.000644	0.0011	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00595	<0.00135	0.00251	<0.000511	<0.000655	0.01160	0.00346
	5/2/2023	0.00230	0.0168	0.00748	0.00491	0.0302	0.0351	<0.00828	<0.000644	0.000716 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00367	<0.00135	0.00169	<0.000511	<0.000655	0.00721	0.00229
	5/11/2023	0.00224	0.0163	0.00757	0.00487	0.0277	0.0326	<0.00828	<0.000644	0.000743 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00364	<0.00135	0.00166	<0.000511	<0.000655	0.00700	0.00230
	5/15/2023	0.00134	0.00949	0.00492	0.00275	0.0190	0.0218	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00285	<0.00135	0.00106	<0.000511	<0.000655	0.00436	0.00129
	5/25/2023	0.00161	0.0113	0.00570	0.00323	0.0211	0.0243	<0.00828	<0.000644	0.000561 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00267	<0.00135	0.00127	<0.000511	<0.000655	0.00441	0.00141
	5/30/2023	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	0.000889 J	<0.000456
	6/9/2023	0.00327	0.0264	0.0129	0.00821	0.0529	0.0611	<0.00828	0.000774 J	0.00137	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00611	<0.00135	0.00323	<0.000511	<0.000655	0.01400	0.00411
	6/15/2023	0.00219	0.0154	0.00761	0.00487	0.0292	0.0341	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00398	<0.00135	0.00175	<0.000511	<0.000655	0.00744	0.00229
	6/23/2023	0.00365	0.0251	0.0139	0.00865	0.0564	0.0651	<0.00828	0.000789 J	0.00128	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00633	<0.00135	0.00291	<0.000511	<0.000655	0.0141	0.00414
	6/26/2023	0.00257	0.0177	0.00872	0.00591	0.0356	0.0415	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00406	<0.00135	0.00199	<0.000511	<0.000655	0.00922	0.00261
	7/5/2023	0.00328	0.0241	0.0126	0.00842	0.0508	0.0																						

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-1	5/26/2020	0.000500 J	<0.000500	<0.000146	<0.000192	0.00215 J	0.00215	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00101	0.0005 J
	6/30/2020	0.00275	<0.00100	<0.00100	<0.00100	0.0136	0.0136	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00665	0.00271
	8/20/2020	0.00222	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	0.00388	0.00175
	10/23/2020	0.00353	<0.000367	<0.000657	<0.000642	0.00246 J	0.00246												NA										
	11/24/2020	0.00241	<0.000500	0.000310 J	<0.000192	0.00133 J	0.001330	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.00151	0.000820 J
	12/18/2020	0.00257	<0.000500	0.000580 J	<0.000192	0.00145 J	0.00145	<0.00270	<0.000286	0.000350 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000270 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000320 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00234	0.00111
	12/23/2020	0.00159	<0.000500	0.000380 J	<0.000192	0.000970 J	0.000970 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	0.000230 J	<0.000199	<0.000481	<0.000161	<0.00200	<0.000179	<0.000228	<0.000162	0.000720 J	0.000360 J
	12/30/2020	0.00194	<0.000500	0.000470 J	<0.000192	0.00148 J	0.00148	<0.00270	<0.000286	0.000230 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000240 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00154	0.000750 J
	1/6/2021	0.00209	<0.000500	0.000330 J	<0.000192	0.00122 J	0.00122	<0.00270	<0.000286	0.000310 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000260 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000190 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00219	0.00103
	1/12/2021	0.00211	0.000690 J	0.000540 J	<0.000192	0.00163 J	0.00163	<0.00270	<0.000286	0.000220 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000670 J
	1/20/2021	0.00222	<0.000500	0.000430 J	<0.000192	0.00137 J	0.00137	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00140	0.000720 J
	1/27/2021	0.00157	<0.000500	0.000400 J	<0.000192	0.00123 J	0.00123	0.00398 J	<0.000286	0.000270 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00153	0.000830 J
	2/3/2021	0.00203	<0.000500	0.000430 J	<0.000192	0.00100 J	0.00100 J	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000180 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00105	0.000510 J
	2/10/2021	0.00196	<0.000500	0.000560 J	<0.000192	0.00143 J	0.00143	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000300 J	<0.00200	<0.000179	<0.000228	<0.000162	0.00143	0.000740 J
	2/24/2021	0.00158	<0.000500	0.000460 J	<0.000192	0.00110 J	0.0011	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000210 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000930 J	0.000490 J
	3/4/2021	0.00139	<0.000500	0.00102	<0.000192	0.00211 J	0.00211	<0.00575	<0.000286	0.000240 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000440 J	<0.00200	0.000240 J	<0.000228	<0.000162	0.00131	0.000680 J
	3/10/2021	0.00143	<0.000500	0.000490 J	<0.000192	0.000900 J	0.000900 J	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000200 J	<0.00200	<0.000179	<0.000228	<0.000162	0.000780 J	0.000370 J
	3/17/2021	0.00159	0.00112	0.000790 J	<0.000192	0.00183 J	0.00183	<0.00575	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.000380 J	<0.00200	0.000230 J	<0.000228	<0.000162	0.00145	0.000570 J
	3/25/2021	0.00159	<0.00100	0.000533 J	<0.00100	0.00123 J	0.00123 J	<0.0500	<0.00100	0.000214 J	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.000253 J	<0.0100	<0.00100	<0.00100	<0.00100	0.00152	<0.00100
	3/31/2021	0.00161	<0.000500																										

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Sample Designation	Date	VOCs (mg/L)																									
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene

[illegible]

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroethylene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	5/26/2020	0.00901	0.0299	0.0069	0.0186	0.0545	0.0731	<0.00270	<0.000286	0.000270 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000660	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00223	<0.00200	0.000570 J	<0.000228	<0.000162	0.0125	0.00704
	6/30/2020	0.0124	0.0193	0.0187	0.0196	0.0903	0.110	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00667	<0.0100	0.00243	<0.00100	<0.00100	0.0231	0.00815
	8/20/2020	0.0148	0.0172	0.0182	0.0160	0.0802	0.0962	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00640	<0.0100	0.00170	<0.00100	<0.00100	0.0145	0.00421
	10/23/2020	0.0250	0.00730	0.0248	0.0186	0.110	0.129	NA																					
	11/24/2020	0.0358	0.0613	0.0503	0.0465	0.221	0.2675	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00143	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0189	0.00242 J	<0.000179	<0.000228	<0.000162	0.0590	0.0149
	12/18/2020	0.0263	0.0260	0.0369	0.0240	0.165	0.189	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00113	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0148	<0.00200	0.00486	<0.000228	<0.000162	0.0467	0.0121
	12/23/2020	0.0299	0.0358	0.0381	0.0266	0.156	0.183	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00101	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0135	<0.00200	0.00408	<0.000228	<0.000162	0.0406	0.0102
	12/30/2020	0.0200	0.0242	0.0185	0.0146	0.0592	0.0738	<0.00270	0.000550 J	0.000680 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000540 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00603	<0.00200	0.00170	<0.000228	<0.000162	0.0116	0.00533
	1/6/2021	0.0200	0.0169	0.0231	0.0169	0.118	0.135	<0.00270	0.000390 J	0.00117	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00105	0.000500 J	<0.000396	<0.000174	<0.000199	<0.000481	0.00815	<0.00200	0.00267	0.000800 J	<0.000162	0.0339	0.0103
	1/12/2021	0.0193	0.0185	0.0198	0.0144	0.0922	0.107	<0.00270	0.000690 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00756	<0.00200	0.00242	<0.000228	<0.000162	0.0259	0.00698
	1/20/2021	0.0229	0.0169	0.0190	0.0136	0.0829	0.0965	0.00394 J	0.000400 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000470 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00177	<0.000228	<0.000162	0.0202	0.00517
	1/27/2021	0.0298	0.0276	0.0282	0.0269	0.155	0.182	0.00504 J	0.00103	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0117	<0.00200	0.00343	<0.000228	<0.000162	0.0500	0.0129
	2/3/2021	0.0286	0.0392	0.0258	0.0236	0.111	0.135	<0.00270	<0.000286	0.000850 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000590 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00817	<0.00200	0.00240	<0.000228	<0.000162	0.0267	0.00674
	2/10/2021	0.0307	0.0201	0.0329	0.0210	0.159	0.180	<0.00575	0.000870 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000940 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0120	<0.00200	0.00331	<0.000228	<0.000162	0.0407	0.00994
	2/24/2021	0.0218	0.0122	0.0164	0.0111	0.0749	0.086	<0.00575	0.000370 J	0.000640 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000480 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0060	<0.00200	0.00175	<0.000228	<0.000162	0.0191	0.00496
	3/4/2021	0.0264	0.0232	0.0320	0.0212	0.142	0.163	<0.00575	0.000430 J	0.00131	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000930 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0115	<0.00200	0.00390	<0.000228	<0.000162	0.0403	0.0100
	3/10/2021	0.0269	0.0234	0.0271	0.0206	0.117	0.138	<0.00575	<0.000286	0.000970 J	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	0.000720 J	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.00931	<0.00200	0.00281	<0.000228	<0.000162	0.0287	0.00720
	3/17/2021	0.0238	0.0237	0.0257	0.0190	0.113	0.132	<0.0500	<0.00100	0.00113	<0.00100	<0.00100	<0.000259	NA	<0.00100	<0.00100	<0.00100	<0.00500	<0.00500	<0.00500	<0.00100	<0.00500	0.00923	<0.0100	0.00305	<0.00100	<0.00100	0.0315	0.00821
	3/25/2021	0.0209	0.0281	0.0202	0.0165	0.0892	0.106	<0.0500	<0.00100	0.000799 J	0.00134	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.000610 J	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00725	<0.0100	0.00229	<0.00100	<0.00100	0.0224	<0.00100
	3/31/2021	0.0298	0.0107	0.0177	0.0203	0.124	0.144	<0.00270	<0.000286	0.00137	<0.000195	<0.000500	<0.00100	<0.0100	0.00151	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0133	<0.00200	0.00295	<0.000228	0.000631 J	0.0426	0.0107
	4/8/2021	0.0226	0.0217	0.0210	0.0175	0.0990	0.117	<0.00270	0.000640 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214														

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	1/6/2022	0.0360	0.00656	0.0309	0.0229	0.253	0.274	<0.00270	0.00192	0.00273	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00265	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00488	<0.000228	<0.000623	0.108	0.0273
	1/12/2022	0.0205	0.00174	0.00106	0.0200	0.0949	0.115	<0.00270	<0.000286	0.00132	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00184	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.000546 J	<0.000228	<0.000623	0.0619	0.00491
	1/19/2022	0.0262	0.00733	0.0305	0.0147	0.229	0.249	<0.00270	0.00104	0.00147	<0.000195	<0.000500	<0.000259	<0.000318	<0.00214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0142	<0.00200	0.00403	<0.000228	<0.000623	0.0435	0.0115
	1/26/2022	0.0331	0.00488	0.0137	0.00718	0.0755	0.0827	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000314 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00555	<0.00200	0.00112	<0.000228	<0.000623	0.0145	0.00380
	2/2/2022	Unable to Sample due to Incimient Weather. Booster Pump for Levey Well Damaged by Freeze.																											
	2/8/2022	0.0184	0.00572	0.0133	0.00676	0.0653	0.0721	<0.00270	<0.00286	0.000510 J	<0.000195	<0.000500	<0.000259	0.00165 J	<0.000214	<0.000183	0.000391 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00544	<0.00200	0.00149	<0.000228	<0.000623	0.0150	0.00409
	2/16/2022	0.0357	0.0270	0.0391	0.0307	0.205	0.244	<0.00270	<0.00286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000884 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0127	<0.00200	0.00392	<0.000228	<0.000623	0.0393	0.0103
	2/25/2022	0.0341	0.00559	0.0206	0.0111	0.134	0.145	<0.00270	<0.0000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000996 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0114	<0.00200	0.00295	<0.000228	<0.000623	0.0386	0.00997
	3/3/2022	0.0370	0.00673	0.0378	0.0160	0.225	0.244	<0.00270	<0.0000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00117	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0152	<0.00200	0.00456	<0.000228	<0.000623	0.0496	0.0126
	3/9/2022	0.0182	0.00790	0.0186	0.0131	0.0857	0.0988	<0.00270	<0.0000286	0.000910 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000683 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00211	<0.000228	<0.000623	0.0240	0.00659
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.0200	0.00793	0.0209	0.0133	0.0947	0.108	<0.00270	<0.0000286	0.000759 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000524 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00753	<0.00200	0.00212	<0.000228	<0.000623	0.0216	0.00583
	3/24/2022	0.0400	0.0151	0.0490	0.0321	0.252	0.284	<0.00270	0.00104	0.00192	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0208	<0.00200	0.00487	<0.000228	<0.000623	0.0679	0.0170
	3/31/2022	0.0305	0.0309	0.0274	0.0311	0.267	0.311	<0.00270	0.00102	0.00142	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00138	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00896	<0.00200	0.00203	<0.000228	<0.000623	0.0551	0.0138
	4/6/2022	0.0303	0.0170	0.0140	0.0228	0.191	0.218	<0.00270	0.000939 J	0.00104	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00128	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00534	<0.00200	0.00110	<0.000228	<0.000623	0.0517	0.0136
	4/13/2022	0.0303	0.0271	0.0235	0.0218	0.135	0.157	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000812 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00770	<0.00200	0.00212	<0.000228	<0.000623	0.0368	0.00937
	4/20/2022	0.0246	0.0126	0.0157	0.0171	0.0994	0.117	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000513 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00439	<0.00200	0.000555 J	<0.000228	<0.000623	0.0224	0.00580
	4/28/2022	0.0384	0.0164	0.0617	0.0403	0.292	0.333	<0.00270	0.00162	0.00214	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00176	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0222	<0.00200	0.00675	<0.000228	<0.000623	0.0872	0.0220
	5/5/2022	0.0181	0.00219	0.0172	0.00988	0.110	0.120	<0.00270	0.000629 J	0.000796 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000733 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00608	<0.00200	0.00123	<0.000228	<0.000623	0.0276	0.00751
	5/10/2022	0.0197	0.00422	0.0184	0.0142	0.129	0.143	<0.00270	<0.000286	0.000957 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000953 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00681	<0.00200	0.00180	<0.000228	<0.000623	0.0367	0.00949
	5/19/2022	0.0329	0.00659	0.0505	0.0254	0.367	0.407	<0.00270	0.00159	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0196	<0.00200	0.00593	<0.000228	<0.000623	0.0645	0.0173
	5/26/2022	0.0238	0.00151	0.0208	0.00782	0.105	0.113	<0.00270	0.000780 J	0.00102	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000846 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00912	<0.00200	0.00268	<0.000228	<0.000623	0.0317	0.00846
	6/1/2022	0.0387	0.00639	0.0414	0.0212	0.230	0.253	<0.00270	<0.000286	0.00172	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00147	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0156	<0.00200	0.00395	<0.000228	<0.000623		

TABLE 1
GROUNDWATER SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	VOCs (mg/L)																											
		Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes	Total Xylenes	Methyl ethyl ketone (2-Butanone)	n-Butylbenzene	Sec-Butylbenzene	tert-Butylbenzene	Tetrachloroeth(y)lene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)lene	1,4-Dichlorobenzene	1,1-Dichloropropene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,1,2-Trichloroethane	Styrene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		0.005	1	0.7	NE	NE	0.62	NE	NE	NE	NE	0.005	0.1	NE	NE	NE	NE	0.005	0.005	NE	0.075	NE	NE	0.03	NE	0.01	0.1	NE	NE
MW-2	1/4/2023	0.0171	0.00237	0.0141	0.00970	0.0788	0.0885	<0.00828	<0.000644	0.000971 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00890	<0.00135	0.00234	<0.000511	<0.000655	0.0257	0.00599
	1/13/2023	0.0108	0.00141	0.00784	0.00466	0.0387	0.0434	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00527	<0.00135	0.00122	<0.000511	<0.000655	0.0123	0.00280
	1/19/2023	0.0140	0.00274	0.00951	0.00742	0.0484	0.0558	<0.00828	<0.000644	0.000586 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00538	<0.00135	0.00141	<0.000511	<0.000655	0.0129	0.00326
	1/25/2023	0.0115	0.00124	0.00655	0.00433	0.0294	0.0337	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00327	<0.00135	0.000899 J	<0.000511	<0.000655	0.00796	0.00205
	2/2/2023	0.0138	0.00114	0.00696	0.00447	0.0352	0.0397	<0.00828	<0.000644	0.000511 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00437	<0.00135	0.00111	<0.000511	<0.000655	0.0103	0.00276
	2/8/2023	0.0165	0.00284	0.0187	0.01190	0.0787	0.0906	<0.00828	<0.000644	0.000970 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00892	<0.00135	0.00274	<0.000511	<0.000655	0.0232	0.00621
	2/17/2023	0.0139	0.00624	0.00991	0.00823	0.0486	0.0568	<0.00828	<0.000644	0.000616 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.0118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00587	<0.00135	0.00146	<0.000511	<0.000655	0.0151	0.00385
	2/22/2023	0.0153	0.0274	0.0152	0.0146	0.0637	0.0783	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.0118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00543	<0.00135	0.00151	<0.000511	<0.000655	0.0132	0.00357
	3/3/2023	0.0154	0.01280	0.0166	0.0140	0.0714	0.0854	<0.00828	<0.000644	0.000719 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.0118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00716	<0.00135	0.00209	<0.000511	<0.000655	0.0179	0.00495
	3/8/2023	0.0145	0.00263	0.00977	0.00699	0.0473	0.0543	<0.00828	<0.000644	0.000633 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00648	<0.00135	0.00153	<0.000511	<0.000655	0.0157	0.00403
	3/15/2023	0.0129	0.00265	0.0105	0.00727	0.0393	0.0466	<0.00828	<0.000644	0.000568 J	<0.000442	<0.000801	<0.00643	<0.00204	<0.00118	<0.000472	<0.00919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00529	<0.00135	0.00134	<0.000511	<0.000655	0.0129	0.00348
	3/23/2023	0.0159	0.00204	0.0154	0.00843	0.0597	0.0681	<0.00828	0.000671 J	0.00120	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00972	<0.00135	0.00277	<0.000511	<0.000655	0.0267	0.00702
	3/29/2023	0.0132	0.00207	0.00611	0.00430	0.0168	0.0211	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00255	<0.00135	0.00061 J	<0.000511	<0.000655	0.00470	0.00128
	4/6/2023	0.0145	0.00333	0.0115	0.00862	0.0508	0.0594	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00878	<0.00135	0.00197 J	<0.000511	<0.000655	0.0225	0.00540
	4/14/2023	0.0156	0.0161	0.0193	0.0158	0.0719	0.0877	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00792	<0.00135	0.00245	<0.000511	<0.000655	0.0195	0.00548
	4/26/2023	0.0145	0.00380	0.0206	0.0140	0.0685	0.0825	<0.00828	0.000650 J	0.00145	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.000946 J	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00356	<0.000511	<0.000655	0.0348	0.00888
	5/2/2023	0.0121	0.00144	0.0115	0.00647	0.0350	0.0415	<0.00828	<0.000644	0.000716 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00615	<0.00135	0.00169	<0.000511	<0.000655	0.0149	0.00410
	5/11/2023	0.0133	0.00355	0.0174	0.0123	0.0412	0.0535	<0.00828	0.000666 J	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00753	<0.00135	0.00239	<0.000511	<0.000655	0.0187	0.00536
	5/15/2023	0.00988	<0.000475	0.00646	0.00425	0.0253	0.0296	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00524	<0.00135	0.00122	<0.000511	<0.000655	0.0137	0.00304
	5/25/2023	0.0164	0.00150	0.0185	0.0106	0.0581	0.0687	<0.00828	<0.000644	0.00148	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00109	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00337	<0.000511	<0.000655	0.0334	0.00887
	5/30/2023	0.0122	0.00197	0.0199	0.00741	0.0249	0.0323	<0.00828	<0.000644	0.000558 J	0.000690 J	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00455	<0.00135	0.00138	<0.000511	<0.000655	0.0103	0.00300
	6/9/2023	0.0180	0.00256	0.0196	0.0129	0.0666	0.0795	<0.00828	0.00104	0.00151	<0.000442	<0.000801	<0.000643	0.00299 J	<0.00118	<0.000472	0.00115	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00349	<0.000511	<0.000655	0.0433	0.0105
	6/15/2023	0.0123	0.00201	0.0144	0.00962	0.0404	0.0500	<0.00828	0.000779 J	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00809	<0.00135	0.00229	<0.000511	<0.000655	0.0248	0.00690
	6/23/2023	0.0172	0.00375	0.0266	0.0191	0.0738	0.0929	<0.00828	0.00100	0.00117	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0110	<0.00135	0.00325	<0.000511	<0.000655	0.0320	0.00823
	6/26/2023	0.0161	0.00327	0.0163	0.0148	0.0553	0.0701	&lt																					



TABLE 2
GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY
 Levey Well
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	(mg/L)														%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9	
Levey Well	12/6/2019	<0.500	253	<0.500	0.594	0.199	61.5	405	65.0	5.27	83.7	1,680	1,260	<4.00	2.70	6.45	
	12/13/2019	<0.500	315	<0.500	0.744	0.222	72.9	450	80.1	6.71	110	1,900	1,230	<4.00	2.00	7.02	
	12/19/2019	0.414 J	311	0.381 J	0.539	<0.0293	62.9	411	72.2	5.61	101	1,640	1,140	<4.00	0.200	6.57	
	12/26/2019	<0.500	257	<0.500	0.617	0.204	61.7	418	68.8	5.82	88.5	1,760	1,280	<4.00	1.30	6.44	
	1/2/2020	<0.500	302	<0.500	0.331	<0.100	60.6	375	70.5	5.96	98.8	1,630	1,150	<4.00	2.40	6.83	
	1/15/2020	<0.500	190	0.559	0.129	0.930	53.5	401	66.8	4.82	82.9	1,570	1,260	<4.00	0	6.35	
	1/23/2020	<0.500	195	0.617	0.126	0.128	46.2	426	76.3	8.84	86.4	1,530	1,230	<4.00	1.60	6.21	
	1/31/2020	<0.500	197	0.616	0.129	<0.100	48.5	446	79.1	7.43	89.5	1,440	1,230	<4.00	3.20	6.15	
	2/6/2020	<0.500	316	<0.500	0.179	<0.100	64.2	430	76.0	7.60	101	1,100	1,180	<4.00	1.10	6.07	
	2/13/2020	<2.50	293	0.623	0.178	<0.500	57.3	409	74.5	6.80	95.7	1,640	1,200	<4.00	0.300	6.04	
	2/20/2020	<0.500	272	0.586	0.157	<0.100	49.6	421	71.4	6.38	91.4	1,690	1,220	<4.00	0.300	5.93	
	2/28/2020	<0.500	307	<0.500	1.05	1.35	56.6	438	74.0	5.98	97.4	1,620	1,230	<4.00	0.400	6.12	
	3/6/2020	<0.500	284	0.621	0.107	1.27	56.2	418	67.9	5.60	92.7	1,880	1,230	<4.00	0.800	6.26	
	3/13/2020	<0.500	316	0.629	<0.100	<0.100	59.3	393	63.3	5.32	91.2	1,770	1,200	<4.00	4.30	6.23	
	3/18/2020	0.533	332	0.642	0.128	<0.100	63.5	391	67.4	5.56	95.7	1,680	1,180	<4.00	3.80	6.44	
	3/27/2020	0.533	324	0.728	<0.100	<0.100	57.6	418	70.3	5.91	105	1,610	1,180	<4.00	0.200	6.57	
	4/3/2020	<0.500	304	0.807	0.110	<0.100	57.3	417	69.0	5.91	101	1,960	1,180	<4.00	0.200	6.37	
	4/10/2020	0.575	351	0.612	0.172	<0.100	61.8	431	72.3	6.17	104	1,930	1,190	<4.00	0.600	6.73	
	4/17/2020	0.590	353	0.691	0.165	<0.100	59.7	406	73.2	5.40	108	1,750	1,180	<4.00	1.70	6.51	
	4/24/2020	0.595	370	0.723	0.152	<0.100	61.2	408	75.2	5.55	113	1,810	1,130	<4.00	0.600	6.32	
	5/1/2020	0.576	376	0.686	0.140	<0.100	61.8	402	74.6	5.39	106	1,750	1,130	<4.00	1.90	6.37	
	5/7/2020	0.517	365	0.675	0.163	<0.100	58.8	425	70.5	5.57	108	1,640	1,140	<4.00	0.00	6.55	
	5/14/2020	0.571	409	0.585	0.160	<0.100	56.0	412	76.5	6.23	107	1,900	1,200	<4.00	3.70	6.34	
	5/22/2020	0.531	319	0.561	1.550	<0.100	30.1	354	63.7	5.24	97.4	1,360	1,190	<4.00	6.10	6.54	
	5/26/2020	0.549	357	0.688	0.153	<0.100	44.5	356	69.6	5.67	102	1,650	1,170	<4.00	6.30	6.42	
	6/5/2020	0.640	417	0.535	0.139	<0.100	39.9	379	73.3	5.92	108	1,670	1,160	<4.00	5.90	6.30	
	6/12/2020	0.602	359	0.697	0.145	<0.100	43.9	386	72.4	6.70	106	1,670	1,140	<4.00	2.40	6.22	
	6/18/2020	0.576	431	<5.00	0.144	<0.100	39.5	418	78.8	6.23	115	1,800	1,180	<4.00	2.40	6.28	
	6/23/2020	0.586	398	<5.00	0.136	<0.100	33.3	361	66.3	5.48	98.2	1,920	1,190	<4.00	8.40	6.23	
	6/30/2020	0.695	431	<5.00	0.149	<0.100	37.9	437	78.6	6.70	113	1,830	1,170	<4.00	2.60	6.39	
	7/9/2020	0.647	413	<5.00	0.147	0.215	40.5	421	78.5	6.58	114	1,790	1,170	<4.00	1.50	6.37	
	7/16/2020	0.657	390	<5.00	0.128	<0.100	40.6	402	77.6	7.01	114	1,890	1,170	<4.00	1.90	6.34	
	7/23/2020	0.621	396	<5.00	0.175	0.169	36.5	419	74.0	6.58	111	2,000	1,160	<4.00	1.10	6.22	
	7/30/2020	0.669	390	0.625	0.181	<0.100	39.3	397	71.4	5.59	103	1,910	1,170	<4.00	3.70	6.18	
	8/7/2020	0.631	387	0.526	0.186	1.75	36.1	404	79.5	6.73	111	1,810	1,150	<4.00	0.900	6.12	
	8/13/2020	0.713	408	0.505	0.191	1.45	34.9	368	75.1	6.54	115	1,980	1,150	<4.00	5.00	6.26	
	8/20/2020	0.690	449	<0.500	0.164	<0.100	38.7	389	69.0	5.99	113	2,000	1,090	<4.00	4.40	6.18	
	8/27/2020	0.846	582	<0.500	0.158	1.68	49.4	446	82.6	7.17	161	2,570	973	<4.00	1.50	6.35	
	9/2/2020	0.868	635	<0.500	0.159	<0.100	48.1	422	77.9	7.25	168	1,620	1,030	<4.00	3.40	6.30	
	9/10/2020	0.714	499	<0.500	<0.100	1.61	41.9	387	79.4	6.53	133	1,980	1,090	<4.00	4.20	6.10	
	9/17/2020	0.769	472	<0.500	0.272	1.06	40.8	467	73.4	6.45	119	1,930	1,110	<4.00	1.10	6.14	
	9/25/2020	0.779	541	<0.500	0.150	<0.100	44.0	386	75.9	5.86	133	1,680	1,110	<4.00	6.70	6.17	
	10/1/2020	0.721	466	<0.500	0.173	<0.100	41.4	398	75.5	6.25	124	1,940	1,110	<4.00	3.30	6.07	
	10/9/2020	0.786	527	<0.500	0.161	<0.100	43.8	426	79.8	6.90	139	2,220	1,090	<4.00	1.90	6.21	
	10/16/2020	0.595	460	0.511	<0.100	<2.00	45.7	376	72.5	5.90	122	2,020	1,080	<4.00	4.80	6.20	
	11/24/2020	0.817	572	<0.500	0.124	2.07	37.5	438	79.6	6.56	141	2,200	1,100	<4.00	2.60	6.45	
	12/4/2020	0.687	706	<0.500	0.142	3.27	30.9	405	75.8	7.09	143	2,000	1,050	<4.00	9.30	6.33	
	12/11/2020	0.816	487	0.949	0.197	1.80	33.4	445	82.0	6.90	133	1,990	1,160	<4.00	0.200	6.20	
	12/18/2020	0.763	497	<5.00	0.129	1.87	37.6	424	79.5	6.97	137	1,910	1,180	<4.00	2.70	6.39	
	12/23/2020	0.613	477	<5.00	0.108	<0.100	38.3	416	78.2	7.82	129	1,800	1,290	<4.00	5.70	6.22	
12/30/2020	0.712	493	<0.500	<0.100	<0.100	40.1	448	80.0	6.21	139	2,120	1,340	<4.00	4.40	6.14		
1/6/2021	0.784	504	<0.500	0.155	2.61	23.0	400	79.8	6.14	135	2,210	1,340	<4.00	8.10	6.27		
1/12/2021	0.605	326	<0.500	0.137	1.05	<0.500	324	64.3	5.68	97.8	1,680	1,160	<4.00	7.00	6.57		
1/20/2021	0.796	486	<0.500	0.138	<0.100	7.68	397	73.0	6.00	127	2,170	1,200	<4.00	5.70	6.24		
1/27/2021	0.510	264	0.905	0.137	1.16	23.1	296	55.1	4.75	83.1	1,350	875	<4.00	1.70	6.38		
2/3/2021	0.501	275	0.842	0.122	1.02	20.5	329	59.0	4.76	89.4	1,370	940	<4.00	0.00	6.37		
2/10/2021	0.615	561	<0.500	0.147	0.308	24.9	416	77.9	7.03	156	1,980	1,170	<4.00	4.50	6.31		
2/24/2021	0.695	576	<0.500	0.163	2.6	31.4	450	81.3	7.94	164	2,260	1,190	<4.00	2.50	6.22		
3/4/2021	0.789	585	<0.500	0.121	0.215	54.1	425	77.8	6.41	151	2,090	1,050	<4.00	3.00	6.34		
3/10/2021	0.756	540	<0.500	0.147	<0.100	45.5	417	76.3	5.54	139	1,940	1,160	<4.00	5.10	6.29		
3/17/2021	0.813	519	1.21	0.169	<0.100	33.8	436	71.3	6.10	127	1,910	1,200	<4.00	4.70	5.97		
3/25/2021	<10.0	529	<10.0	<2.00	1.99 J	20.2	435	78.0	7.14	136	2,320	1,250	<4.00	-10.80	6.6		
3/31/2021	0.785	499	0.358 J	0.130	<0.0293	16.5	416	74.3	6.73	132	1,650	1,150	<4.00	-9.18	6.4		
4/8/2021	<0.500	254	0.869	<0.100	0.121	23.3	271	46.7	5.00	74.5	1,120	785	<4.00	-9.60	6.5		
4/15/2021	0.545	253	0.939	<0.100	<0.100	34.1	283	53.5	4.66	82.8	998	793	<4.00	-7.22	6.5		
4/21/2021	0.460 J	253	0.729	0.125	<0.0293	9.23	278	52.4	4.83	81.4	1,210	869	<4.00	-10.1	6.4		
4/28/2021	0.84.																



TABLE 2
GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY
 Levey Well
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	(mg/L)														Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	% Cation-Anion Balance	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium									
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9				
Levey Well	5/27/2021	0.579	419	0.499 J	0.137	0.136	16.7	406	73.3	6.47	123	1,370	810	<4.00	1.85	6.5				
	6/2/2021	0.712	488	0.303 J	0.128	<0.0293	23.7	447	82.8	7.43	139	2,140	1,120	<4.00	-4.83	6.3				
	6/10/2021	0.415 J	247	1.10	0.124	1.38	22.2	273	54.9	4.90	84.8	1,270	669	<4.00	-2.53	6.5				
	6/16/2021	0.405 J	227	0.946	0.125	<0.0293	11.5	267	56.0	4.64	84.4	1,500	723	<4.00	-3.70	6.7				
	6/22/2021	0.405 J	230	1.00	0.117	1.67	28.9	298	53.1	4.74	80.7	1,230	657	<4.00	0.795	6.7				
	6/30/2021	0.398 J	237	1.07	0.140	0.205	23.8	258	51.9	4.32	74.6	1,200	676	<4.00	-5.560	6.9				
	7/1/2021	Levey Well Now Running Full Time																		
	7/7/2021	0.469 J	305	0.705	0.128	<0.0293	41.3	337	67.2	5.46	96.3	1,780	764	<4.00	-0.751	6.6				
	7/14/2021	0.446 J	297	0.753	0.151	0.167	41.6	323	61.9	4.56	87.0	1,200	785	<4.00	-3.73	6.4				
	7/20/2021	0.180 J	290	0.223 J	0.0457 J	<0.0293	38.2	317	65.9	5.31	96.1	1,620	854	<4.00	-5.11	6.4				
	7/27/2021	0.437 J	281	0.491 J	0.126	1.42	41.3	338	66.9	5.14	95.9	1,240	790	<4.00	-0.522	6.2				
	8/5/2021	0.400 J	275	0.565	0.158	<0.0293	43.3	334	68.8	5.00	90.9	1,610	714	<4.00	2.12	6.6				
	8/11/2021	0.446 J	261	0.512	0.154	1.81	43.2	298	64.8	4.96	89.8	1,470	764	<4.00	-3.46	6.4				
	8/19/2021	0.583	380	0.357 J	0.177	0.694	39.1	336	68.2	6.69	111	2,030	769	<4.00	-3.85	6.6				
	8/25/2021	0.483 J	249	0.680	0.125	1.13	41.4	305	59.6	4.65	83.9	1,050	698	<4.00	-0.532	6.6				
	9/2/2021	0.418 J	233	0.688	0.110	0.147	20.1	287	52.2	3.98	75.2	1,140	588	<4.00	2.27	7.0				
	9/8/2021	0.357 J	257	0.442 J	0.0997 J	1.20	43.4	300	61.8	4.83	87.3	1,360	703	<4.00	-1.15	6.6				
	9/14/2021	0.372 J	250	0.511	0.118	1.11	42.3	285	58.7	4.81	81.7	988	730	<4.00	-4.44	6.4				
	9/21/2021	0.546	227	0.951	0.224	<0.0293	37.4	313	68.2	5.30	97.5	1,080	610	<4.00	7.72	6.6				
	9/29/2021	0.535	248	0.542	0.186	0.164	41.9	302	59.9	4.60	85.4	1,410	765	<4.00	-2.94	6.6				
	10/7/2021	0.454 J	235	0.582	1.10	<0.0293	40.5	323	65.5	4.79	88.3	1,310	765	<4.00	0.449	6.6				
	10/13/2021	0.459 J	238	0.608	0.198	1.10	40.9	252	52.7	3.97	75.6	1,030	765	<4.00	-10.6	6.7				
	10/21/2021	0.470 J	227	0.557	0.143	<0.0293	36.9	238	51.0	3.54	72.5	1,250	722	<4.00	-10.2	6.5				
	10/27/2021	0.444 J	238	0.469 J	0.193	0.0910 J	42.5	330	67.2	5.31	94.2	1,290	706	<4.00	3.95	6.7				
	11/5/2021	0.367 J	231	1.45	0.220	<0.0293	41.7	328	63.6	5.06	90.7	1,050	657	<4.00	5.76	6.9				
	11/11/2021	0.379 J	229	0.594	0.238	<0.0293	36.9	221	48.1	3.36	71.5	1,140	571	<4.00	-5.92	7.0				
	11/18/2021	0.560	247	0.397 J	0.176	<0.0293	44.3	276	50.8	4.29	76.4	1,350	698	<4.00	-5.71	6.6				
	11/24/2021	0.455 J	232	0.646	0.203	0.718	41.9	253	52.5	4.07	76.6	1,240	546	<4.00	-0.200	6.6				
	12/1/2021	0.497 J	233	0.652	0.144	<0.0293	42.0	284	55.9	4.31	82.4	1,040	644	<4.00	-0.133	6.9				
	12/8/2021	0.516	230	0.620	0.187	<0.0293	42.5	261	55.8	4.20	82.9	1,200	633	<4.00	-1.56	6.5				
	12/16/2021	0.490 J	228	0.528	0.251	<0.0293	42.1	282	55.3	4.13	81.9	1,280	649	<4.00	-0.883	6.4				
	12/22/2021	0.480 J	230	0.294 J	0.223	<0.0293	43.3	304	58.5	4.66	85.8	1,270	619	<4.00	3.67	6.4				
	12/29/2021	0.476 J	225	0.588	0.224	<0.0293	43.8	300	57.5	4.69	84.9	1,220	657	<4.00	1.62	6.6				
	1/6/2022	0.386 J	226	0.500	0.182	<0.0293	42.7	278	52.9	4.11	79.0	1,650	711	<4.00	-4.09	6.4				
	1/12/2022	0.438 J	223	0.561	0.178	<0.0293	42.8	254	49.2	3.60	71.9	1,090	633	<4.00	-4.90	6.1				
	1/19/2022	0.446 J	223	0.523	0.178	<0.0293	43.6	288	57.2	4.34	80.1	1,780	688	<4.00	-1.41	6.3				
	1/26/2022	0.440 J	220	0.580	0.181	0.0834 J	41.7	286	56.4	4.50	85.1	1,140	706	<4.00	-1.64	6.4				
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																		
	2/8/2022	0.780	329	1.24	<0.0391	0.420	62.0	272	58.5	4.77	97.0	1,410	756	<4.00	-11.40	6.5				
	2/16/2022	0.488 J	217	0.769	0.0551 J	0.349	27.9	212	46.2	3.76	74.5	1,070	555	<4.00	-6.59	6.6				
	2/25/2022	0.726	484	0.902	0.141	<0.0293	31.2	429	78.2	6.80	139	1,960	1,210	<4.00	-9.05	6.4				
	3/3/2022	0.606	380	1.76	0.220	0.175	39.8	410	78.2	7.36	137	2,130	1,190	<4.00	-6.76	6.3				
	3/9/2022	0.507	355	1.10	0.147	<0.0293	42.6	422	79.4	7.55	129	1,820	1,160	<4.00	-4.98	6.3				
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																		
	3/16/2022	0.380 J	229	0.464 J	0.208	<0.0293	42.2	258	55.9	4.48	85.6	1,190	673	<4.00	-4.29	6.4				
	3/24/2022	0.539	230	0.709	<0.0391	<0.0293	43.4	252	51.3	4.07	81.5	1,390	644	<4.00	-4.80	6.5				
	3/31/2022	0.515	223	0.690	0.239	<0.0293	44.0	245	52.7	3.79	77.2	1,220	641	<4.00	-5.18	6.4				
	4/6/2022	0.540	218	0.868	0.0931 J	<0.0293	42.4	256	50.3	3.90	76.6	1,220	619	<4.00	-2.94	6.4				
	4/13/2022	0.400 J	212	0.773	0.111	<0.0293	42.0	256	51.3	3.87	74.5	1,200	650	<4.00	-3.94	6.6				
	4/20/2022	0.496 J	218	0.651	0.268	<0.0293	44.6	238	48.7	4.05	75.0	1,260	686	<4.00	-8.77	6.6				
	4/28/2022	0.477 J	214	0.690	0.104	<0.0293	43.2	272	55.4	4.43	84.3	1,140	658	<4.00	-1.11	6.8				
	5/5/2022	0.352 J	217	0.567	0.737 J	1.93	41.8	233	49.1	3.67	82.4	1,210	659	<4.00	-7.39	6.6				
	5/10/2022	0.589	219	0.643	0.100	<0.0293	44.6	301	61.6	4.74	90.5	1,080	652	<4.00	2.74	6.4				
	5/19/2022	0.551	217	0.519	<0.0391	<0.0293	45.9	242	51.7	4.08	74.8	1,040	421	<4.00	5.76	6.7				
	5/26/2022	0.606	212	0.714	0.0986 J	2.77	41.2	215	38.7	2.93	66.7	1,240	683	<4.00	-11.5	6.2				
	6/1/2022	0.449 J	205	0.788	0.0622 J	<0.0293	37.2	219	42.0	3.22	67.7	1,100	402	<4.00	2.15	7.0				
	6/9/2022	0.395 J	215	0.332 J	0.0721 J	<0.0293	44.2	295	53.3	4.27	80.9	1,170	712	<4.00	-1.83	6.3				
	6/17/2022	0.282 J	204	0.643	0.151	<0.0293	43.9	190	35.3	2.54	59.9	1,160	619	<4.00	-16.7	6.4				
	6/23/2022	0.321 J	206	0.377 J	0.250	<0.0293	38.4	306	47.2	3.80	73.0	1,150	454	<4.00	11.3	6.5				
	6/29/2022	0.350 J	213	0.505	0.207	<0.0293	44.4	243	49.9	3.79	77.7	889	674	<4.00	-6.92	6.3				
	7/7/2022	0.425 J	214	0.609	<0.0391	<0.0293	46.0	251	50.6	3.88	77.0	1,470	592	<4.00	-2.28	6.5				
	7/13/2022	0.393 J	212	0.663	0.129	<0.0293	46.2	245	48.1	3.89	74.2	1,160	417	<4.00	5.53	6.3				
	7/20/2022	0.468 J	207	0.383 J	0.0538 J	<0.0293	47.5	251	51.8	4.12	77.2	1,170	742	<4.00	-8.12	6.4				
	7/27/2022	0.437 J	209	0.349 J	0.201	<0.0293	46.2	215	42.6	3.22	68.3	1,350	601	<4.00	-9.64	6.7				
	8/4/2022	0.483 J	211	0.453 J	0.236	<0.0293	45.4	199	39.8	3.04	65.6	1,300	600	<4.00	-13.2	6.4				
	8/10/2022	0.464 J	215	0.475 J	0.103	<0.0293	44.3	278	53.6	4.27	78.9	1,160	567	<4.00	3.02	6.5				
	8/18/2022	0.473 J	213	0.552	0.157	<0.0293	45.4	261	52.0	4.22	80.6	1,370	563	<4.00	0.748	6.5				
	8/24/2022	0.500	222	0.674	<0.100	<0.100	48.7	229	46.5	3.28	72.0	1,280	728	<4.00	-12.7	6.6				
8/31/2022	0.434 J	217	0.468 J	<0.0391	<0.0293	46.8	253	50.7	4.20	79.3	1,270	651	<4.00	-4.91	6.9					
9/15/2022	1.55	218	0.688	0.116	<0.0293	47.4	241	52.6	4.39	81.7	1,170	618	<4.00	-4.19	6.4					

TABLE 2
GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY
 Levey Well
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	(mg/L)													%	SU	
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9	
Levey Well	9/22/2022	0.468 J	217	0.316 J	0.546	<0.0293	52.8	179	39.9	3.11	66.4	1,250	613	<4.00	-17.7	6.4	
	9/28/2022	2.32	214	0.688	0.234	<0.0293	47.2	242	48.3	4.11	73.6	1,160	592	<4.00	-4.04	6.4	
	10/4/2022	0.515	200	0.740	0.396	<0.0293	45.0	242	50.2	4.07	78.2	706	456	<4.00	4.21	6.6	
	10/14/2022	0.495 J	212	0.655	0.464	<0.0293	49.1	208	42.7	3.22	68.5	1,250	719	<4.00	-16.5	6.3	
	10/19/2022	1.08 J	206	0.612 J	0.359	<0.0293	46.0	250	51.3	4.05	81.9	1,340	676	<4.00	-5.64	6.6	
	10/27/2022	0.412 J	201	0.631	0.0757 J	0.690	40.1	322	64.8	5.47	95.2	977	740	<4.00	3.53	6.4	
	11/2/2022	0.473 J	216	0.509	0.165	<0.0293	46.1	247	49.2	4.26	76.4	1,230	681	<4.00	-6.86	6.3	
	11/9/2022	0.461 J	218	0.683	0.0934 J	<0.0293	46.5	238	44.2	3.36	73.3	1,450	708	<4.00	-11.0	6.5	
	11/16/2022	0.480 J	219	0.493 J	0.154	<0.0293	47.5	250	50.0	4.20	78.0	1,340	611	<4.00	-3.43	6.8	
	11/30/2022	0.487 J	218	0.710	0.0811 J	<0.0293	44.9	208	43.2	3.12	70.9	1,270	618	<4.00	-11.7	6.7	
	12/9/2022	0.335 J	206	0.685	0.153	0.108	40.5	244	49.3	3.61	62.9	1,170	626	<4.00	-5.72	6.5	
	12/15/2022	0.311 J	211	0.628	0.137	<0.0293	40.5	254	48.3	4.05	76.3	956	440	<4.00	6.29	6.3	
	12/21/2022	0.392 J	214	0.732	0.144	<0.0293	44.5	258	49.1	4.69	80.4	1,130	656	<4.00	-3.79	6.5	
	12/29/2022	0.515	209	0.568	10.4	2.66	43.5	242	45.9	3.93	74.9	1,060	670	<4.00	-7.08	6.6	
	1/4/2023	Electrical Failure, Unable to Sample.															
	1/13/2023	0.562	292	0.202 J	0.227	<0.0293	35.2	393	71.7	6.96	125	1,800	949	<4.00	1.05	6.4	
	1/19/2023	0.658	304	0.191 J	0.109	<0.0293	53.7	450	84.0	7.71	133	1,730	1,140	<4.00	0.441	6.3	
	1/25/2023	0.525	298	0.207 J	0.0992 J	<0.0293	46.7	416	72.6	6.84	119	1,760	1,110	<4.00	-2.84	6.7	
	2/2/2023	0.609	309	<0.100	0.256	<0.0293	43.5	366	69.4	6.39	113	1,680	1,120	<4.00	-8.22	6.4	
	2/8/2023	0.514	224	0.443 J	0.108	<0.0293	44.6	228	46.7	4.18	78.0	1,230	704	<4.00	-11.0	6.7	
	2/17/2023	0.403 J	231	0.632	0.0839 J	<0.0293	50.5	234	46.5	3.96	74.4	1,190	651	<4.00	-9.14	6.5	
	2/22/2023	0.442 J	214	0.464 J	0.0849 J	<0.0293	46.8	246	50.4	4.19	78.6	1,160	732	<4.00	-8.94	6.3	
	3/3/2023	0.457 J	327	0.148 J	0.0946 J	<0.0293	60.9	376	67.6	6.40	117	1,500	921	<4.00	-2.26	6.3	
	3/8/2023	0.488 J	222	0.425 J	0.106	<0.0293	49.2	250	48.8	3.95	72.6	1,380	696	<4.00	-8.10	6.3	
	3/15/2023	0.453 J	220	0.314 J	0.0651 J	<0.0293	49.2	224	43.1	3.66	70.0	1,030	691	<4.00	-12.3	6.3	
	3/23/2023	0.454 J	221	0.896	0.0721 J	<0.0293	50.7	248	51.3	4.11	91.2	1,190	689	<4.00	-0.0255	6.5	
	3/29/2023	0.438 J	217	0.504	0.0578 J	0.157	46.3	254	50.8	4.44	79.9	1,130	684	<4.00	-5.81	6.3	
	4/6/2023	<0.0711	219	0.206 J	0.0769 J	<0.0293	47.4	249	49.4	4.08	79.7	1,080	680	<4.00	-6.66	6.7	
	4/14/2023	<0.0711	219	0.229 J	0.0834 J	<0.0293	49.4	224	45.2	3.78	71.8	1,200	608	<4.00	-8.07	6.6	
	4/26/2023	0.475 J	215	0.471 J	0.129	0.395	47.7	264	52.9	4.25	80.2	1,240	651	<4.00	-2.67	6.4	
	5/2/2023	<0.0711	225	0.331 J	0.321	<0.0293	54.1	302	56.0	4.60	86.7	1,290	688	<4.00	-0.0776	6.4	
	5/11/2023	0.400 J	216	0.400 J	10.4	2.66	44.9	236	51.7	4.41	82.0	1,680	637	<4.00	-7.60	6.5	
	5/15/2023	0.326 J	214	0.789	0.243	0.793	47.8	202	41.3	3.26	67.1	1,320	547	<4.00	-9.15	6.5	
	5/25/2023	0.348 J	217	0.617	0.0603 J	0.691	46.8	259	48.8	4.21	77.4	1,310	697	<4.00	-6.47	6.5	
	5/30/2023	0.353 J	231	0.154 J	0.351	0.664	45.5	187	37.8	2.87	66.2	979	400	<4.00	-6.63	7.1	
	6/9/2023	0.482 J	225	0.451 J	0.180	<0.0293	49.6	224	43.7	3.21	73.8	1,360	710	<4.00	-13.4	6.7	
	6/15/2023	0.372 J	230	0.474 J	0.139	0.348	49.7	255	49.6	3.91	81.1	1,380	679	<4.00	-6.66	6.5	
	6/23/2023	0.386 J	239	0.463 J	0.123	<0.0293	50.8	254	50.9	4.38	81.4	1,240	712	<4.00	-8.19	6.5	
	6/26/2023	0.327 J	218	0.301 J	0.0682 J	2.51	45.0	260	42.3	3.70	69.4	1,180	719	<4.00	-8.99	6.5	
	7/5/2023	0.308 J	210	0.211 J	0.0838 J	1.08	41.5	270	52.0	4.24	84.5	1,140	744	<4.00	-5.11	6.7	
	7/13/2023	0.312 J	221	0.211 J	0.0979 J	2.07	48.1	260	44.0	3.62	71.0	1,360	707	<4.00	-8.5	6.5	
	7/17/2023	0.326 J	224	0.145 J	0.0682 J	<0.0293	47.5	185	38.1	3.13	63.0	1,080	575	<4.00	-14.8	6.6	
	7/27/2023	0.489 J	300	0.280 J	<0.0391	0.977	47.1	389	71.1	7.20	109	1,880	1,010	<4.00	-3.06	6.4	
	7/31/2023	0.384 J	233	0.635	<0.0391	<0.0293	42.7	207	44.6	4.26	93.7	1,100	445	<4.00	-2.22	7.5	



TABLE 2
GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY
 Levey Well
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	(mg/L)														%	SU		
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH			
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9			
MW-1	5/26/2020	NA	363	0.913	0.998	1.03	283	NA											7.21
	6/30/2020	0.591	342	<0.500	0.145	<0.100	88.8	401	84.7	6.41	191	1,890	1,290	<4.00	NA	6.75			
	8/20/2020	0.634	339	<0.500	<0.100	<0.100	68.3	401	90.3	5.38	147	1,760	1,210	<4.00	NA	6.30			
	10/23/2020	NA	353	NA															
	11/24/2020	0.629	345	0.309 J	0.161	2.00	73.2	412	82.8	5.61	124	1,630	1,200	<4.00	0.400	6.45			
	12/18/2020	NA	375	NA				414	79.7	5.41	117	1,380	1,160	<4.00	1.30	6.58			
	12/23/2020	0.627	339	0.316 J	0.117	<0.0293	73.2	408	82.5	6.58	119	1,600	1,130	<4.00	2.10	6.56			
	12/30/2020	NA	347	NA														6.37	
	1/6/2021	NA	325	NA														6.51	
	1/12/2021	NA	359	NA									1,160	<4.00	NA	6.42			
	1/20/2021	NA	353	NA									1,160	<4.00	NA	6.34			
	1/27/2021	NA	334	NA									1,010	<4.00	NA	6.44			
	2/3/2021	NA	368	NA									1,130	<4.00	NA	6.38			
	2/10/2021	NA	339	NA									1,160	<4.00	NA	6.45			
	2/24/2021	NA	343	NA									1,070	<4.00	NA	6.45			
	3/4/2021	NA	339	NA									1,070	<4.00	NA	6.38			
	3/10/2021	NA	324	NA									1,020	<4.00	NA	6.34			
	3/17/2021	NA	330	NA									1,020	<4.00	NA	6.16			
	3/25/2021	NA	312	0.367 J	0.129	<0.100	77.5	NA					980	<4.00	NA	6.9			
	3/31/2021	NA	309	0.387 J	0.175	<0.0293	81.3	NA					977	<4.00	NA	6.7			
	4/8/2021	NA	290	0.515	0.0994 J	<0.0293	58.1	NA					933	<4.00	NA	6.5			
	4/15/2021	NA	272	0.583	0.107	<0.0293	54.0	NA					833	<4.00	NA	6.6			
	4/21/2021	NA	299	0.369 J	0.135	<0.0293	52.7	NA					927	<4.00	NA	6.5			
	4/28/2021	NA	315	0.315 J	0.119	<0.0293	57.8	NA					994	<4.00	NA	6.5			
	5/5/2021	NA	317	0.358 J	0.135	<0.0293	68.5	NA					1,020	<4.00	NA	6.5			
	5/13/2021	NA	270	0.492 J	0.125	0.729 J	55.6	NA					819	<4.00	NA	6.8			
	5/19/2021	NA	324	0.335 J	<0.0391	2.58	65.0	NA					1,070	<4.00	NA	6.5			
	5/27/2021	NA	325	0.380 J	0.128	0.148	70.3	NA					971	<4.00	NA	6.3			
	6/2/2021	NA	315	0.305 J	0.146	<0.0293	72.8	NA					979	<4.00	NA	6.5			
	6/10/2021	NA	295	0.561	0.130	1.44	64.7	NA					768	<4.00	NA	6.6			
	6/16/2021	NA	320	0.478 J	0.127	0.243	59.1	NA					811	<4.00	NA	6.7			
	6/22/2021	NA	311	0.478 J	0.119	1.65	56.9	NA					790	<4.00	NA	6.8			
	6/30/2021	NA	308	0.561	0.145	0.168	64.2	NA					813	<4.00	NA	6.7			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	325	0.547	0.127	<0.0293	75.9	NA					761	<4.00	NA	6.8			
	7/14/2021	NA	360	0.418 J	0.134	0.0880 J	112	NA					931	<4.00	NA	6.8			
	7/20/2021	NA	324	0.138 J	0.0457 J	<0.0293	81.5	NA					750	<4.00	NA	6.7			
	7/27/2021	NA	352	0.340 J	0.148	1.22	82.8	NA					786	<4.00	NA	6.7			
	8/5/2021	NA	336	0.426 J	0.117	<0.0293	79.0	NA					695	<4.00	NA	6.9			
	8/11/2021	NA	326	0.342 J	0.153	1.48	85.5	NA					735	<4.00	NA	6.6			
	8/19/2021	NA	334	0.227 J	0.149	1.36	81.9	NA					810	<4.00	NA	6.8			
	8/25/2021	NA	328	0.395 J	0.132	0.947 J	76.5	NA					809	<4.00	NA	6.8			
	9/2/2021	NA	325	0.311 J	0.105	<0.0293	74.7	NA					755	<4.00	NA	6.8			
	9/8/2021	NA	272	0.442 J	0.103	0.782 J	64.5	NA					584	<4.00	NA	6.9			
	9/14/2021	NA	332	0.276 J	0.103	0.776 J	98.4	NA					660	<4.00	NA	7.0			
	9/21/2021	NA	203	0.896	0.186	<0.0293	32.4	NA					419	<4.00	NA	6.9			
	9/29/2021	NA	232	0.659	0.168	0.0819 J	40.1	NA					505	<4.00	NA	6.9			
	10/7/2021	NA	253	0.626	0.186	<0.0293	58.2	NA					567	<4.00	NA	6.9			
	10/13/2021	NA	268	0.659	0.178	<0.0293	62.9	NA					564	<4.00	NA	8.1			
	10/21/2021	NA	293	0.409 J	0.144	<0.0293	81.1	NA					591	<4.00	NA	7.1			
	11/5/2021	NA	282	0.631	0.191	<0.0293	77.1	NA					571	<4.00	NA	7.0			
	11/11/2021	NA	311	0.309 J	0.258	<0.0293	89.9	NA					536	<4.00	NA	7.1			
	11/18/2021	NA	172	0.741	0.151	<0.0293	23.1	NA					314	<4.00	NA	7.4			
	11/24/2021	NA	267	0.429 J	0.220	0.549	81.4	NA					502	<4.00	NA	6.8			
	12/1/2021	NA	222	0.596	0.141	<0.0293	61.0	NA					390	<4.00	NA	7.3			
	12/8/2021	NA	226	0.358 J	0.162	<0.0293	66.0	NA					484	<4.00	NA	6.9			
	12/16/2021	NA	174	0.504	0.143	<0.0293	49.9	NA					398	<4.00	NA	6.9			
	12/22/2021	NA	163	0.517	0.240	<0.0293	40.2	NA					312	<4.00	NA	7.1			
	12/29/2021	NA	142	0.591	0.205	0.295	42.2	NA					302	<4.00	NA	7.3			
	1/6/2022	NA	138	0.471 J	0.180	<0.0293	43.2	NA					335	<4.00	NA	7.0			
	1/12/2022	NA	149	0.491 J	0.154	0.0428 J	42.1	NA					326	<4.00	NA	6.7			
	1/19/2022	NA	141	0.532	0.145	0.227	45.1	NA					324	<4.00	NA	7.0			
	1/26/2022	NA	142	0.548	0.177	0.150	44.7	NA					282	<4.00	NA	7.1			
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																	
	2/8/2022	NA	189	0.631	0.0688 J	0.358	49.6	NA					380	<4.00	NA	6.9			
	2/16/2022	NA	151	0.712	0.0561 J	0.344	41.5	NA					384	<4.00	NA	7.1			
	2/25/2022	NA	171	0.739	0.125	0.156	50.3	NA					342	<4.00	NA	7.1			
	3/3/2022	NA	158	0.531	0.198	0.181	45.9	NA					360	<4.00	NA	6.9			
3/9/2022	NA	148	0.454 J	0.170	<0.0293	45.4	NA					323	<4.00	NA	7.2				
3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																		



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 Levey Well
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	(mg/L)														Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	% Cation-Anion Balance	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium									
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9				
MW-1	3/16/2022	NA	145	0.546	0.147	<0.0293	38.1			NA			339	<4.00	NA	7.0				
	3/24/2022	NA	147	0.610	<0.0391	<0.0293	42.9			NA			297	<4.00	NA	7.2				
	3/31/2022	NA	143	0.568	0.164	<0.0293	40.4			NA			275	<4.00	NA	7.1				
	4/6/2022	NA	133	0.677	0.186	<0.0293	39.7			NA			262	<4.00	NA	7.1				
	4/13/2022	NA	129	0.767	<0.0391	<0.0293	40.9			NA			259	<4.00	NA	7.6				
	4/20/2022	NA	173	0.574	0.152	0.176	42.4			NA			362	<4.00	NA	7.0				
	4/28/2022	NA	136	0.608	0.0700 J	0.0717 J	41.7			NA			300	<4.00	NA	7.5				
	5/5/2022	NA	118	0.746	<0.0391	1.75	41.1			NA			253	<4.00	NA	7.2				
	5/10/2022	NA	116	0.709	0.0815 J	<0.0293	43.9			NA			250	<4.00	NA	7.2				
	5/19/2022	NA	106	0.643	0.0743 J	0.199	41.0			NA			262	<4.00	NA	7.1				
	5/26/2022	NA	98.7	0.720	0.0777 J	0.809	44.7			NA			256	<4.00	NA	7.2				
	6/1/2022	NA	100	0.690	0.0629 J	<0.0293	46.4			NA			240	<4.00	NA	7.4				
	6/9/2022	NA	99.9	0.743	<0.0391	<0.0293	46.6			NA			246	<4.00	NA	7.1				
	6/17/2022	NA	83.5	0.710	0.146	0.275	47.9			NA			253	<4.00	NA	7.3				
	6/23/2022	NA	83.9	0.616	0.238	<0.0293	47.7			NA			258	<4.00	NA	7.2				
	6/29/2022	NA	84.8	0.644	0.199	0.556	48.0			NA			264	<4.00	NA	7.2				
	7/7/2022	NA	83.7	0.660	0.0413 J	0.0458 J	47.7			NA			238	<4.00	NA	7.4				
	7/13/2022	NA	91.3	0.778	0.102	<0.0293	49.2			NA			253	<4.00	NA	7.2				
	7/20/2022	NA	81.5	0.766	<0.0391	<0.0293	48.5			NA			249	<4.00	NA	7.2				
	7/27/2022	NA	85.8	0.766	0.0482 J	<0.0293	47.2			NA			268	<4.00	NA	7.7				
	8/4/2022	NA	77.5	0.633	0.126	0.118	43.1			NA			253	<4.00	NA	7.2				
	8/10/2022	NA	68.3	0.737	<0.0391	0.212	40.9			NA			278	<4.00	NA	7.2				
	8/18/2022	NA	77.7	0.752	0.0696 J	0.154	39.4			NA			262	<4.00	NA	7.0				
	8/24/2022	NA	92.0	0.739	<0.100	<0.100	40.8			NA			273	<4.00	NA	7.2				
	8/31/2022	NA	85.9	0.628	<0.0391	<0.0293	36.7			NA			277	<4.00	NA	7.4				
	9/15/2022	NA	86.4	1.03	0.0909 J	0.206	33.4			NA			277	<4.00	NA	7.0				
	9/22/2022	NA	95.8	0.585	0.518	<0.0293	38.4			NA			280	<4.00	NA	7.3				
	9/28/2022	NA	91.2	0.702	<0.0391	<0.0293	32.8			NA			285	<4.00	NA	7.3				
	10/4/2022	NA	75.6	0.803	0.376	0.201	33.7			NA			272	<4.00	NA	7.2				
	10/14/2022	NA	81.0	0.807	0.360	0.195	33.1			NA			266	<4.00	NA	7.3				
	10/19/2022	NA	136	<0.100	<0.0391	<0.0293	19.2			NA			283	<4.00	NA	7.4				
	10/27/2022	NA	80.4	0.750	0.0601 J	0.423	29.8			NA			277	<4.00	NA	7.4				
	11/2/2022	NA	80.0	0.681	0.120	0.154	29.8			NA			252	<4.00	NA	7.2				
	11/9/2022	NA	81.1	0.746	0.141	0.117	32.5			NA			294	<4.00	NA	7.4				
	11/16/2022	NA	82.2	0.738	0.120	0.384	30.9			NA			282	<4.00	NA	7.3				
	11/30/2022	NA	88.1	0.602	0.140	0.141	45.4			NA			300	<4.00	NA	7.3				
	12/9/2022	NA	83.7	0.809	0.0610 J	0.247	44.2			NA			309	<4.00	NA	7.5				
	12/15/2022	NA	82.1	0.786	<0.0391	0.121	44.3			NA			348	<4.00	NA	7.2				
	12/21/2022	NA	84.4	0.676	0.0802 J	<0.0293	43.6			NA			377	<4.00	NA	7.3				
	12/29/2022	NA	77.3	0.555	0.211	0.310	33.4			NA			409	<4.00	NA	7.1				
	1/4/2023	NA	75.9	0.863	0.0857 J	<0.0293	39.7			NA			354	<4.00	NA	7.4				
	1/13/2023	NA	76.2	0.600	0.208	0.266	41.1			NA			357	<4.00	NA	7.2				
	1/19/2023	NA	82.6	0.624	<0.0391	<0.0293	49.2			NA			340	<4.00	NA	7.1				
	1/25/2023	NA	73.7	0.631	0.0564 J	0.149	47.7			NA			363	<4.00	NA	7.4				
	2/2/2023	NA	75.4	0.670	0.223	0.196	47.2			NA			329	<4.00	NA	7.1				
	2/8/2023	NA	84.5	0.607	0.0542 J	0.133	54.7			NA			360	<4.00	NA	7.2				
	2/17/2023	NA	102	0.763	<0.0391	<0.0293	65.2			NA			432	<4.00	NA	7.5				
	2/22/2023	NA	87.3	0.528	<0.0391	<0.0293	55.6			NA			418	<4.00	NA	7.1				
	3/3/2023	NA	70.8	0.703	0.0671 J	0.0580 J	47.8			NA			310	<4.00	NA	7.2				
	3/8/2023	NA	94.9	0.471 J	0.0666 J	<0.0293	55.9			NA			397	<4.00	NA	7.0				
3/15/2023	NA	93.9	0.636	<0.0391	<0.0293	51.0			NA			412	<4.00	NA	7.1					
3/23/2023	NA	92.9	0.485 J	0.0908 J	<0.0293	50.9			NA			398	<4.00	NA	7.1					
3/29/2023	NA	91.6	0.619	<0.0391	0.293	46.7			NA			474	<4.00	NA	7.1					
4/6/2023	NA	99.3	0.262 J	0.0504 J	<0.0293	55.6			NA			443	<4.00	NA	7.2					
4/14/2023	NA	87.6	0.748	0.0530 J	<0.0293	44.5			NA			555	<4.00	NA	7.4					
4/26/2023	NA	95.7	0.537	0.0898 J	0.439	53.1			NA			539	<4.00	NA	7.2					
5/2/2023	NA	95.2	0.966	0.406	<0.0293	51.8			NA			548	<4.00	NA	7.1					
5/11/2023	NA	104	0.676	0.174	1.59	59.7			NA			580	<4.00	NA	7.2					
5/15/2023	NA	97.6	0.859	<0.0391	0.998	53.6			NA			579	<4.00	NA	7.0					
5/25/2023	NA	86.5	0.585	0.0886 J	0.882	31.7			NA			687	<4.00	NA	7.0					
5/30/2023	NA	84.8	<0.100	0.432	1.32	57.2			NA			692	<4.00	NA	7.0					
6/9/2023	NA	96.5	0.291 J	0.149	0.158	21.0			NA			823	<4.00	NA	7.0					
6/15/2023	NA	97.7	0.451 J	0.0846 J	0.491	43.0			NA			667	<4.00	NA	6.9					
6/23/2023	NA	98.2	0.469 J	0.0975 J	0.178	34.8			NA			754	<4.00	NA	7.3					
6/26/2023	NA	94.3	0.347 J	0.0804 J	2.38	35.8			NA			738	<4.00	NA	6.9					
7/5/2023	NA	104	0.274 J	0.0657 J	0.904	57.9			NA			665	<4.00	NA	7.2					
7/13/2023	NA	104	0.270 J	0.0760 J	2.02	45.3			NA			738	<4.00	NA	6.9					
7/17/2023	NA	98.4	0.209 J	0.0655 J	<0.0293	42.6			NA			769	<4.00	NA	6.9					
7/27/2023	NA	101	0.536	0.183	0.701	53.2			NA			651	<4.00	NA	6.9					
7/31/2023	NA	108	0.415 J	<0.0391	<0.0293	61.5			NA			685	<4.00	NA	7.3					



TABLE 2
GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY
 Levey Well
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	(mg/L)														%	SU				
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance						
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9					
MW-2	5/26/2020	NA	106	0.341 J	1.920	0.639	120	NA													6.32
	6/30/2020	0.535	115	<0.500	1.13	0.656	111	478	59.6	6.66	102	1,320	1,320	<4.00	NA		6.36				
	8/20/2020	0.603	150	<0.500	1.10	0.439	122	559	73.5	7.46	102	1,700	1,350	<4.00	NA		6.01				
	10/23/2020	NA	107	NA																	
	11/24/2020	0.565	180	0.172 J	1.08	0.557	136	841	85.5	12.8	116	1,670	1,450	<4.00	15.4		6.30				
	12/18/2020	NA	153	NA				494	64.9	6.63	98.0	1,410	1,380	<4.00	3.20		6.29				
	12/23/2020	0.621	165	0.179 J	1.11	0.639	126	472	65.7	5.96	101	1,810	1,430	<4.00	0.300		6.27				
	12/30/2020	NA	153	NA																6.15	
	1/6/2021	NA	124	NA																6.24	
	1/12/2021	NA	141	NA										1,350	<4.00	NA		6.20			
	1/20/2021	NA	133	NA										1,360	<4.00	NA		6.12			
	1/27/2021	NA	140	NA										1,360	<4.00	NA		6.24			
	2/3/2021	NA	178	NA										1,390	<4.00	NA		6.17			
	2/10/2021	NA	133	NA										1,380	<4.00	NA		6.19			
	2/24/2021	NA	146	NA										1,370	<4.00	NA		6.17			
	3/4/2021	NA	166	NA										1,380	<4.00	NA		6.07			
	3/10/2021	NA	175	NA										1,390	<4.00	NA		6.14			
	3/17/2021	NA	163	NA										1,400	<4.00	NA		5.87			
	3/25/2021	NA	161	0.183 J	0.835	0.425	119	NA						1,420	<4.00	NA		6.5			
	3/31/2021	NA	102	0.299 J	0.714	1.13	99.9	NA						1,330	<4.00	NA		6.4			
	4/8/2021	NA	157	0.223 J	0.784	0.549	122	NA						1,430	<4.00	NA		6.2			
	4/15/2021	NA	136	0.255 J	0.711	0.683	115	NA						1,380	<4.00	NA		6.1			
	4/21/2021	NA	114	0.157 J	0.650	0.856	101	NA						1,340	<4.00	NA		6.1			
	4/28/2021	NA	155	0.178 J	0.692	0.511	118	NA						1,380	<4.00	NA		6.2			
	5/5/2021	NA	122	0.198 J	0.704	0.609	105	NA						1,350	<4.00	NA		6.3			
	5/13/2021	NA	104	0.199 J	0.686	1.02	98.3	NA						1,320	<4.00	NA		6.3			
	5/19/2021	NA	142	0.171 J	0.633	0.435	120	NA						1,370	<4.00	NA		6.2			
	5/27/2021	NA	147	0.206 J	0.689	0.889	120	NA						1,260	<4.00	NA		6.5			
	6/2/2021	NA	119	0.168 J	0.647	0.549	103	NA						1,250	<4.00	NA		6.2			
	6/10/2021	NA	151	0.252 J	0.714	2.77	123	NA						1,260	<4.00	NA		6.1			
	6/16/2021	NA	118	0.205 J	0.613	1.36	104	NA						1,208	<4.00	NA		6.5			
	6/22/2021	NA	122	0.171 J	0.593	0.969	105	NA						1,260	<4.00	NA		6.5			
	6/30/2021	NA	111	0.417 J	0.633	1.37	102	NA						1,230	<4.00	NA		6.4			
	7/1/2021		Levey Well Now Running Full Time																		
	7/7/2021	NA	110	0.257 J	0.543	0.713	98.2	NA						1,120	<4.00	NA		6.4			
	7/14/2021	NA	187	0.233 J	0.752	0.797	124	NA						1,350	<4.00	NA		6.4			
	7/20/2021	NA	123	0.132 J	0.460	0.659	107	NA						1,280	<4.00	NA		6.3			
	7/27/2021	NA	113	0.134 J	0.607	0.516 J	100	NA						1,250	<4.00	NA		6.4			
	8/5/2021	NA	120	0.189 J	0.660	0.552	103	NA						1,200	<4.00	NA		6.5			
	8/11/2021	NA	115	0.181 J	0.624	3.02	101	NA						1,300	<4.00	NA		6.3			
	8/19/2021	NA	122	0.104 J	0.630	1.73	104	NA						1,290	<4.00	NA		6.4			
	8/25/2021	NA	122	0.191 J	0.639	0.603	103	NA						1,270	<4.00	NA		6.5			
	9/2/2021	NA	110	<0.100	0.536	0.595	98.1	NA						1,320	<4.00	NA		6.4			
	9/8/2021	NA	105	<0.100	0.540	0.590	97.3	NA						1,280	<4.00	NA		6.4			
	9/14/2021	NA	124	<0.100	0.542	0.386	107	NA						1,270	<4.00	NA		6.4			
	9/21/2021	NA	90.5	0.426 J	0.638	1.04	89.1	NA						1,250	<4.00	NA		6.3			
	9/29/2021	NA	133	0.245 J	0.631	0.982	117	NA						1,300	<4.00	NA		6.4			
	10/7/2021	NA	108	0.201 J	0.581	0.564	96.6	NA						1,280	<4.00	NA		6.4			
	10/13/2021	NA	178	0.140 J	0.734	0.507	131	NA						1,320	<4.00	NA		6.5			
	10/21/2021	NA	102	0.133 J	0.635	0.787	93.3	NA						1,270	<4.00	NA		6.5			
11/5/2021	NA	141	0.363 J	<0.0391	0.454	108	NA						1,250	<4.00	NA		6.6				
11/11/2021	NA	115	<0.100	0.677	0.374	97.6	NA						1,240	<4.00	NA		6.5				
11/18/2021	NA	103	<0.100	0.600	1.28	98.1	NA						1,140	<4.00	NA		6.6				
11/24/2021	NA	163	<0.500	0.680	0.539	127	NA						1,500	<4.00	NA		6.3				
12/1/2021	NA	120	0.148 J	0.604	0.511	103	NA						1,240	<4.00	NA		6.9				
12/8/2021	NA	188	<0.100	0.759	0.684	123	NA						1,250	<4.00	NA		6.3				
12/16/2021	NA	134	<0.100	0.529	<0.0293	113	NA						1,180	<4.00	NA		6.3				
12/22/2021	NA	163	<0.100	0.670	0.462	122	NA						1,280	<4.00	NA		6.4				
12/29/2021	NA	210	<0.100	1.02	0.415	115	NA						1,280	<4.00	NA		6.3				
1/6/2022	NA	106	<0.100	0.559	0.746	97.5	NA						1,300	<4.00	NA		6.4				
1/12/2022	NA	73.9	0.288 J	0.506	1.47	92.2	NA						1,150	<4.00	NA		6.2				
1/19/2022	NA	120	<0.100	0.591	0.757	104	NA						1,290	<4.00	NA		6.1				
1/26/2022	NA	120	<0.100	0.592	0.608	100	NA						1,270	<4.00	NA		6.1				
2/2/2022		Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																			
2/8/2022	NA	148	0.156 J	0.683	1.03	125	NA						1,290	<4.00	NA		6.1				
2/16/2022	NA	186	0.409 J	0.809	0.338	113	NA						1,320	<4.00	NA		6.2				
2/25/2022	NA	133	0.704	0.536	0.647	154	NA						1,280	<4.00	NA		6.3				
3/3/2022	NA	126	<0.100	0.776	0.992	112	NA						1,360	<4.00	NA		6.1				
3/9/2022	NA	167	<0.100	0.789	2.12	133	NA						1,330	<4.00	NA		6.2				
3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																			
3/16/2022	NA	165	<0.100	0.890	1.47	135	NA						1,350	<4.00	NA		6.2				



TABLE 2
GROUNDWATER SAMPLING (General Water Chemistry) ANALYTICAL DATA SUMMARY
 Levey Well
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417001 / 03B1417002

Sample Designation	Date	(mg/L)														%	SU
		Bromide	Chloride	Fluoride	Nitrate as N	Nitrite as N	Sulfate	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Cation-Anion Balance	pH	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	250.0	1.6	10.0	1.0	NE	NE	NE	NE	NE	1,000.0	NE	NE	NE	6-9	
MW-2	3/24/2022	NA	140	<0.100	<0.0391	0.389	120			NA			1,320	<4.00	NA	6.3	
	3/31/2022	NA	150	<0.100	<0.0391	1.65	106			NA			1,340	<4.00	NA	6.3	
	4/6/2022	NA	130	0.175 J	0.619	1.60	111			NA			1,360	<4.00	NA	6.2	
	4/13/2022	NA	135	0.271 J	0.589	1.67	108			NA			1,380	<4.00	NA	6.5	
	4/20/2022	NA	198	0.174 J	0.966	0.722	121			NA			1,330	<4.00	NA	6.4	
	4/28/2022	NA	156	0.172 J	0.711	0.434	118			NA			1,380	<4.00	NA	6.4	
	5/5/2022	NA	116	0.229 J	0.586	11.5	112			NA			1,330	<4.00	NA	6.3	
	5/10/2022	NA	134	0.230 J	0.548	1.83	120			NA			1,320	<4.00	NA	6.3	
	5/19/2022	NA	133	0.116 J	<0.0391	0.373	118			NA			1,380	<4.00	NA	6.2	
	5/26/2022	NA	107	0.196 J	0.392	1.14	104			NA			1,320	<4.00	NA	6.0	
	6/1/2022	NA	130	0.107 J	0.481	1.47	116			NA			1,340	<4.00	NA	6.3	
	6/9/2022	NA	103	<0.100	0.330	0.236	103			NA			1,320	<4.00	NA	6.2	
	6/17/2022	NA	99.0	0.213 J	0.395	0.702	102			NA			1,290	<4.00	NA	6.4	
	6/23/2022	NA	109	<0.100	0.494	5.21	107			NA			1,270	<4.00	NA	6.3	
	6/29/2022	NA	82.6	0.111 J	0.351	0.827	89.7			NA			1,330	<4.00	NA	6.2	
	7/7/2022	NA	107	0.141 J	0.399	0.440	98.3			NA			1,300	<4.00	NA	6.4	
	7/13/2022	NA	95.3	0.262 J	0.306	1.23	100			NA			1,280	<4.00	NA	6.2	
	7/20/2022	NA	134	<0.100	0.485	1.46	122			NA			1,360	<4.00	NA	6.3	
	7/27/2022	NA	101	<0.100	0.403	3.86	105			NA			1,340	<4.00	NA	6.4	
	8/4/2022	NA	107	0.112 J	0.451	0.477	99.9			NA			1,250	<4.00	NA	6.2	
	8/10/2022	NA	89.4	0.189 J	0.189	0.210	97.2			NA			1,260	<4.00	NA	6.3	
	8/18/2022	NA	99.1	0.122 J	0.333	0.303	100			NA			1,280	<4.00	NA	6.3	
	8/24/2022	NA	110	0.172 J	0.282	0.427	103			NA			1,290	<4.00	NA	6.3	
	8/31/2022	NA	94.8	<0.100	0.175	0.238	94.4			NA			1,280	<4.00	NA	6.3	
	9/15/2022	NA	94.4	0.538	0.232	2.31	98.7			NA			1,320	<4.00	NA	6.3	
	9/22/2022	NA	94.4	0.260 J	0.650	0.481	105			NA			1,320	<4.00	NA	6.3	
	9/28/2022	NA	91.2	0.498 J	0.261	<0.0293	92.5			NA			1,280	<4.00	NA	6.3	
	10/4/2022	NA	88.9	0.143 J	0.497	0.189	97.0			NA			1,320	<4.00	NA	6.2	
	10/14/2022	NA	82.6	0.101 J	<0.0391	0.0760 J	84.6			NA			1,320	<4.00	NA	6.2	
	10/19/2022	NA	51.2	<0.100	0.101	<0.0293	48.5			NA			1,290	<4.00	NA	6.5	
	10/27/2022	NA	124	0.165 J	0.319	0.871	104			NA			1,340	<4.00	NA	6.3	
	11/2/2022	NA	91.1	0.148 J	0.221	0.947	92.9			NA			1,330	<4.00	NA	6.2	
	11/9/2022	NA	97.8	0.161 J	0.273	0.366	101			NA			1,430	<4.00	NA	6.4	
	11/16/2022	NA	86.0	0.180 J	0.206	0.579	91.4			NA			1,300	<4.00	NA	6.6	
	11/30/2022	NA	90.4	0.133 J	0.264	0.168	91.1			NA			1,300	<4.00	NA	6.4	
	12/9/2022	NA	78.0	0.158 J	0.217	0.785	82.5			NA			1,290	<4.00	NA	6.4	
	12/15/2022	NA	100	0.120 J	0.331	1.64	91.2			NA			1,140	<4.00	NA	6.2	
	12/21/2022	NA	94.8	0.212 J	0.252	1.16	99.5			NA			1,270	<4.00	NA	6.3	
	12/29/2022	NA	124	0.114 J	0.527	0.338	95.6			NA			1,250	<4.00	NA	6.5	
	1/4/2023	NA	92.6	0.126 J	0.318	1.23	88.2			NA			1,140	<4.00	NA	6.4	
	1/13/2023	NA	72.6	0.112 J	0.227	0.381	81.1			NA			1,210	<4.00	NA	6.4	
	1/19/2023	NA	96.5	0.135 J	0.185	0.320	96.7			NA			1,270	<4.00	NA	6.2	
	1/25/2023	NA	83.2	0.133 J	0.128	0.416	87.9			NA			1,110	<4.00	NA	6.5	
	2/2/2023	NA	80.8	<0.100	0.273	0.334	84.7			NA			1,180	<4.00	NA	6.2	
	2/8/2023	NA	89.2	<0.100	0.180	0.392	92.3			NA			1,300	<4.00	NA	6.3	
	2/17/2023	NA	89.9	0.226 J	0.194	0.178	96.2			NA			1,300	<4.00	NA	6.4	
	2/22/2023	NA	98.9	0.113 J	0.606	0.162	70.9			NA			1,310	<4.00	NA	6.1	
	3/3/2023	NA	130	<0.100	0.450	0.204	95.4			NA			1,200	<4.00	NA	6.2	
	3/8/2023	NA	86.9	<0.100	0.139	0.239	94.5			NA			1,230	<4.00	NA	6.3	
	3/15/2023	NA	89.8	<0.100	0.190	0.389	95.7			NA			1,190	<4.00	NA	6.2	
3/23/2023	NA	74.9	0.138 J	0.107	0.208	88.5			NA			1,250	<4.00	NA	6.3		
3/29/2023	NA	81.8	<0.100	0.150	0.975	90.9			NA			1,250	<4.00	NA	6.2		
4/6/2023	NA	83.9	<0.100	0.112	<0.0293	91.2			NA			1,300	<4.00	NA	6.5		
4/14/2023	NA	154	0.533	0.577	<0.0293	99.0			NA			1,380	<4.00	NA	6.8		
4/26/2023	NA	78.7	<0.100	0.194	1.49	89.3			NA			1,320	<4.00	NA	6.4		
5/2/2023	NA	78.4	<0.100	0.508	0.464	94.5			NA			1,310	<4.00	NA	6.3		
5/11/2023	NA	90.3	0.159 J	1.62	0.427	92.1			NA			1,280	<4.00	NA	6.4		
5/15/2023	NA	77.7	<0.100	0.886	0.245	86.7			NA			1,210	<4.00	NA	6.3		
5/25/2023	NA	74.3	0.113 J	0.166	1.47	81.9			NA			1,330	<4.00	NA	6.3		
5/30/2023	NA	77.2	<0.100	0.551	0.721	92.1			NA			1,340	<4.00	NA	6.3		
6/9/2023	NA	73.4	0.129 J	0.245	0.720	87.1			NA			1,310	<4.00	NA	6.4		
6/15/2023	NA	78.0	0.172 J	0.197	1.01	89.6			NA			1,310	<4.00	NA	6.4		
6/23/2023	NA	99.1	0.463 J	0.110	0.318	38.7			NA			788	<4.00	NA	7.4		
6/26/2023	NA	76.0	<0.100	0.162	6.73	90.5			NA			1,340	<4.00	NA	6.4		
7/5/2023	NA	72.5	<0.100	0.135	4.20	87.1			NA			1,290	<4.00	NA	6.4		
7/13/2023	NA	77.8	<0.100	0.119	3.29	96.3			NA			1,310	<4.00	NA	6.4		
7/17/2023	NA	74.1	0.478 J	0.126	<0.0293	103			NA			1,280	<4.00	NA	6.3		
7/27/2023	NA	75.4	0.181 J	0.217	1.38	88.6			NA			1,270	<4.00	NA	6.3		
7/31/2023	NA	71.5	<0.100	<0.0391	0.450	94.9			NA			1,330	<4.00	NA	6.8		

NOTES:

SU - standard units

mg/L - milligrams per Liter

NE - not established

NA - not analyzed

J - The target analyte was positively identified below the quantitation limit and above the detection limit.

Concentrations highlighted in yellow exceed the NMACHuman Health Standards



TABLE 3
GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY
 South Hobbs G/SA Unit
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417002

Sample Designation	Date	(mg/L)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-1	5/26/2020	<0.495	163	<0.943	1.48	<0.910	1.48	22.9
	6/30/2020	<5.00	648	<2.34	<2.34	<2.34	<2.34	21.9
	8/20/2020	<5.00	596	2.35	3.18	<2.26	5.53	23.7
	11/24/2020	<0.495	756	<0.907	<0.838	<0.838	<0.8380	19.1
	12/18/2020	<0.495	432	<0.909	<0.840	<0.840	<0.840	15.8
	12/23/2020	<0.495	553	<0.895	1.81 J	<0.827	1.81 J	15.5
	12/30/2020	<0.495	1,170	<0.917	<0.847	<0.847	<0.847	13.1
	1/6/2021	<0.495	585	<0.897	<0.829	<0.829	<0.829	12.7
	1/12/2021	<0.495	731	<0.891	<0.823	<0.823	<0.823	14.6
	1/20/2021	0.600 J	667	<0.889	<0.821	<0.821	<0.821	17.6
	1/27/2021	0.800 J	668	<0.909	<0.840	<0.840	<0.840	18.0
	2/3/2021	<0.495	699	<0.907	<0.838	<0.838	<0.838	20.6
	2/10/2021	1.20 J	423	1.66 J	<0.828	<0.828	1.66 J	14.1
	2/24/2021	0.600 J	448	<0.884	<0.817	<0.817	<0.817	18.0
	3/4/2021	<0.495	515	3.04	1.03 J	<0.846	4.07	18.8
	3/10/2021	1.20 J	499	<0.878	<0.811	<0.811	<0.811	18.6
	3/17/2021	<0.495	378	<0.886	<0.819	<0.819	<0.819	19.1
	3/25/2021	<0.495	333	17.2	1.00 J	<0.867	18.2	20.2
	3/31/2021	<0.495	526	<0.893	<0.825	<0.825	<0.825	18.4
	4/8/2021	<0.495	364	2.57 J	1.55 J	<0.867	4.12 J	18.9
	4/15/2021	<0.495	418	<0.887	<0.887	1.72 J	1.72 J	20.5
	4/21/2021	<0.495	415	<0.898	2.05 J	<0.867	2.05 J	18.8
	4/28/2021	<0.495	689	<0.890	1.19 J	<0.859	1.19 J	18.9
	5/5/2021	<0.495	647	<0.890	<0.890	<0.859	<0.890	18.8
	5/13/2021	<0.495	259	<0.893	<0.893	<0.862	<0.893	19.0
	5/19/2021	<0.495	679	<0.893	<0.893	<0.862	<0.893	21.5
	5/27/2021	<0.495	973	<0.923	<0.923	<0.891	<0.923	20.6
	6/2/2021	<0.495	619	<0.918	<0.918	<0.886	<0.918	18.1
	6/10/2021	<0.495	385	<0.915	<0.915	<0.883	<0.915	22.0
	6/16/2021	<0.495	323	<0.926	<0.926	<0.894	<0.926	18.2
	6/22/2021	<0.495	250	<0.938	<0.938	<0.905	<0.938	22.1
	6/30/2021	<0.495	324	<0.923	<0.923	<0.891	<0.923	21.0
	7/1/2021	Levey Well Now Running Full Time						
	7/7/2021	<0.495	241	<0.901	<0.901	<0.869	<0.901	18.4
	7/14/2021	<0.495	295	<0.991	<0.957	<0.991	<0.991	19.0
	7/20/2021	<0.495	321	<0.938	<0.938	<0.905	<0.938	19.8
	7/27/2021	<0.495	321	<0.906	<0.906	<0.875	<0.906	22.0
	8/5/2021	<0.495	196	<0.950	<0.950	<0.917	<0.950	21.9
	8/11/2021	<0.495	369	<0.932	<0.932	<0.900	<0.932	19.9
	8/19/2021	<0.495	457	<0.950	<0.950	<0.917	<0.950	20.8
	8/25/2021	<0.495	477	<0.918	<0.918	<0.886	<0.918	20.0
	9/2/2021	<0.495	416	<0.935	<0.935	<0.902	<0.935	20.6
	9/8/2021	<0.495	280	<0.953	<0.953	<0.920	<0.953	21.4
	9/14/2021	<0.495	289	<0.932	0.978 J	<0.900	0.978 J	19.3
	9/21/2021	1.00 J	105	<0.918	<0.918	<0.886	<0.918	18.0
	9/29/2021	<0.495	127	<0.998	<0.998	<0.963	<0.998	18.7
	10/7/2021	<0.495	143	<0.923	<0.923	<0.891	<0.923	18.0
	10/13/2021	<0.495	8.85	<0.950	<0.950	<0.917	<0.950	20.7
	10/21/2021	<0.495	434	<0.918	<0.918	<0.886	<0.918	19.9
	11/5/2021	<0.495	114	<1.03	<1.03	<0.993	<1.03	22.9
	11/11/2021	<0.495	563	<0.923	<0.923	<0.891	<0.923	19.3
	11/18/2021	<0.495	24.9	1.05 J	<0.969	<0.935	1.05 J	19.0
	11/24/2021	<5.00	159	<4.70	<4.70	<4.70	<4.70	19.7
	12/1/2021	<0.495	39.0	<0.935	<0.935	<0.902	<0.935	19.4
	12/8/2021	<0.495	122	<0.929	<0.929	<0.897	<0.929	18.1
	12/16/2021	<0.495	69.3	<0.962	<0.962	<0.929	<0.962	18.0
	12/22/2021	<0.495	49.5	1.34 J	<0.941	<0.908	1.34 J	21.5
	12/29/2021	<0.495	50.2	<0.935	<0.935	<0.902	<0.935	18.1



TABLE 3
GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY
 South Hobbs G/SA Unit
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417002

Sample Designation	Date	(mg/L)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-1	1/6/2022	<0.495	67.0	<0.932	<0.932	<0.900	<0.932	18.0
	1/12/2022	<0.495	130	0.960 J	1.06 J	<0.900	2.02 J	21.7
	1/19/2022	<0.495	56.4	<0.912	<0.912	<0.880	<0.912	18.0
	1/26/2022	<0.495	44.7	<0.898	<0.898	<0.867	<0.898	18.8
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.						
	2/8/2022	<0.495	95.7	<0.895	<0.895	<0.864	<0.895	20.8
	2/16/2022	<0.495	61.0	<0.877	<0.877	<0.846	<0.877	18.7
	2/25/2022	<0.495	54.2	<0.923	<0.923	<0.891	<0.923	20.0
	3/3/2022	<0.495	90.5	<0.935	<0.935	<0.902	<0.935	18.2
	3/9/2022	<0.495	40.7	<0.874	<0.874	<0.874	<0.874	18.1
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	67.6	<0.959	<0.959	<0.959	<0.959	18.1
	3/24/2022	<0.495	37.5	<0.901	<0.901	<0.869	<0.901	18.9
	3/31/2022	<0.495	43.7	<0.926	<0.926	<0.894	<0.926	19.0
	4/6/2022	<0.495	41.6	<0.926	<0.926	<0.894	<0.926	18.1
	4/13/2022	<0.495	13.0	<0.918	<0.918	<0.886	<0.918	19.0
	4/20/2022	<0.495	72.4	<0.904	<0.904	<0.872	<0.904	18.3
	4/28/2022	<0.495	18.9	<0.890	<0.890	<0.859	<0.890	19.9
	5/5/2022	<0.495	31.8	<0.912	<0.912	<0.880	<0.912	19.5
	5/10/2022	1.20 J	31.5	<0.985	<0.985	<0.950	<0.985	16.7
	5/19/2022	0.600 J	41.5	<0.926	<0.926	<0.894	<0.926	20.3
	5/26/2022	1.00 J	32.2	<0.920	<0.920	<0.888	<0.920	18.0
	6/1/2022	0.800 J	19.0	<0.926	<0.926	<0.894	<0.926	20.5
	6/9/2022	0.600 J	24.6	<0.962	<0.962	<0.929	<0.962	20.3
	6/17/2022	<0.495	21.1	<0.918	<0.918	<0.886	<0.918	18.3
	6/23/2022	0.800 J	32.5	<0.932	<0.932	<0.900	<0.932	18.0
	6/29/2022	1.00 J	33.2	0.954 J	<0.923	<0.891	0.954 J	15.8
	7/7/2022	0.600 J	22.2	<0.947	<0.947	<0.914	<0.947	23.1
	7/13/2022	<0.495	31.9	<0.950	<0.950	<0.917	<0.950	20.6
	7/20/2022	<0.495	31.4	<0.959	<0.959	<0.926	<0.959	20.0
	7/27/2022	<0.495	10.6	<0.904	<0.904	<0.872	<0.904	17.6
	8/4/2022	0.800 J	31.9	<0.906	<0.906	<0.875	<0.906	19.2
	8/10/2022	1.00 J	35.0	<0.929	<0.929	<0.897	<0.929	19.8
	8/18/2022	<0.495	52.4	<1.04	<1.04	<1.00	<1.04	20.7
	8/24/2022	1.40 J	34.4	<4.78	<4.78	<4.78	<4.78	18.2
	8/31/2022	1.20 J	22.0	<0.932	<0.932	<0.900	<0.932	19.9
	9/15/2022	0.800 J	55.4	<0.988	<0.988	<0.954	<0.988	18.6
	9/22/2022	<0.495	28.0	<0.944	<0.944	<0.911	<0.944	21.0
	9/28/2022	1.20 J	28.5	<0.956	<0.956	<0.923	<0.956	17.9
	10/4/2022	0.800 J	34.2	<0.895	<0.895	<0.864	<0.895	17.8
	10/14/2022	1.20 J	26.6	<0.935	<0.935	<0.902	<0.935	18.7
	10/19/2022	<0.495	22.4	<0.981	<0.981	<0.947	<0.981	18.4
	10/27/2022	<0.495	22.0	<1.00	<1.00	<0.968	<1.00	25.0
	11/2/2022	<0.495	31.7	<0.972	<0.972	<0.938	<0.972	25.0
	11/9/2022	<0.495	33.0	<0.972	<0.972	<0.938	<0.972	21.4
	11/16/2022	<0.495	28.2	<1.00	<1.00	<0.970	<1.00	18.0
	11/30/2022	<0.495	30.0	<0.915	<0.915	<0.883	<0.915	18.5
	12/9/2022	<0.495	19.5	<1.00	<1.00	<0.970	<1.00	17.1
	12/15/2022	<0.495	43.9	<0.918	<0.918	<0.886	<0.918	15.7
	12/21/2022	<0.495	37.8	<0.890	<0.890	<0.859	<0.890	15.8
	12/29/2022	<0.495	64.9	<0.938	<0.938	<0.905	<0.938	16.7



TABLE 3
GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY
 South Hobbs G/SA Unit
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417002

Sample Designation	Date	(mg/L)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-1	1/4/2023	<0.495	28.1	<0.923	<0.923	<0.891	<0.923	15.9
	1/13/2023	<0.495	45.0	<0.935	<0.935	<0.902	<0.935	13.8
	1/19/2023	0.800 J	53.9	<0.918	<0.918	<0.886	<0.918	16.0
	1/25/2023	<0.495	28.9	<1.00	<1.00	<0.966	<1.00	19.5
	2/2/2023	<0.495	52.2	<0.978	<0.978	<0.944	<0.978	18.6
	2/8/2023	<0.495	45.3	<0.969	<0.969	<0.935	<0.969	16.9
	2/17/2023	<0.495	27.2	<0.938	<0.938	<0.905	<0.938	20.0
	2/22/2023	<0.495	66.3	<0.906	<0.906	<0.875	<0.906	18.7
	3/3/2023	<0.495	39.0	<0.893	<0.893	<0.862	<0.893	17.5
	3/8/2023	<0.495	79.3	<1.01	<1.01	<0.976	<1.01	18.6
	3/15/2023	<0.495	65.4	1.34 J	<1.01	<0.976	1.34 J	14.1
	3/23/2023	<0.495	63.2	<0.938	<0.938	<0.905	<0.938	18.2
	3/29/2023	<0.495	75.1	<0.947	<0.947	<0.914	<0.947	15.9
	4/6/2023	<0.495	55.8	<0.920	<0.920	<0.888	<0.920	15.8
	4/14/2023	<0.495	44.1	<0.909	<0.909	<0.877	<0.909	18.8
	4/26/2023	<0.495	67.9	<0.981	<0.981	<0.947	<0.981	19.8
	5/2/2023	<0.495	86.9	<0.935	<0.935	<0.902	<0.935	18.2
	5/11/2023	<0.495	73.0	<0.912	<0.912	<0.880	<0.912	18.1
	5/15/2023	<0.495	116	<0.920	<0.920	<0.888	<0.920	16.4
	5/25/2023	<0.495	137	<0.935	<0.935	<0.902	<0.935	17.6
	5/30/2023	<0.495	693	<0.944	<0.944	<0.911	<0.944	18.4
	6/9/2023	<0.495	165	<0.941	2.21 J	<0.908	2.21 J	19.1
	6/15/2023	<0.495	168	<0.935	<0.935	<0.902	<0.935	20.2
	6/23/2023	<0.495	75.4	<0.991	<0.991	<0.957	<0.991	20.2
	6/26/2023	<0.495	186	<0.920	<0.920	<0.888	<0.920	20.3
	7/5/2023	<0.0400	83.7	<1.03	<1.03	<0.993	<1.03	20.5
	7/13/2023	<0.0400	186	<0.965	<0.965	<0.932	<0.965	20.6
7/17/2023	<0.0400	193	<1.02	<1.02	<0.980	<1.02	21.4	
7/27/2023	<0.0400	164	<0.929	<0.929	<0.897	<0.929	21.4	
7/31/2023	<0.0400	68.6	<1.17	<1.17	<1.13	<1.17	19.0	



TABLE 3
GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY
 South Hobbs G/SA Unit
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417002

Sample Designation	Date	(mg/L)						°C	
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature	
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE	
MW-2	5/26/2020	<0.495	923	2.10	1.07 J	<0.900	6.16	23.1	
	6/30/2020	<5.00	1,290	<2.32	<2.32	<2.32	<2.32	22.1	
	8/20/2020	<5.00	1,150	2.75	3.29	<2.26	6.02	23.0	
	11/24/2020	<0.495	1,300	1.73 J	2.17 J	<0.835	3.900	19.1	
	12/18/2020	0.600 J	958	1.34 J	0.915 J	<0.824	2.26 J	15.1	
	12/23/2020	<0.495	1,090	1.61 J	1.12 J	<0.837	2.73	15.6	
	12/30/2020	<0.495	1,090	<0.893	<0.825	<0.825	<0.825	12.1	
	1/6/2021	<0.495	1,240	1.99 J	<0.824	<0.824	1.99 J	13.1	
	1/12/2021	11.2	1,450	1.64 J	<0.833	<0.833	1.64 J	13.9	
	1/20/2021	9.60	1,390	<0.907	<0.838	<0.838	<0.838	18.2	
	1/27/2021	15.0	1,600	1.31 J	<0.834	<0.834	1.31 J	13.4	
	2/3/2021	<0.495	1,030	0.955 J	1.15 J	<0.813	2.11 J	20.9	
	2/10/2021	<0.495	915	2.08	<0.746	<0.746	2.08	11.5	
	2/24/2021	<0.495	793	1.01 J	<0.832	<0.832	1.01 J	19.4	
	3/4/2021	<0.495	1,030	1.74 J	<0.819	<0.819	1.74 J	18.2	
	3/10/2021	<0.495	1,010	<0.893	<0.825	<0.825	<0.825	18.5	
	3/17/2021	<0.495	970	2.33	<0.835	<0.835	2.33	19.5	
	3/25/2021	<0.495	653	1.50 J	1.16 J	<0.857	2.66 J	20.2	
	3/31/2021	<0.495	1,110	<0.941	<0.941	<0.908	<0.941	18.3	
	4/8/2021	<0.495	1,010	2.30 J	1.01 J	<0.875	3.31 J	18.9	
	4/15/2021	<0.495	2,200	2.49 J	0.999 J	1.70 J	5.19	20.1	
	4/21/2021	<0.495	1,230	1.01 J	0.913 J	<0.856	1.92 J	18.9	
	4/28/2021	<0.495	1,100	2.54 J	1.19 J	<0.872	3.73 J	19.0	
	5/5/2021	<0.495	1,350	2.09 J	<0.890	<0.859	2.09 J	18.8	
	5/13/2021	<0.495	1,320	1.18 J	<0.906	<0.875	1.18 J	19.6	
	5/19/2021	<0.495	1,730	1.46 J	<0.901	<0.869	1.46 J	19.8	
	5/27/2021	<0.495	798	<0.920	<0.920	<0.888	<0.920	20.8	
	6/2/2021	<0.495	1,580	2.01 J	<0.895	<0.864	2.01 J	18.1	
	6/10/2021	<0.495	2,010	1.46 J	<0.882	<0.851	1.46 J	22.0	
	6/16/2021	<0.495	810	0.963 J	<0.826	<0.797	0.963 J	18.0	
	6/22/2021	<0.495	795	1.18 J	<0.947	<0.914	1.18 J	22.2	
	6/30/2021	<0.495	975	1.21 J	<0.893	<0.862	1.21 J	20.3	
	7/1/2021	Levey Well Now Running Full Time							
	7/7/2021	<0.495	889	1.62 J	<0.906	<0.875	1.62 J	18.3	
	7/14/2021	<0.495	1,080	<0.965	<0.965	<0.932	<0.965	19.3	
	7/20/2021	<0.495	1,170	1.16 J	<0.898	<0.867	1.16 J	19.8	
	7/27/2021	<0.495	950	1.03 J	<0.906	<0.875	1.03 J	22.3	
	8/5/2021	<0.495	778	<0.909	<0.909	<0.877	<0.909	22.1	
	8/11/2021	<0.495	1,040	1.46 J	<0.887	<0.856	1.46 J	19.7	
	8/19/2021	<0.495	2,010	1.93 J	<0.959	<0.926	1.93 J	20.7	
	8/25/2021	<0.495	1,400	1.01 J	<0.932	<0.900	1.01 J	19.2	
	9/2/2021	<0.495	1,830	3.03 J	2.11 J	<0.920	5.14	21.4	
	9/8/2021	<0.495	1,570	1.70 J	<0.932	<0.900	1.70 J	20.5	
	9/14/2021	<0.495	1,240	1.93 J	1.01 J	<0.917	2.94 J	19.4	
	9/21/2021	<0.495	1,260	1.33 J	<0.941	<0.908	1.33 J	18.0	
	9/29/2021	<0.495	1,040	1.60 J	<1.19	<1.15	1.60 J	18.5	
	10/7/2021	<0.495	1,020	1.45 J	<0.988	<0.954	1.45 J	18.0	
	10/13/2021	<0.495	834	1.56 J	<0.935	<0.902	1.56 J	20.6	
	10/21/2021	<0.495	2,420	1.64 J	<0.918	<0.886	1.64 J	19.8	
	11/5/2021	<0.495	628	1.39 J	<0.965	<0.932	1.39 J	22.8	
	11/11/2021	<0.495	4,500	2.27 J	<0.985	<0.950	2.27 J	18.5	
	11/18/2021	<0.495	574	2.56 J	<0.923	<0.891	2.56 J	19.5	
	11/24/2021	<5.00	1,500	2.34 J	<4.59	<4.59	2.34 J	19.1	
	12/1/2021	<0.495	313	1.69 J	<0.912	<0.880	1.69 J	19.2	
	12/8/2021	<0.495	1,260	1.86 J	<0.932	<0.900	1.86 J	18.9	
	12/16/2021	<0.495	957	1.15 J	<0.947	<0.914	1.15 J	18.0	
	12/22/2021	<0.495	1,020	1.95 J	<0.944	<0.911	1.95 J	21.6	
	12/29/2021	<0.495	1,250	1.15 J	<0.935	<0.902	1.15 J	18.0	



TABLE 3
GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY
 South Hobbs G/SA Unit
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417002

Sample Designation	Date	(mg/L)						°c
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-2	1/6/2022	<0.495	1,030	1.31 J	<0.915	<0.883	1.31 J	18.2
	1/12/2022	<0.495	1,450	3.63 J	1.34 J	<1.00	4.97 J	22.0
	1/19/2022	<0.495	1,420	2.83 J	<0.915	<0.883	2.83 J	18.2
	1/26/2022	<0.495	2,020	<0.923	<0.923	<0.891	<0.923	18.8
	2/2/2022	Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.						
	2/8/2022	<0.495	2,050	1.31 J	<0.909	<0.877	1.31 J	20.7
	2/16/2022	<0.495	1,670	0.974 J	<0.864	<0.834	0.974 J	18.3
	2/25/2022	<0.495	1,280	1.43 J	<0.965	<0.932	1.43 J	19.9
	3/3/2022	<0.495	2,160	1.86 J	<0.909	<0.877	1.86 J	18.1
	3/9/2022	<0.495	1,680	1.77 J	<0.947	<0.914	1.77 J	18.4
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	1,700	2.22 J	<0.915	<0.883	2.22 J	18.1
	3/24/2022	<0.495	1,330	1.29 J	<0.909	<0.877	1.29 J	19.1
	3/31/2022	<0.495	1,340	1.28 J	<0.938	<0.905	1.28 J	19.0
	4/6/2022	<0.495	1,720	1.00 J	<0.938	<0.905	1.00 J	18.1
	4/13/2022	<0.495	874	0.915 J	<0.906	<0.875	0.915 J	19.0
	4/20/2022	<0.495	1,060	1.06 J	<0.901	<0.869	1.06 J	18.6
	4/28/2022	<0.495	1,100	1.76 J	<0.915	<0.883	1.76 J	19.8
	5/5/2022	0.600 J	1,330	1.40 J	<0.920	<0.888	1.40 J	19.2
	5/10/2022	<0.495	1,320	1.63 J	<0.965	<0.932	1.63 J	16.8
	5/19/2022	<0.495	1,740	1.80 J	<0.915	<0.883	1.80 J	20.5
	5/26/2022	<0.495	2,650	1.02 J	<0.950	<0.917	1.02 J	18.1
	6/1/2022	<0.495	1,340	1.43 J	<0.909	<0.877	1.43 J	20.5
	6/9/2022	<0.495	1,080	1.23 J	<0.938	<0.905	1.23 J	19.8
	6/17/2022	<0.495	894	1.49 J	<0.895	<0.864	1.49 J	17.8
	6/23/2022	<0.495	1,270	1.25 J	<0.920	<0.888	1.25 J	18.0
	6/29/2022	<0.495	1,680	<0.935	<0.935	<0.902	<0.935	15.9
	7/7/2022	<0.495	1,190	0.912 J	<0.906	<0.875	0.912 J	23.0
	7/13/2022	<0.495	1,610	1.17 J	<0.947	<0.914	1.17 J	20.1
	7/20/2022	<0.495	1,360	1.07 J	<0.981	<0.947	1.07 J	19.8
	7/27/2022	<0.495	1,070	1.49 J	<0.975	<0.941	1.49 J	18.2
	8/4/2022	<0.495	1,570	1.31 J	<0.904	<0.872	1.31 J	19.2
	8/10/2022	<0.495	1,260	1.17 J	<0.932	<0.900	1.17 J	19.3
	8/18/2022	<0.495	1,280	1.43 J	7.62	<0.897	9.05	21.3
	8/24/2022	<5.00	1,300	1.18 J	<4.63	<4.63	1.18 J	18.0
	8/31/2022	1.00 J	1,290	1.08 J	<0.950	<0.917	1.08 J	20.0
	9/15/2022	<0.495	1,320	1.83 J	<1.07	<1.04	1.83 J	18.9
	9/22/2022	<0.495	1,320	1.56 J	<1.05	<1.01	1.56 J	20.9
	9/28/2022	<0.495	1,280	1.06 J	<1.05	<1.01	1.06 J	18.6
	10/4/2022	<0.495	1,670	1.11 J	<0.904	<0.872	1.11 J	17.6
	10/14/2022	<0.989	1,670	1.12 J	<0.915	<0.883	1.12 J	18.1
	10/19/2022	<0.495	814	1.46 J	<0.877	<0.846	1.46 J	18.3
	10/27/2022	<0.495	1,350	<0.988	<0.988	<0.954	<0.988	25.0
	11/2/2022	<0.495	1,680	1.82 J	<0.978	<0.944	1.82 J	25.0
	11/9/2022	<4.95	1,220	1.14 J	<0.978	<0.944	1.14 J	21.2
	11/16/2022	<0.495	653	2.20 J	<0.909	<0.877	2.20 J	18.0
	11/30/2022	<0.495	1,030	<0.959	<0.959	<0.926	<0.959	18.7
	12/9/2022	<0.495	1,030	1.38 J	<0.969	<0.935	1.38 J	17.3
	12/15/2022	<0.495	1,440	1.71 J	<0.988	<0.954	1.71 J	15.3
	12/21/2022	<0.495	1,280	1.11 J	<0.904	<0.872	1.11 J	16.3
	12/29/2022	<0.495	789	<0.923	<0.923	<0.891	<0.923	17.3



TABLE 3
GROUNDWATER SAMPLING (Additional Parameters) ANALYTICAL DATA SUMMARY
 South Hobbs G/SA Unit
 Oxy Permian Ltd.
 Hobbs, New Mexico
 Ensolum Project No. 03B1417002

Sample Designation	Date	(mg/L)						°C
		Sulfide	Carbon Dioxide (Free)	TPH GRO	TPH DRO	TPH ORO	Total TPH	Temperature
20 NMAC 6.2 Water Quality - Ground and Surface Water Protection Human Health Standards		NE	NE	NE	NE	NE	NE	NE
MW-2	1/4/2023	<0.495	910	1.66 J	<0.988	<0.954	1.66 J	16.8
	1/13/2023	<0.495	966	1.43 J	<0.941	<0.908	1.43 J	13.6
	1/19/2023	<0.495	1,610	1.06 J	<0.929	<0.897	1.06 J	16.3
	1/25/2023	<0.495	704	<0.923	<0.923	<0.891	<0.923	19.3
	2/2/2023	<0.495	1,480	1.01 J	<0.959	<0.926	1.01 J	18.7
	2/8/2023	<0.495	1,300	0.984 J	<0.898	<0.867	0.984 J	16.7
	2/17/2023	<0.495	1,040	1.24 J	<0.953	<0.920	1.24 J	20.0
	2/22/2023	<0.495	2,070	1.97 J	<0.926	<0.894	1.97 J	18.7
	3/3/2023	<0.495	1,520	2.46 J	<0.991	<0.957	2.46 J	18.1
	3/8/2023	<0.495	1,560	1.18 J	<1.01	<0.976	1.18 J	19.1
	3/15/2023	<0.495	1,500	<1.01	<1.01	<0.976	<1.01	14.2
	3/23/2023	<0.495	1,260	<0.920	<0.920	<0.888	<0.920	17.3
	3/29/2023	<0.495	1,580	<0.920	<0.929	<0.897	<0.929	16.6
	4/6/2023	<0.495	821	1.04 J	<0.988	<0.954	1.04 J	15.5
	4/14/2023	<0.495	438	1.22 J	<0.895	<0.864	1.22 J	18.8
	4/26/2023	<0.495	1,050	1.03 J	<0.935	<0.902	1.03 J	20.2
	5/2/2023	<0.495	1,310	1.19 J	<0.981	<0.947	1.19 J	18.5
	5/11/2023	<0.495	1,020	1.29 J	<0.909	<0.877	1.29 J	18.1
	5/15/2023	<0.495	1,210	<0.906	<0.906	<0.875	<0.906	16.3
	5/25/2023	<0.495	1,330	1.09 J	<0.947	<0.914	1.09 J	18.0
	5/30/2023	<0.495	267	<0.935	<0.935	<0.902	<0.935	18.3
	6/9/2023	<0.495	1,050	1.82 J	12.8	2.28 J	16.9	18.6
	6/15/2023	<0.495	1,050	1.50 J	<0.904	<0.872	1.50 J	20.4
	6/23/2023	<0.495	62.6	1.47 J	<0.935	<0.902	1.47 J	21.0
	6/26/2023	<0.495	1,070	<0.929	<0.929	<0.897	<0.929	20.6
	7/5/2023	<0.0400	1,030	1.24 J	<0.972	<0.938	1.24 J	21.4
	7/13/2023	<0.0400	1,040	0.971 J	<0.956	<0.923	0.971 J	20.2
	7/17/2023	<0.0400	1,280	1.19 J	<0.991	<0.957	1.19 J	20.6
7/27/2023	<0.0400	1,270	1.15 J	<0.898	<0.867	1.15 J	20.6	
7/31/2023	<0.0400	422	1.37 J	<1.15	<1.11	1.37 J	18.9	

NOTES:

°C - degrees celsius

mg/L - milligrams per Liter

NE - not established

J - The target analyte was positively identified below the quantitation limit and above the detection limit.

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensulum Project No. 03B1417001																																						
Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/25/2021	0823	229	<6.39	<7.76	9.52	<4.13	<10.3	575	<8.10	<7.93	324	<8.67	<9.82	<11.2	<17.0	299	980	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	22.2	<9.82	<9.82	<7.04	<17.3	<8.67	17,500
	1/25/2021	1213	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	2.01	<0.810	<0.793	4.98	<0.867	<0.982	<1.12	<1.70	1.44	3.20	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	<1.36	<0.590	<1.88	<1.09	<1.36	1.14	1.29	<0.704	<1.73	<0.867	<826
	1/28/2021	1316	14,800	<0.639	2.96	246	22.5	42.5	1,770	<0.810	<0.793	2,410	53.8	298	<1.12	2.03	1,220	2,890	150	<0.694	101	2,340	53.2	<0.819	<33.0	438	<0.851	72.6	<0.590	95.7	<1.09	<1.07	445	375	<0.704	246	147	61,100
	2/10/2021	1300	1,140	<12.8	<15.5	181	<8.26	<20.6	10,800	<16.2	<15.9	<23.8	44.2	426	<22.5	<19.8	4,040	14,000	92.4	<13.9	<102	79.0	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	66.3	<21.8	<21.4	334	584	<14.1	361	218	315,000
	2/24/2021	1045	<2.97	<0.639	<0.776	161	<0.413	<1.03	4,510	<0.810	9.83	<1.19	88.4	491	<1.12	<0.989	2,200	5,610	249	<0.694	<5.11	<3.69	<5.12	<0.819	<33.0	<3.07	<0.851	5.47	<0.590	101	<1.09	1.14	218	305	<0.704	633	388	114,000
	3/4/2021	1402	375	<3.19	<3.88	67.9	<2.07	<5.15	2,620	<4.05	<3.96	88.6	56.4	<4.91	<5.62	<4.95	847	4,690	176	<3.47	<25.6	72.0	<25.6	<4.09	22.8	<15.4	<4.25	<6.79	<2.95	49.3	<5.44	<5.36	1,460	913	<3.52	533	198	83,400
	3/10/2021	1050	<2.97	<0.639	<0.776	71.0	<0.413	<1.03	3,300	<0.810	<0.793	<1.19	61.1	1,070	1.26	<0.989	990	4,120	205	<0.694	<5.11	54.8	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	55.4	<1.09	<1.07	947	825	<0.704	516	249	120,000
	3/17/2021	1135	806	<0.639	<0.776	95.6	<0.413	<1.03	3,160	<0.810	<0.793	50.2	63.3	444	1.38	<0.989	1,240	4,550	128	<0.694	<5.11	139	<5.12	<0.819	<3.30	46.5	<0.851	<1.36	<0.590	101	<1.09	<1.07	332	313	<0.704	432	179	88,800
	3/25/2021	1111	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	11,700	<0.810	<0.793	41.3	65.9	<0.982	<1.12	<0.989	2,500	12,800	157	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	67.4	<1.09	<1.07	424	359	<0.704	382	205	256,000
	3/31/2021	1055	1,880	<0.639	<0.776	<0.622	<0.413	<1.03	22,300	<0.810	<0.793	96.3	78.0	185	<1.12	<0.982	4,420	24,000	150	<0.694	<5.11	244	<5.12	<0.819	<3.30	<3.07	<0.851	17.5	<0.590	73.1	9.57	<1.07	292	265	<0.704	352	193	305,000
	4/8/2021	1205	2,350	843	<311	<249	<165	<412	30,500	<324	<317	2,830	<347	736	<450	<396	<327	64,500	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	1,470	<340	<543	<236	<753	<435	<429	453	420	<282	737	<347	574,000
	4/15/2021	1228	1,200	<12.8	<15.5	97.7	<8.26	<20.6	41,000	<16.2	<15.9	98.0	91.9	447	<22.5	<19.8	4,950	98,000	134	<13.9	<102	206	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	101	<21.8	<21.4	197	198	<14.1	620	190	438,000
	4/21/2021	1340	639	<0.639	<0.776	<0.622	<0.413	<1.03	2,390	<0.810	<0.793	234	72.4	309	<1.12	<0.989	969	5,710	166	<0.694	<5.11	280	<5.12	<0.819	<3.30	127	<0.851	<1.36	<0.590	48.2	<1.09	<1.07	216	447	<0.704	296	225	<826
	4/28/2021	1215	1,210	<12.8	<15.5	134	<8.26	<20.6	6,650	<16.2	<15.9	343	129	1,540	<22.5	<19.8	<16.4	13,200	264	<13.9	<102	229	<102	<16.4	<66.0	143	<17.0	<27.2	<11.8	95.3	<21.8	<21.4	1,050	761	<14.1	954	313	261,000
	5/5/2021	1235	371	<12.5	<15.5	12.6	<8.26	<20.6	844	<16.2	<15.9	326	27.2	88.3	<22.5	<19.8	326	1,120	58.0	<13.9	<102	93.8	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	179	142	<14.1	185	65.0	273,000
	5/13/2021	1320	1,220	<12.8	<15.5	39.8	<8.26	<20.6	6,130	29.9	<15.9	456	88.4	545	<22.5	<19.8	2,300	7,300	228	<13.9	<102	226	<102	<16.4	<66.0	219	<17.0	<27.2	<11.8	62.5	<21.8	<21.4	1,230	756	<14.1	668	251	205,000
	5/19/2021	1445	1,700	<1.28	<1.55	<1.24	<0.826	<2.06	6,680	<1.62	<1.59	226	76.7	306	<2.25	<1.98	2,010	12,300	179	<1.39	122	200	<10.2	<16.4	<66.0	205	<17.0	<27.2	<11.8	50.5	<2.18	3.46	520	550	<1.41	577	195	175,000
	5/27/2021	1245	380	0.664	<0.776	<0.622	1.57	<1.03	1.14	<0.810	<0.793	6,130	3.68	7.07	1.51	2.64	9.98	157	<0.983	13.5	13.5	115	263	<0.819	<3.30	976	301	<1.36	149	86.3	<1.09	<1.07	15.4	4.37	<0.704	12.1	3.70	17,900
	6/2/2021	1220	1,280	<12.8	<15.5	<12.4	<8.26	<20.6	5,480	<16.2	<15.9	317	78.5	241	<22.5	<19.8	1,500	6,840	162	<13.9	<102	188	<102	<16.4	<66.0	125	<17.0	<27.2	<11.8	47.1	<21.8	<21.4	555	356	<14.1	542	174	179,000
	6/10/2021	1150	3,470	<12.8	<15.5	106	<8.26	<20.6	2,260	<16.2	<15.9	722	21.6	169	<22.5	<19.8	507	3,020	48.1	<13.9	<102	295	<102	<16.4	<66.0	234	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	89.3	73.1	<14.1	127	49.4	95,800
	6/16/2021	1217	2,160	<0.639	<0.776	43.0	<0.413	<1.03	806	<0.810	<0.793	609	17.9	145	<1.12	<0.989	308	1,670	32.2	<0.694	35.6	251	<5.12	<0.819	<3.30	201	<0.851	<1.36	<0.590	29.3	<1.09	<1.07	85.9	58.9	<0.704	88.9	34.4	32,400
	6/22/2021	1240	1,190	<6.39	<7.76	<6.22	<4.13	<10.3	2,440	<8.10	<7.93	347	9.49	78.0	<11.2	<9.																						

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GCMS) Low Fraction
Levey Well	1/3/2022	0756	<297	<63.9	<77.6	<62.2	<41.3	<103	108,000	<81.0	<79.3	1,200	<86.7	<98.2	<112	<98.9	234,000	606,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	6,610	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,020,000
		0759	Initiate Vacuum Recovery Event																																			
		0823	<59.4	<12.8	<15.5	<12.4	407	<20.6	3,960	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	12,800	28,200	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	62.9	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	177,000
		0904	<14.9	<3.19	<3.88	<3.11	<2.07	<5.15	2,240	<4.05	<3.96	<11.8	<4.34	<4.91	<5.62	<4.95	6,130	17,800	<4.92	<3.47	<25.6	<18.4	<25.6	<4.09	<16.5	19.3	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	8.25	5.64	<3.52	<8.67	<4.34	101,000
		0920	Vacuum Recovery Event Terminated																																			
	1031	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,580	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	5,690	15,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	87.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	22.7	<19.6	<14.1	<34.7	<17.3	188,000	
	1/6/2022	0000	<297	<63.9	<77.6	<62.2	<41.3	<103	10,600	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	20,500	130,000	<98.3	110	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	508,000
	1/12/2022	1352	31,400	<12.8	<15.5	<12.4	<8.26	<20.6	164,000	<16.2	<15.9	<47.1	115	491	<22.5	<19.8	342,000	1,680,000	98.8	<13.9	<102	5,570	<102	<16.4	85.9	81,900	<17.0	<27.2	<11.8	263	<21.8	<21.4	400	433	<14.1	341	156	6,820,000
	1/17/2022	0852	14,900	<639	<776	<622	<413	<1,030	119,000	<810	<793	<2,360	<867	<982	<1,120	<989	160,000	1,440,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	25,800	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	6,110,000
		0853	Initiate Vacuum Recovery Event																																			
		0919	227	<0.639	<0.776	<0.622	<0.413	<1.03	3,650	<0.810	<0.793	19.8	2.15	1.70	1.52	1.84	6,260	19,100	1.22	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	202	<0.851	<1.36	<0.590	8.32	<1.09	<1.07	2.84	2.87	<0.704	5.20	2.15	132,000
		1004	90.3	<0.639	<0.776	<0.622	1.30	<1.03	747	<0.810	<0.793	56.2	2.58	4.13	1.40	2.60	1,610	4,300	2.46	<0.694	<5.11	16.4	<5.12	<0.819	<3.30	114	<0.851	2.69	<0.590	15.6	<1.09	<1.07	11.5	8.44	<0.704	7.50	3.13	31,600
		1021	Vacuum Recovery Event Terminated																																			
	1134	466	<0.639	<0.776	<0.622	1.64	<1.03	2,400	<0.810	<0.793	16.8	5.42	9.67	1.38	2.14	4,620	10,800	5.26	<0.694	<5.11	54.3	<5.12	<0.819	3.42	494	<0.851	27.5	<0.590	23.8	<1.09	<1.07	20.8	18.7	<0.704	17.7	7.46	95,400	
	1/19/2022	1208	454	<31.9	<38.8	<31.1	<20.7	<51.5	11,300	<40.5	<39.6	149	<43.4	94.2	<56.2	<49.5	28,800	171,000	<49.2	<34.7	<256	<184	<256	966	<165	3,740	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	81.0	221	<35.2	<86.7	<43.4	508,000
	1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	28,900	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	22,900	313,000	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	248	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	1,180,000
	2/2/2022	0921	4,040	5,940	<155	<124	<82.6	<206	229,000	<162	<159	<471	195	<196	<225	<198	217,000	8,710,000	<197	<139	<1020	1,360	<1,020	<164	<660	10,800	<170	<272	<118	1,220	<218	<214	<196	<196	<141	481	<173	3,620,000
		0922	Initiate Vacuum Recovery Event																																			
		0950	337	415	<15.5	<12.4	<8.26	<20.6	16,700	<16.2	<15.9	<47.1	147	<19.6	<22.5	<19.8	36,200	114,000	<19.7	<13.9	<102	231	<102	<16.4	<66.0	88.2	<17.0	<27.2	<11.8	313	<21.8	<21.4	27.0	<19.6	<14.1	370	108	409,000
		1030	56.8	29.9	<0.776	<0.622	<0.413	<1.03	2,280	<0.810	<0.793	10.5	25.2	<0.982	<1.12	2.47	5,440	9,380	2.05	<0.694	<5.11	34.5	<5.12	<0.819	<3.30	30.2	<0.851	<1.36	<0.590	46.3	<1.09	<1.07	9.18	6.58	<0.704	62.9	17.6	71,500
		1047	Vacuum Recovery Event Terminated																																			
	1158	80.8	29.7	<0.776	<0.622	<0.413	<1.03	2,750	<0.810	<0.793	4.13	19.1	<0.982	<1.12	2.58	5,850	8,670	1.82	<0.694	<5.11	36.9	<5.12	<0.819	<3.30	43.0	<0.851	<1.36	<0.590	38.8	<1.09	<1.07	7.80	5.35	<0.704	46.8	13.0	59,500	
	2/8/2022	1200	88.6	<0.639	<0.776	<0.622	<0.413	<1.03	1,310	<0.810	<0.793	<2.36	27.2	<0.982	<1.12	<0.989	2,640	13,700	14.5	<0.694	<5.11	15.5	<5.12	<0.819	3.64	76.2	<0.851	3.38	<0.590	12.3	<1.09	<1.07	43.8	46.5	<0.704	91.9	39.4	83,000
	2/16/2022	1224	215	<12.8	<15.5	<12.4	<8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<19.8	7,280	62,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	156	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	23.1	19.6	<14.1	38.4	<17.3	272,000
	2/23/2022	1021	1,950	<0.639	<0.776	<0.622	<0.413	<1.03	30,900	<0.810	<0.793	120	3.00	<0.982	<1.12	<0.989	5,360	176,000	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	73.8	<1.09	<1.07	1.84	1.47	<0.704	3.42	1.12	261,000
		1022	Initiate Vacuum Recovery Event																																			
		1043	104	101	<0.776	<0.622	1.44	<1.03	3,280	<0.810	<0.793	62.4	4.60	1.30	1.64	2.42	1,040	2,500	<0.983	<0.694	<5.11	34.2	<5.12	<0.819	<3.30	14.2	<0.851	<1.36	<0.590	57.6	<1.09	<1.07	3.47	3.29	<0.704	6.89	1.96	30,000
		1118	<29.7	25.9	<7.76	<6.22	<4.13	<10.3	737	<8.10	<7.93	42.2	<8.67	<9.82	<11.2	<9.89	290	610	<9.83	<6.94	<5.11	<36.9	<5.12	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	20.3	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	8,510
		1134	Vacuum Recovery Event Terminated																																			
	1241	<2.97	<0.639	<0.776	<0.622	1.40	<1.03	1,380	<0.810	<0.793	<2.36	<0.867	<0.982	1.58	1.76	272	1,290	<0.983	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	7.61	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	13,200	
	2/25/2022	1145	250	<0.639	<0.776	21.2	0.413	<1.03	12,400	<0.810	<0.793	4.68	2.41	4.13	<1.12	<0.989	3,740	26,100	2.23	<0.694	<5.11	46.9	<5.12	<0.819	3.50	25.8	<0.851	<1.36	<0.590	9.12	<1.09	<1.07	7.85	6.23	<0.704	8.15	2.49	107,000
	2/28/2022	1405	<149	<31.9	<38.8	<31.1	<20.7	<51.5	520	<40.5	<39.6	837	<43.4	<49.1	<56.2	<49.5	220	3,390	<49.2	47.6	<256	<184	<256	766	<165	8,480	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300
		1406	Initiate Vacuum Recovery Event																																			
		1510	<2.97	1.79	<0.776	<0.622	<0.413	<1.03	305	<0.810	<0.793	7.45	2.05	2.40	<1.12	2.13	182	511	1.12	<0.694	<5.11	10.6	<5.12	<0.819	<3.30	25.6	<0.851	<1.36	<0.590	3.74	<4.66	<1.07	4.96	4.91	<0.704	3.20	1.44	6,440
		1428	<149	<31.9	<38.8	<31.1	<20.7	<51.5	654</																													

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																							
Sample Designation	Date	Time	(ug/m3)																																				
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction	
Levey Well	5/5/2022	1454	<1.190	<256	<311	<249	<165	<412	30,500	<324	<317	<943	<347	<393	<450	<396	47,000	673,000	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	8,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	1,430,000	
	5/9/2022	0958	<1.190	<256	<311	<249	<165	<412	49,200	<324	<317	2,660	<347	<393	<450	<396	66,300	850,000	<393	<278	<2,040	3,480	<2,050	<328	<1,320	26,100	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,380,000	
		1000	Initiate Vacuum Recovery Event																																				
		1020	333	<0.639	<0.776	1.34	1.81	<1.03	995	<0.810	<0.793	42.4	4.07	17.1	<1.12	1.20	2,530	8,780	<0.983	<0.694	<5.11	203	<5.12	<0.819	5.09	76.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.9	20.8	<0.704	7.02	5.94	54,100	
		1057	90.8	<0.639	<0.776	<0.622	2.85	<1.03	159	<0.810	<0.793	13.3	<0.867	1.08	1.31	1.81	385	1,040	<0.983	<0.694	<5.11	33.6	<5.12	<0.819	<3.30	13.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	1.54	2.56	<0.704	<1.73	1.03	8,220	
		1105	Vacuum Recovery Event Terminated																																				
	5/19/2022	1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000	
		1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000	
	5/23/2022	1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000	
		1017	Initiate Vacuum Recovery Event																																				
		1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000	
		1200	927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000	
		1215	Vacuum Recovery Event Terminated																																				
	5/26/2022	1355	4,350	<51.1	<62.1	<49.8	88.6	<82.5	16,300	<64.8	<63.4	562	<69.4	146	<89.9	<79.1	47,000	154,000	<78.7	<55.6	<409	1,580	<409	<65.5	<264	7,520	<68.1	<109	<47.2	<151	<87.0	<85.7	85.9	205	<56.3	<139	<64.4	785,000	
		1250	49,400	<1,280	<1,550	<1,240	<826	<2,060	196,000	<1,620	<1,590	12,900	<1,730	<1,960	<2,250	<1,980	336,000	28,000,000	<1,970	<1,390	<10,200	8,230	<10,200	<1,640	<6,600	161,000	<1,700	<2,720	<1,180	<3,770	<2,180	2,330	<1,960	<1,960	<1,410	<3,470	<1,730	8,260,000	
	6/1/2022	1405	8,290	<256	<311	<249	<165	<412	444,000	<324	<317	1,420	<347	<393	<450	<396	634,000	4,580,000	<393	<278	<2,040	6,100	<2,050	<328	<1,320	14,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	22,600,000	
	6/8/2022	1033	<23,800	<5.100	<6,210	<4,980	<3,300	<8,250	231,000	<6.480	<6,340	28,800	<6,940	<7,850	<8,990	<7,910	470,000	3,700,000	<7,870	<5,560	<40,900	<29,500	<40,900	18,600	<26,400	531,000	<6,810	<10,900	<4,720	<15,100	<8,700	<8,570	<7,850	<7,850	<5,630	<13,900	<6,940	15,900,000	
		1035	Initiate Vacuum Recovery Event																																				
		1058	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,340	<16.2	<15.9	60.9	30.8	56.4	<22.5	<19.8	13,300	32,900	<19.7	<13.9	<102	97.0	<102	<16.4	<66.0	166	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	70.7	135	<14.1	37.9	30.9	220,000	
		1138	<2.97	2.17	<0.776	9.65	1.80	<1.03	1,390	<0.810	<0.793	31.7	11.4	28.8	1.31	2.37	4,620	906	3.85	<0.694	<5.11	53.4	<5.12	<0.819	4.45	72.5	<0.851	1.89	<0.590	13.0	<1.09	3.89	36.2	60.4	<0.704	16.3	12.5	98,700	
		1153	Vacuum Recovery Event Terminated																																				
	6/9/2022	1300	<59.4	<12.8	17.5	30.3	45.4	<20.6	14,300	<16.2	<15.9	83.9	24.4	34.8	<22.5	<19.8	45,000	135,000	<19.7	<13.9	<102	985	<102	<16.4	<66.0	804	<17.0	<27.2	<11.8	40.7	<21.8	<21.4	43.2	83.9	<14.1	35.3	27.8	1,020,000	
		1333	<238	<51.1	<62.1	53.2	<33.0	<82.5	30,900	<64.8	<63.4	1,250	<69.4	<78.5	<89.9	<79.1	76,100	279,000	<78.7	87.5	<409	1,540	<409	<65.5	<264	12,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	223	<56.3	<139	79.3	1,220,000	
		6/12/2022	1315	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	5,960	<16.2	<15.9	790	<17.3	<19.6	<22.5	<19.8	7,930	108,000	<19.7	85.1	<102	563	<102	520	<66.0	11,700	<17.0	46.0	<11.8	64.8	<21.8	<21.4	<19.6	26.7	<14.1	<34.7	<17.3	271,000
		6/20/2022	1015	<238	<51.1	<62.1	<49.8	<33.0	<82.5	189,000	<64.8	<63.4	<189	<69.4	242	<89.9	<79.1	319,000	3,240,000	<78.7	<55.6	<409	7,960	<409	<65.5	<264	12,700	<68.1	<109	<47.2	<151	<87.0	<85.7	124	314	<56.3	157	105	10,600,000
			1040	Initiate Vacuum Recovery Event																																			
	1148		137	<12.8	<15.5	<12.4	<8.26	<20.6	1,390	<16.2	<15.9	<47.1	<17.3	57.4	<22.5	<19.8	3,870	14,200	<19.7	<13.9	<102	130	<102	<16.4	<66.0	112	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	39.3	78.0	<14.1	<34.7	<17.3	92,900	
	1256		95.5	<0.639	<0.776	<0.622	<0.413	<1.03	475	<0.810	<0.793	19.0	<0.867	15.5	<1.12	2.19	1,060	2,440	<0.983	<0.694	<5.11	64.9	<5.12	<0.819	<3.30	47.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	23.1	36.5	<0.704	5.68	5.46	35,100	
	1257		Vacuum Recovery Event Terminated																																				
	6/23/2022	1403	197	<0.639	<0.776	<0.622	<0.413	<1.03	1,050	<0.810	<0.793	18.6	<0.867	7.21	<1.12	<0.989	2,070	15,700	<0.983	<0.694	<5.11	102	<5.12	<0.819	<3.30	113	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	8.69	17.0	<0.704	3.90	3.65	88,000	
		1305	14,000	<639	<776	<622	<413	<1,030	48,600	<810	<793	3,260	<867	<982	<1,120	<989	107,000	702,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	48,700	<851	<1,360	<590	<1,880	<1,070	<982	<982	<704	<1,730	<867	2,210,000		
		6/29/2022	1255	27,300	<51.1	<62.1	161	<33.0	<82.5	339,000	<64.8	<63.4	1,690	<69.4	314	<89.9	<79.1	450,000	3,320,000	<78.7	<55.6	<409	19,000	<409	<65.5	<264	13,600	<68.1	<109	<47.2	<151	<87.0	<85.7	149	453	<56.3	<139	<69.4	19,600,000
		7/7/2022	1340	15,500	<1,190	<311	<249	<165	<412	166,000	<324	<317	3,190	<347	<393	<450	<396	303,000	2,470,000	<393	<278	<2,040	12,200	<2,050	<328	<1,320	14,500	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	6,650,000
		7/13/2022	1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	<55.1	<64.8	<63.4	<189	<69.4	258	<89.9	<79.1	781,000	6,030,000	<78.7	<55.6	<409	28,100	<409	<65.5	<264	6,640	<68.1	<109	<47.2	<151	<87.0	<85.7	266	623	<56.3	<139	251	24,500,000
	7/18/2022	1135	22,000	<256	<311	<249	<165	<412	995,000	<324	<317	<943	<347	479	<450	<396	1,020,000	12,300,000	<393	<278	<2,040	19,200	<2,050	<328	<1,320	13,900	<340	<543	<236	<753	<435								

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	8/18/2022	1231	<238	<51.1	<62.1	246	<33.0	<82.5	146,000	<64.8	<63.4	769	<69.4	<78.5	<89.9	<79.1	295,000	1,370,000	<78.7	63.9	<409	6,250	<409	<65.5	<264	15,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	148	<56.3	<139	95.4	7,520,000
	8/24/2022	1147	<297	<63.9	<77.6	<62.2	<41.3	<103	585,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	1,050,000	8,950,000	<98.3	<69.4	<511	13,900	<512	<81.9	<330	13,500	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	40,800,000
	8/31/2022	1247	132,000	<256	<311	<249	<165	<412	71,300	<324	<317	1,430	<347	<393	<450	<396	112,000	959,000	<393	<278	<328	3,660	5,530	<328	<1,320	16,500	<340	<543	<236	<753	<435	<429	<393	<282	<694	<347	2,480,000	
	9/8/2022	1247	57,500	<1,280	<1,550	<1,240	<826	<2,060	403,000	<1,620	<1,590	5,640	<1,730	<1,960	<2,250	<1,980	646,000	6,030,000	<1,970	<1,390	<10,200	46,600	<10,200	<1,640	<6,600	30,200	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	49,700	<3,470	<1,730	19,800,000
	9/15/2022	1342	<149	<31.9	<38.8	47.0	<20.7	<51.5	29,100	<40.5	<39.6	1,330	<43.4	<49.1	<56.2	<49.5	59,700	353,000	<49.2	77.8	<256	1,350	<256	<40.9	<165	6,070	<42.5	80.1	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	830,000
	9/22/2022	1337	151,000	<2,560	<3,110	<2,490	<1,650	<4,120	554,000	<3,240	<3,170	288,000	3,590	<3,930	<4,500	<3,960	573,000	35,200,000	<3,930	<2,780	<20,400	57,200	<20,500	7,700	<13,200	6,930,000	4,110	33,800	<2,360	17,100	<4,350	<4,290	6,090	<3,930	<2,820	14,000	6,680	27,700,000
	9/26/2022	1046	39,900	<639	<776	<622	<413	<1,030	641,000	<810	<793	5,710	<867	<982	<1,120	<989	1,060,000	9,450,000	<983	<694	<5,110	20,100	<5,120	<819	<3,300	38,100	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	19,600,000
		1255		Initiate Vacuum Recovery Event																																		
		1403	337	<12.8	<15.5	<12.4	<8.26	<20.6	4,170	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	4,830	33,700	<19.7	<13.9	<102	292	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	189,000
		1512	116	<12.8	<15.5	<12.4	<8.26	<20.6	830	<16.2	<15.9	68.1	<17.3	<19.6	<22.5	<19.8	986	4,120	<19.7	<13.9	<102	104	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	39,100
		1512		Vacuum Recovery Event Terminated																																		
		1609	297	<12.8	<15.5	<12.4	<8.26	<20.6	2,100	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	2,380	12,700	<19.7	<13.9	<102	330	<102	<16.4	<66.0	109	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	23.7	<14.1	<34.7	<17.3	88,400
	9/28/2022	1215	14,200	<63.9	<77.6	136	<41.3	<103	118,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	241,000	1,110,000	<98.3	<69.4	<511	6,840	<512	<81.9	<330	6,660	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,790,000
	10/4/2022	1327	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	499,000	<8,100	<7,930	766,000	<8,670	<9,820	<11,200	<9,890	908,000	6,490,000	<9,830	<6,940	<51,100	66,900	<51,200	188,000	<33,000	3,440,000	<8,510	27,500	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<17,040	<17,300	<8,670	32,000,000
	10/10/2022	1226	15,900	<128	<155	128	<82.6	<206	413,000	<162	<159	2,070	<173	<196	<225	<198	658,000	7,760,000	<197	<139	<1,020	11,900	<1,020	<164	<660	9,510	<170	<272	<118	<377	<218	1,390	<196	206	<141	<347	<173	24,600,000
		1230		Initiate Vacuum Recovery Event																																		
		1326	71.1	1.52	<0.776	0.741	9.21	<1.03	1,400	<0.810	<0.793	14.8	<0.867	3.48	<1.12	1.36	3,850	14,900	<0.983	0.913	<5.11	109	<5.12	<0.819	<3.30	8.50	<0.851	<1.36	<0.590	3.08	<1.09	<1.07	5.79	8.05	<0.704	4.94	2.65	124,000
		1438	94.8	0.923	<0.776	0.672	2.58	<1.03	1,280	<0.810	<0.793	16.3	<0.867	2.65	<1.12	1.63	3,040	13,400	<0.983	0.934	<5.11	92.0	<5.12	<0.819	<3.30	120	<0.851	<1.36	<0.590	1.96	<1.09	<1.07	2.68	6.43	<0.704	<0.867	1.82	104,000
		1438		Vacuum Recovery Event Terminated																																		
		1538	<2.97	4.12	<0.776	15.5	16.6	<1.03	14,500	<0.810	<0.793	120	<0.867	23.3	<1.12	<0.989	34,700	122,000	<0.983	<0.694	<5.11	263	<5.12	<0.819	<3.30	49.2	<0.851	<1.36	<0.590	9.15	<1.09	<1.07	19.6	56.0	<0.704	12.7	17.6	698,000
	10/14/2022	1136	21,900	<128	<155	181	<82.6	<206	121,000	<162	<159	2,000	<173	<196	<225	<198	193,000	2,850,000	<197	<139	<1,020	8,880	<1,020	<164	<660	6,490	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	3,990,000
	10/19/2022	1350	10,600	<63.9	<77.6	<62.2	<41.3	<103	382,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	769,000	6,280,000	<98.3	<69.4	<511	9,170	<512	<81.9	<330	6,190	<85.1	760	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	22,600,000
	10/24/2022	1100	13,700	<63.9	<77.6	<62.2	<41.3	<103	88,200	<81.0	<79.3	6,200	211	339	<112	<98.9	174,000	1,030,000	<98.3	<69.4	<511	6,900	<512	<81.9	<330	12,300	<170	<136	<59.0	1,020	<109	<107	312	226	<70.4	806	273	<4,130,000
		1100		Initiate Vacuum Recovery Event																																		
		1208	<59.4	15.4	<15.5	<12.4	<8.26	<20.6	<13.8	<16.2	<15.9	207	22.1	<19.6	<22.5	<19.8	22.2	62.8	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	96.8	<21.8	<21.4	<19.6	<19.6	<14.1	43.3	17.4	<16,500
		1308	97.4	<0.639	<0.776	4.45	2.07	<1.03	149	<0.810	<0.793	57.9	1.21	<0.982	<1.12	2.45	442	1,290	<0.983	<0.694	<5.11	61.3	<5.12	<0.819	<3.30	31.0	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	2.36	5.45	<0.704	3.86	1.53	9,670
		1308		Vacuum Recovery Event Terminated																																		
		1408	335	<0.639	<0.776	<622	<413	<1.03</																														

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	1/23/2023	1111	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	486,000	<8,100	<7,930	1,260,000	<8,670	<9,820	<11,200	<9,890	109,000	864,000	<9,830	18,800	<51,100	<36,900	<51,200	40,900	<33,000	1,530,000	<8,510	<13,600	<5,900	27,200	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	12,300,000
		1113	Initiate Vacuum Recovery Event																																			
		1320	<297	<63.9	<77.6	<62.2	<41.3	<103	1,770	<81.0	<79.3	3,560	<86.7	<98.2	<112	<98.9	589	3,740	<98.3	319	<511	<369	<512	<81.9	<330	27,500	<85.1	153	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	116,000
		1420	<297	<63.9	<77.6	<62.2	<41.3	<103	1,040	<81.0	<79.3	4,000	<86.7	<98.2	<112	<98.9	362	2,780	<98.3	358	<511	<369	<512	<81.9	<330	10,600	<85.1	245	<59.0	<188	<109	<107	<98.2	<98.2	2,150	<173	<86.7	122,000
		1420	Vacuum Recovery Event Terminated																																			
	2/2/2023	1520	<297	<63.9	<77.6	<62.2	<41.3	<103	2,240	<81.0	<79.3	4,200	<86.7	<98.2	<112	<98.9	646	4,410	<98.3	378	<511	<369	<512	<81.9	<330	12,800	<85.1	160	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	109,000
		1205	10,800	<639	<776	<622	<413	<1,030	413,000	<810	<793	<2,360	<867	<982	<1,120	<989	65,400	733,000	<983	<694	<5,110	<3690	<5,120	<819	<3,300	19,100	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	5,160,000
	2/7/2023	1105	5,940	<639	<776	<622	<413	<1,030	207,000	<810	<793	<2,360	<867	<982	<1,120	<989	34,200	213,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	10,600	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	3,530,000
		1140	Initiate Vacuum Recovery Event																																			
		1248	140	<6.39	<7.76	<6.22	<4.13	<10.3	1,790	<8.10	<7.93	24.1	<8.67	<9.82	<11.2	<9.89	<8.18	1,280	<9.83	<6.94	<51.1	43.3	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	24,500
		1348	115	<6.39	<7.76	<6.22	<4.13	<10.3	950	<8.10	<7.93	<23.6	<8.67	<9.82	<11.2	<9.89	<8.18	532	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	13,700
		1348	Vacuum Recovery Event Terminated																																			
	2/8/2023	1449	220	<6.39	<7.76	<6.22	<4.13	<10.3	2,660	<8.10	<7.93	<23.6	<8.67	<9.82	<11.2	<9.89	<8.18	1,800	<9.83	<6.94	<51.1	<36.9	<51.2	<8.19	<33.0	<30.7	<8.51	<13.6	<5.90	<18.8	<10.9	<10.7	<9.82	<9.82	<7.04	<17.3	<8.67	31,900
		1327	509	<63.9	<77.6	<62.2	<41.3	<103	6,650	<81.0	<79.3	241	<86.7	<98.2	<112	<98.9	2,430	5,960	<98.3	<69.4	<511	<369	<512	<81.9	<330	752	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	85,500
	2/17/2023	1347	<297	<63.9	<77.6	159	<41.3	<103	24,900	<81.0	<79.3	3,210	<86.7	<98.2	<112	<98.9	14,100	<4,440	<98.3	<69.4	<511	1,390	<512	<81.9	<330	1,130	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	772,000
	2/20/2023	1052	383,000	<63.9	<77.6	<62.2	<41.3	<103	9,950	185	<79.3	5,450	<86.7	<98.2	<112	<98.9	6,130	67,000	<98.3	182	<511	1,600	<512	532	<330	21,900	<85.1	183	<59.0	418	<109	<107	<98.2	<98.2	<70.4	189	<86.7	367,000
		1055	Initiate Vacuum Recovery Event																																			
		1203	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	223	<16.2	<15.9	47.3	<17.3	<19.6	<22.5	<19.8	200	596	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	<16,500
		1300	<297	<63.9	<77.6	<62.2	<41.3	<103	111	185	<79.3	1,790	<86.7	<98.2	<112	<98.9	97.3	4,480	<98.3	120	<511	<369	<512	463	<330	12,900	<85.1	212	<59.0	253	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1300	Vacuum Recovery Event Terminated																																			
	2/22/2023	1408	<297	<63.9	<77.6	<62.2	<41.3	<103	2,420	<81.0	<79.3	1,920.0	<86.7	<98.2	<112	<98.9	1,860	9,240	<98.3	134	<511	442	<512	770	<330	7,940	<85.1	<136	<59.0	265	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	114,000
		1341	<297	<63.9	<77.6	<62.2	<41.3	<103	2,350	<81.0	<79.3	1,730	<86.7	<98.2	<112	<98.9	1,620	9,270	<98.3	86.1	<511	784	<512	508	<330	10,400	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
	3/3/2023	1012	9,620	<63.9	<77.6	85.9	<41.3	<103	72,300	<81.0	<79.3	1,500	455	190	<112	<98.9	<81.8	242,000	<98.3	<69.4	<511	2,980	<512	<81.9	<330	4,130	<85.1	<136	<59.0	<188	<109	<107	117	<98.2	<70.4	486	185	1,630,000
	3/6/2023	1019	1,160	18,600	<77.6	<62.2	<41.3	<103	123,000	<81.0	<79.3	1,600	<1,730	8,250	<112	<98.9	25,700	222,000	6,000	<69.4	<511	<369	<512	<81.9	<330	7,890	<85.1	<136	<59.0	3770	<109	<107	3,070	1,330	<70.4	47,300	18,300	1,670,000
		1020	Initiate Vacuum Recovery Event																																			
		1127	1,050	3,100	<77.6	<62.2	<41.3	<103	12,800	<81.0	<79.3	1,440	74,600	13,700	<112	<98.9	213,000	7,620	7,960	<69.4	<511	<369	<512	<81.9	<330	7,300	<85.1	<136	<59.0	141,000	<109	<107	6,230	2,420	<70.4	49,900	21,400	4,750,000
		1233	2,020	6,260	<77.6	1,810	<41.3	<103	25,900	<81.0	<79.3	1,840	68,900	28,300	<112	<98.9	56,400	16,600	16,400	<69.4	<511	375	<512	<81.9	<330	4,400	<85.1	<136	<59.0	63,300	<109	<107	13,300	5,250	<70.4	46,400	43,400	2,890,000
		1233	Vacuum Recovery Event Terminated																																			
	3/8/2023	1333	2,300	<63.9	<77.6	<62.2	<41.3	<103	32,900	<81.0	<79.3	1,650	1,340	291	<112	<98.9	<81.8	26,900	202	<69.4	<511	702	<512	<81.9	<330	5,970	<85.1	<136	<59.0	<188	<109	<107	163	<98.2	<70.4	1,080	406	1,310,000
		1313	2,000	4,760	<77.6	5,100	<41.3	<103	28,400	<81.0	<79.3	1,450	39,000	<98.2	<112	<98.9	34,200	48,300	3,650	<69.4	<511	436	<512	<81.9	<330	2,060	<85.1	<136	<59.0	44,400	<109	<107	1,990	839	<70.4	27,100	10,800	1,660,000
	3/15/2023	1100	<297	859	<77.6	1,400	<41.3	<103	25,200	<81.0	<79.3	1,510	23,900	1,330	<112	<98.9	21,600	41,200	3,060	116	<511	<369	<512	1,060	<330	3,690	<85.1	<136	<59.0	21,700	<109	<107	1,920	849	<70.4	17,500	7,720	946,000
	3/20/2023	1023	1,550	319	<77.6	632	<41.3	<103	12,600	<81.0	<79.3	2,390	10,500	366	<112	<98.9	11,500	58,200	1,060	<69.4	<511	<369	<512	<81.9	<330	4,550	<85.1	<136	<59.0	10,100	<109	<107	362	190	<70.4	6,500	2,640	690,000
		1024	Initiate Vacuum Recovery Event																																			
		1132	2,730	119	<77.6	<62.2	<41.3	<103	3,820	<81.0	<79.3	3,750	2,150	<98.2	<112	<98.9	3,430	12,900	236	<69.4	<511	<369	<512	<81.9	<330	5,160	<85.1	<136	<59.0	2,540	<109	<107	124	<98.2	<70.4	1,530	555	184,000
		1240	1,550	<63.9	<77.6	<62.2	<41.3	<103	613	<81.0	<79.3	7,860	707	<98.2	<112	<98.9	589	2,860	160	365	<511	<369	<512	<81.9	<330	3,150	<85.1	<136	<59.0	689	<109	<107	98.7	<98.2	<70.4	754	283	<82,600

TABLE 4 AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY Levey Well Oxy Permian Ltd. Hobbs, New Mexico Ensolum Project No. 03B1417001																																						
Sample Designation	Date	Time	(ug/m3)																																			
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Napthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction
Levey Well	6/9/2023	1200	2,050	106	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	1,640	355	<98.2	<112	<98.9	1,840	101,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	16,300	<85.1	170	<59.0	1,190	<109	<107	1,440	618	<70.4	3,050	1,480	171,000
	6/15/2023	1227	<297	<63.9	<77.6	309	<41.3	<103	102,000	<81.0	<79.3	1,590	<86.7	<98.2	<112	<98.9	98,200	2,210,000	<98.3	92.4	<511	<369	<512	<1,640	<330	10,100	<1,700	<2,720	<59.0	<3,770	<109	<107	<98.2	<98.2	<70.4	<3,470	<1,730	1,480,000
	6/23/2023	1139	<1,490	<319	<388	420	44,200	<515	98,100	<405	<396	<2,360	533	<491	<562	<495	89,200	1,610,000	<492	<347	<2,560	<1,840	<2,560	<409	<1,650	14,800	<425	<679	<295	<942	<544	<536	<491	<491	<352	1,290	598	2,430,000
	6/26/2023	0850	<2.97	2.56	<0.776	19.8	<413	<1.03	3,750	<0.810	<0.793	392	22.6	9.77	<1.12	<0.989	4,830	39,100	6.10	<0.694	<5.11	149	<5.12	<0.819	<3.30	24.8	<0.851	34.1	<0.590	17.9	<1.09	<1.07	18.8	12.2	<0.704	41.6	30.1	146,000
		0851	Initiate Vacuum Recovery Event																																			
		1003	<2.97	3.80	<0.776	22.8	<413	<1.03	365	<0.810	<0.793	145	7.20	4.36	1.31	2.68	528	3,090	2.00	1.89	<5.11	36.3	<5.12	<0.819	<3.30	40.8	1.06	21.9	<0.590	12.4	<1.09	<1.07	10.9	6.23	<0.704	12.6	9.97	16,900
		1108	<2.97	2.35	<0.776	16.7	4.21	<1.03	319	<0.810	<0.793	77.9	8.06	7.26	1.36	2.61	375	2,520	2.87	<0.694	<5.11	37.2	<5.12	<0.819	<3.30	26.1	1.27	30.6	<0.590	5.57	<1.09	<1.07	25.1	10.6	<0.704	15.9	13.2	15,900
		1108	Vacuum Recovery Event Terminated																																			
		1208	<2.97	2.25	1.33	68.8	8.90	<1.03	1,030	<0.810	<0.793	200	9.93	6.18	1.19	2.49	1,420	8,570	2.77	1.69	<5.11	109	<5.12	<0.819	<3.30	150	1.27	27.7	<0.590	16.1	<1.09	<1.07	19.8	9.13	<0.704	16.2	12.4	41,700
	7/7/2023	1305	<297	<63.9	<77.6	212	<41.3	<103	59,200	90.7	<79.3	<471	238	<98.2	<112	<98.9	50,700	561,000	<98.3	88.9	<511	<369	<512	<1,640	<330	10,500	<85.1	<136	<59.0	242	<109	<107	149	108	<70.4	507	304	1,070,000
	7/13/2023	1438	<1,190	<639	<311	<249	<165	<1,030	4,750	<810	<317	5,450	<867	<982	<450	<396	3,110	72,300	<983	<278	<5,110	<1,470	<5,120	<819	<3,300	20,600	<851	<1,360	<236	<1,880	<435	<1,070	<982	<982	<282	<1,730	<867	<330,000
	7/17/2023	1013	8,410	<128	<155	<124	<82.6	<206	153,000	<162	<159	2,110	335	288	<225	<198	190,000	2,780,000	<197	<139	<1,020	3,240	<1,020	<164	<660	24,600	<170	<272	<118	<377	<218	<214	<196	<196	<141	694	405	6,730,000
	7/27/2023	0928	<59.4	23.6	<15.5	3,950	293	<20.6	7,270	<16.2	<15.9	354	245	29.0	<22.5	<19.8	8,060	54,600	36.5	<13.9	<102	1,390	<102	<16.4	<66.0	3,220	<17.0	<27.2	<11.8	207	<21.8	<21.4	42.7	26.6	<14.1	216	126	178,000
	7/31/2023	0930	<29,700	<6,390	<7,760	8,780	<4,130	<10,300	7,230	<8,100	<7,930	<47,100	<8,670	<9,820	<11,200	<9,890	<8,180	85,000	<9,830	<6,940	<51,100	<36,900	<51,200	<8,190	<33,000	137,000	<8,510	<13,600	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	<8,260,000

NOTES:
ug/m3 - micrograms per cubic meter of air



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

880-30376-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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



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7/18/2023 12:19:36 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-30376-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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)

Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Case Narrative

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Job ID: 880-30376-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-30376-1****Receipt**

The sample was received on 7/6/2023 9:00 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 1.4°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-111461 recovered above the upper control limit for 2,2-Dichloropropane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-111461/2).

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-111461 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-111461 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-111317 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.

Metals

Method 200.7: Due to the high concentration of Calcium and Sodium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-111483 and analytical batch 860-111695 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-30376-1

Date Collected: 07/05/23 11:30

Matrix: Water

Date Received: 07/06/23 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00328		0.00100	0.000460	mg/L		07/10/23 10:53	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		07/10/23 10:53	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		07/10/23 10:53	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		07/10/23 10:53	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		07/10/23 10:53	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		07/10/23 10:53	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		07/10/23 10:53	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		07/10/23 10:53	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		07/10/23 10:53	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		07/10/23 10:53	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		07/10/23 10:53	1
Chloromethane	0.0173		0.0100	0.00204	mg/L		07/10/23 10:53	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		07/10/23 10:53	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		07/10/23 10:53	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		07/10/23 10:53	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		07/10/23 10:53	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		07/10/23 10:53	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		07/10/23 10:53	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		07/10/23 10:53	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		07/10/23 10:53	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/10/23 10:53	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/10/23 10:53	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		07/10/23 10:53	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		07/10/23 10:53	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		07/10/23 10:53	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		07/10/23 10:53	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		07/10/23 10:53	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		07/10/23 10:53	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		07/10/23 10:53	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		07/10/23 10:53	1
Ethylbenzene	0.0126		0.00100	0.000411	mg/L		07/10/23 10:53	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		07/10/23 10:53	1
Isopropylbenzene	0.00636		0.00100	0.000613	mg/L		07/10/23 10:53	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		07/10/23 10:53	1
m,p-Xylenes	0.0508	F1	0.0100	0.00124	mg/L		07/10/23 10:53	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		07/10/23 10:53	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		07/10/23 10:53	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		07/10/23 10:53	1
N-Propylbenzene	0.00280		0.00100	0.000498	mg/L		07/10/23 10:53	1
o-Xylene	0.00842		0.00100	0.000551	mg/L		07/10/23 10:53	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		07/10/23 10:53	1
sec-Butylbenzene	0.00119		0.00100	0.000468	mg/L		07/10/23 10:53	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		07/10/23 10:53	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		07/10/23 10:53	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		07/10/23 10:53	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		07/10/23 10:53	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		07/10/23 10:53	1
Toluene	0.0241		0.00100	0.000475	mg/L		07/10/23 10:53	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		07/10/23 10:53	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 07/05/23 11:30
Date Received: 07/06/23 09:00

Lab Sample ID: 880-30376-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			07/10/23 10:53	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L			07/10/23 10:53	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			07/10/23 10:53	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L			07/10/23 10:53	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L			07/10/23 10:53	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			07/10/23 10:53	1
Trichlorofluoromethane	<0.000638	U *	0.00100	0.000638	mg/L			07/10/23 10:53	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L			07/10/23 10:53	1
1,2,4-Trimethylbenzene	0.0129		0.00100	0.000417	mg/L			07/10/23 10:53	1
1,3,5-Trimethylbenzene	0.00384		0.00100	0.000456	mg/L			07/10/23 10:53	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L			07/10/23 10:53	1
Xylenes, Total	0.0592		0.0100	0.00124	mg/L			07/10/23 10:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 124					07/10/23 10:53	1
Dibromofluoromethane (Surr)	99		75 - 131					07/10/23 10:53	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144					07/10/23 10:53	1
Toluene-d8 (Surr)	99		80 - 120					07/10/23 10:53	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.308	J	0.500	0.0711	mg/L			07/08/23 05:01	1
Nitrate as N	0.0838	J H	0.100	0.0391	mg/L			07/08/23 05:01	1
Chloride	210		0.500	0.250	mg/L			07/08/23 05:01	1
Nitrite as N	1.08	H	0.100	0.0293	mg/L			07/08/23 05:01	1
Fluoride	0.211	J	0.500	0.100	mg/L			07/08/23 05:01	1
Sulfate	41.5		0.500	0.200	mg/L			07/08/23 05:01	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270		10.0	5.76	mg/L		07/10/23 09:30	07/10/23 14:48	50
Magnesium	52.0		0.200	0.0428	mg/L		07/10/23 09:30	07/10/23 14:34	1
Potassium	4.24		0.500	0.0914	mg/L		07/10/23 09:30	07/10/23 14:34	1
Sodium	84.5		0.500	0.152	mg/L		07/10/23 09:30	07/10/23 14:34	1
SiO2	63.3		1.07	0.471	mg/L		07/10/23 09:30	07/10/23 14:34	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-5.11				%			07/18/23 08:25	1
Alkalinity (SM 2320B)	744		4.00	4.00	mg/L			07/10/23 13:37	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	744		4.00	4.00	mg/L			07/10/23 13:37	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/10/23 13:37	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/10/23 13:37	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/10/23 13:37	1
Total Dissolved Solids (SM 2540C)	1140		10.0	10.0	mg/L			07/07/23 09:09	1
pH (SM 4500 H+ B)	6.7	HF			SU			07/10/23 16:07	1
Temperature (SM 4500 H+ B)	21.3	HF			Degrees C			07/10/23 16:07	1

Eurofins Midland

Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-120)
880-30376-1	Levey Well	95	99	101	99
880-30376-1 MS	Levey Well	96	96	97	99
LCS 860-111461/3	Lab Control Sample	96	97	96	98
LCSD 860-111461/4	Lab Control Sample Dup	95	97	95	98
MB 860-111461/10	Method Blank	95	99	100	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-111461/10

Matrix: Water

Analysis Batch: 111461

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/10/23 10:32	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/10/23 10:32	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/10/23 10:32	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/10/23 10:32	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/10/23 10:32	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/10/23 10:32	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/10/23 10:32	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/10/23 10:32	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/10/23 10:32	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/10/23 10:32	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/10/23 10:32	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/10/23 10:32	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/10/23 10:32	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/10/23 10:32	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/10/23 10:32	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/10/23 10:32	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/10/23 10:32	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/10/23 10:32	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/10/23 10:32	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/10/23 10:32	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/10/23 10:32	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/10/23 10:32	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/10/23 10:32	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/10/23 10:32	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/10/23 10:32	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/10/23 10:32	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/10/23 10:32	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/10/23 10:32	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/10/23 10:32	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/10/23 10:32	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/10/23 10:32	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/10/23 10:32	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/10/23 10:32	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/10/23 10:32	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/10/23 10:32	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/10/23 10:32	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/10/23 10:32	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/10/23 10:32	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/10/23 10:32	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/10/23 10:32	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/10/23 10:32	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/10/23 10:32	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/10/23 10:32	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/10/23 10:32	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/10/23 10:32	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/10/23 10:32	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/10/23 10:32	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/10/23 10:32	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-111461/10
Matrix: Water
Analysis Batch: 111461

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/10/23 10:32	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/10/23 10:32	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/10/23 10:32	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/10/23 10:32	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/10/23 10:32	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/10/23 10:32	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/10/23 10:32	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/10/23 10:32	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/10/23 10:32	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/10/23 10:32	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/10/23 10:32	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/10/23 10:32	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/10/23 10:32	1
	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 124				07/10/23 10:32	1
Dibromofluoromethane (Surr)	99		75 - 131				07/10/23 10:32	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144				07/10/23 10:32	1
Toluene-d8 (Surr)	99		80 - 120				07/10/23 10:32	1

Lab Sample ID: LCS 860-111461/3
Matrix: Water
Analysis Batch: 111461

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	0.04720		mg/L		94	75 - 125
Bromobenzene	0.0500	0.05424		mg/L		108	75 - 125
Bromochloromethane	0.0500	0.05325		mg/L		107	60 - 140
Bromodichloromethane	0.0500	0.05016		mg/L		100	75 - 125
Bromoform	0.0500	0.05218		mg/L		104	70 - 130
Bromomethane	0.0500	0.05582		mg/L		112	60 - 140
2-Butanone	0.250	0.1777		mg/L		71	60 - 140
Carbon tetrachloride	0.0500	0.05301		mg/L		106	70 - 130
Chlorobenzene	0.0500	0.04994		mg/L		100	65 - 135
Chloroethane	0.0500	0.04601		mg/L		92	60 - 140
Chloroform	0.0500	0.04923		mg/L		98	70 - 121
Chloromethane	0.0500	0.04642		mg/L		93	60 - 140
2-Chlorotoluene	0.0500	0.05026		mg/L		101	73 - 125
4-Chlorotoluene	0.0500	0.05024		mg/L		100	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04500		mg/L		90	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04830		mg/L		97	74 - 125
Dibromochloromethane	0.0500	0.05225		mg/L		105	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04465		mg/L		89	59 - 125
1,2-Dibromoethane	0.0500	0.04938		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.05230		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05343		mg/L		107	75 - 125
1,4-Dichlorobenzene	0.0500	0.05342		mg/L		107	75 - 125
Dichlorodifluoromethane	0.0500	0.05705		mg/L		114	50 - 150

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-111461/3
Matrix: Water
Analysis Batch: 111461

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04460		mg/L		89	70 - 130
1,2-Dichloroethane	0.0500	0.05081		mg/L		102	72 - 130
1,1-Dichloroethene	0.0500	0.05348		mg/L		107	50 - 150
1,2-Dichloropropane	0.0500	0.04387		mg/L		88	74 - 125
1,3-Dichloropropane	0.0500	0.04637		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05726		mg/L		115	75 - 125
1,1-Dichloropropene	0.0500	0.04769		mg/L		95	75 - 125
Ethylbenzene	0.0500	0.04956		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05977		mg/L		120	75 - 125
Isopropylbenzene	0.0500	0.05175		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.05115		mg/L		102	71 - 125
m,p-Xylenes	0.0500	0.05101		mg/L		102	75 - 125
MTBE	0.0500	0.05235		mg/L		105	65 - 135
Naphthalene	0.0500	0.04931		mg/L		99	70 - 130
n-Butylbenzene	0.0500	0.05001		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.05010		mg/L		100	75 - 125
o-Xylene	0.0500	0.05008		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05234		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05136		mg/L		103	75 - 125
Styrene	0.0500	0.05022		mg/L		100	75 - 125
tert-Butylbenzene	0.0500	0.05251		mg/L		105	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05273		mg/L		105	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04424		mg/L		88	74 - 125
Tetrachloroethene	0.0500	0.05522		mg/L		110	71 - 125
Toluene	0.0500	0.04864		mg/L		97	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05671		mg/L		113	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05057		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05290		mg/L		106	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05370		mg/L		107	75 - 135
1,1,1-Trichloroethane	0.0500	0.05273		mg/L		105	70 - 130
1,1,2-Trichloroethane	0.0500	0.04658		mg/L		93	70 - 130
Trichloroethene	0.0500	0.05297		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.06901		mg/L		138	60 - 140
1,2,3-Trichloropropane	0.0500	0.04320		mg/L		86	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05214		mg/L		104	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05185		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.05293		mg/L		106	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	98		80 - 120

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-111461/4

Matrix: Water

Analysis Batch: 111461

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.04775		mg/L		96	75 - 125	1	25
Bromobenzene	0.0500	0.05369		mg/L		107	75 - 125	1	25
Bromochloromethane	0.0500	0.05369		mg/L		107	60 - 140	1	25
Bromodichloromethane	0.0500	0.05075		mg/L		102	75 - 125	1	25
Bromoform	0.0500	0.05305		mg/L		106	70 - 130	2	25
Bromomethane	0.0500	0.05781		mg/L		116	60 - 140	4	25
2-Butanone	0.250	0.1823		mg/L		73	60 - 140	3	25
Carbon tetrachloride	0.0500	0.05179		mg/L		104	70 - 130	2	25
Chlorobenzene	0.0500	0.05003		mg/L		100	65 - 135	0	25
Chloroethane	0.0500	0.04622		mg/L		92	60 - 140	0	25
Chloroform	0.0500	0.05039		mg/L		101	70 - 121	2	25
Chloromethane	0.0500	0.04694		mg/L		94	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05086		mg/L		102	73 - 125	1	25
4-Chlorotoluene	0.0500	0.05028		mg/L		101	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04515		mg/L		90	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.04894		mg/L		98	74 - 125	1	25
Dibromochloromethane	0.0500	0.05249		mg/L		105	73 - 125	0	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04451		mg/L		89	59 - 125	0	25
1,2-Dibromoethane	0.0500	0.04992		mg/L		100	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.05176		mg/L		104	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.05293		mg/L		106	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05264		mg/L		105	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.05767		mg/L		115	50 - 150	1	25
1,1-Dichloroethane	0.0500	0.04551		mg/L		91	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.05116		mg/L		102	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05465		mg/L		109	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04258		mg/L		85	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04669		mg/L		93	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05764		mg/L		115	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04875		mg/L		98	75 - 125	2	25
Ethylbenzene	0.0500	0.05004		mg/L		100	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05842		mg/L		117	75 - 125	2	25
Isopropylbenzene	0.0500	0.05190		mg/L		104	75 - 125	0	25
Methylene Chloride	0.0500	0.05231		mg/L		105	71 - 125	2	25
m,p-Xylenes	0.0500	0.05103		mg/L		102	75 - 125	0	25
MTBE	0.0500	0.05305		mg/L		106	65 - 135	1	25
Naphthalene	0.0500	0.04938		mg/L		99	70 - 130	0	25
n-Butylbenzene	0.0500	0.04937		mg/L		99	75 - 125	1	25
N-Propylbenzene	0.0500	0.04965		mg/L		99	75 - 125	1	25
o-Xylene	0.0500	0.05045		mg/L		101	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05206		mg/L		104	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05055		mg/L		101	75 - 125	2	25
Styrene	0.0500	0.05019		mg/L		100	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05191		mg/L		104	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05352		mg/L		107	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04457		mg/L		89	74 - 125	1	25
Tetrachloroethene	0.0500	0.05571		mg/L		111	71 - 125	1	25
Toluene	0.0500	0.04939		mg/L		99	70 - 130	2	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-111461/4
Matrix: Water
Analysis Batch: 111461

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
trans-1,2-Dichloroethene	0.0500	0.05732		mg/L		115	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.05057		mg/L		101	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.05255		mg/L		105	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.05378		mg/L		108	75 - 135	0	25
1,1,1-Trichloroethane	0.0500	0.05396		mg/L		108	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04706		mg/L		94	70 - 130	1	25
Trichloroethene	0.0500	0.05389		mg/L		108	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.07036	*+	mg/L		141	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.04337		mg/L		87	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.05195		mg/L		104	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.05164		mg/L		103	60 - 140	0	25
Vinyl chloride	0.0500	0.05440		mg/L		109	60 - 140	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 880-30376-1 MS
Matrix: Water
Analysis Batch: 111461

Client Sample ID: Levey Well
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00328		2.50	2.311		mg/L		92	66 - 142
Bromobenzene	<0.000665	U	2.50	2.559		mg/L		102	75 - 125
Bromochloromethane	<0.000657	U	2.50	2.417		mg/L		97	60 - 140
Bromodichloromethane	<0.000552	U	2.50	2.417		mg/L		97	75 - 125
Bromoform	<0.000633	U	2.50	2.475		mg/L		99	75 - 125
Bromomethane	<0.00142	U	2.50	2.351		mg/L		94	60 - 140
2-Butanone	<0.00828	U	12.5	8.425		mg/L		67	60 - 140
Carbon tetrachloride	<0.000896	U	2.50	2.534		mg/L		101	62 - 125
Chlorobenzene	<0.000530	U	2.50	2.353		mg/L		94	60 - 133
Chloroethane	<0.00198	U	2.50	2.124		mg/L		85	60 - 140
Chloroform	<0.000643	U	2.50	2.341		mg/L		94	70 - 130
Chloromethane	0.0173		2.50	1.852		mg/L		73	60 - 140
2-Chlorotoluene	<0.00118	U	2.50	2.415		mg/L		97	73 - 125
4-Chlorotoluene	<0.000472	U	2.50	2.413		mg/L		97	74 - 125
cis-1,2-Dichloroethene	<0.000714	U	2.50	2.089		mg/L		84	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	2.50	2.301		mg/L		92	74 - 125
Dibromochloromethane	<0.000547	U	2.50	2.463		mg/L		99	73 - 125
1,2-Dibromo-3-Chloropropane	<0.00127	U	2.50	2.154		mg/L		86	59 - 125
1,2-Dibromoethane	<0.000999	U	2.50	2.360		mg/L		94	73 - 125
1,2-Dichlorobenzene	<0.000509	U	2.50	2.478		mg/L		99	75 - 125
1,3-Dichlorobenzene	<0.000513	U	2.50	2.522		mg/L		101	75 - 125
1,4-Dichlorobenzene	<0.000513	U	2.50	2.513		mg/L		101	75 - 125
Dichlorodifluoromethane	<0.000919	U	2.50	1.739		mg/L		70	70 - 130
1,1-Dichloroethane	<0.000635	U	2.50	2.103		mg/L		84	72 - 125

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

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

Lab Sample ID: 880-30376-1 MS					Client Sample ID: Levey Well						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 111461											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,2-Dichloroethane	<0.000590	U	2.50	2.427		mg/L		97	68 - 127		
1,1-Dichloroethene	<0.000738	U	2.50	2.498		mg/L		100	59 - 172		
1,2-Dichloropropane	<0.000667	U	2.50	2.087		mg/L		83	74 - 125		
1,3-Dichloropropane	<0.000514	U	2.50	2.230		mg/L		89	75 - 125		
2,2-Dichloropropane	<0.000780	U	2.50	2.715		mg/L		109	75 - 125		
1,1-Dichloropropene	<0.00160	U	2.50	2.285		mg/L		91	75 - 125		
Ethylbenzene	0.0126		2.50	2.644		mg/L		105	75 - 125		
Hexachlorobutadiene	<0.00126	U	2.50	2.819		mg/L		113	75 - 125		
Isopropylbenzene	0.00636		2.50	2.581		mg/L		103	75 - 125		
Methylene Chloride	<0.00173	U	2.50	2.352		mg/L		94	75 - 125		
m,p-Xylenes	0.0508	F1	2.50	3.399	F1	mg/L		134	75 - 125		
MTBE	<0.00139	U	2.50	2.418		mg/L		97	65 - 135		
Naphthalene	<0.00135	U	2.50	2.355		mg/L		94	70 - 130		
n-Butylbenzene	<0.000644	U	2.50	2.387		mg/L		95	75 - 125		
N-Propylbenzene	0.00280		2.50	2.467		mg/L		99	75 - 125		
o-Xylene	0.00842		2.50	2.578		mg/L		103	75 - 125		
p-Cymene (p-Isopropyltoluene)	<0.000919	U	2.50	2.513		mg/L		101	75 - 125		
sec-Butylbenzene	0.00119		2.50	2.462		mg/L		98	75 - 125		
Styrene	<0.000655	U	2.50	2.394		mg/L		96	75 - 125		
tert-Butylbenzene	<0.000442	U	2.50	2.489		mg/L		100	75 - 125		
1,1,1,2-Tetrachloroethane	<0.000644	U	2.50	2.501		mg/L		100	72 - 125		
1,1,2,2-Tetrachloroethane	<0.000470	U	2.50	2.090		mg/L		84	74 - 125		
Tetrachloroethene	<0.000801	U	2.50	2.696		mg/L		108	71 - 125		
Toluene	0.0241		2.50	2.870		mg/L		114	59 - 139		
trans-1,2-Dichloroethene	<0.000945	U	2.50	2.639		mg/L		106	75 - 125		
trans-1,3-Dichloropropene	<0.00127	U	2.50	2.401		mg/L		96	66 - 125		
1,2,3-Trichlorobenzene	<0.00217	U	2.50	2.505		mg/L		100	75 - 137		
1,2,4-Trichlorobenzene	<0.00175	U	2.50	2.575		mg/L		103	75 - 135		
1,1,1-Trichloroethane	<0.00169	U	2.50	2.555		mg/L		102	75 - 125		
1,1,2-Trichloroethane	<0.000511	U	2.50	2.220		mg/L		89	75 - 127		
Trichloroethene	<0.000791	U	2.50	2.553		mg/L		102	62 - 137		
Trichlorofluoromethane	<0.000638	U **	2.50	3.208		mg/L		128	60 - 140		
1,2,3-Trichloropropane	<0.000490	U	2.50	2.054		mg/L		82	75 - 125		
1,2,4-Trimethylbenzene	0.0129		2.50	2.724		mg/L		108	75 - 125		
1,3,5-Trimethylbenzene	0.00384		2.50	2.532		mg/L		101	70 - 125		
Vinyl chloride	<0.000638	U	2.50	2.144		mg/L		86	60 - 140		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		74 - 124								
Dibromofluoromethane (Surr)	96		75 - 131								
1,2-Dichloroethane-d4 (Surr)	97		63 - 144								
Toluene-d8 (Surr)	99		80 - 120								

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-111317/3					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 111317									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Bromide	<0.0711	U	0.500	0.0711 mg/L			07/07/23 11:50	1	
Chloride	<0.250	U	0.500	0.250 mg/L			07/07/23 11:50	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			07/07/23 11:50	1	
Sulfate	<0.200	U	0.500	0.200 mg/L			07/07/23 11:50	1	

Lab Sample ID: MB 860-111317/52					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 111317									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Bromide	<0.0711	U	0.500	0.0711 mg/L			07/07/23 23:29	1	
Chloride	<0.250	U	0.500	0.250 mg/L			07/07/23 23:29	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			07/07/23 23:29	1	
Sulfate	<0.200	U	0.500	0.200 mg/L			07/07/23 23:29	1	

Lab Sample ID: LCS 860-111317/53					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 111317									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	10.0	9.771		mg/L		98	90 - 110		
Chloride	10.0	9.299		mg/L		93	90 - 110		
Fluoride	10.0	9.738		mg/L		97	90 - 110		
Sulfate	10.0	9.241		mg/L		92	90 - 110		

Lab Sample ID: LCSD 860-111317/54					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 111317									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Bromide	10.0	9.795		mg/L		98	90 - 110	0	20
Chloride	10.0	9.340		mg/L		93	90 - 110	0	20
Fluoride	10.0	9.786		mg/L		98	90 - 110	0	20
Sulfate	10.0	9.356		mg/L		94	90 - 110	1	20

Lab Sample ID: LLCS 860-111317/7					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 111317									
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	0.500	0.4691	J	mg/L		94	50 - 150		
Chloride	0.500	0.4740	J	mg/L		95	50 - 150		
Fluoride	0.500	0.2526	J	mg/L		51	50 - 150		
Sulfate	0.500	0.3947	J	mg/L		79	50 - 150		

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-111318/3

Matrix: Water

Analysis Batch: 111318

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/07/23 11:50	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/07/23 11:50	1

Lab Sample ID: MB 860-111318/52

Matrix: Water

Analysis Batch: 111318

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/07/23 23:29	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/07/23 23:29	1

Lab Sample ID: LCS 860-111318/53

Matrix: Water

Analysis Batch: 111318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.460		mg/L		95	80 - 120
Nitrite as N	10.0	9.727		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-111318/54

Matrix: Water

Analysis Batch: 111318

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
Nitrate as N	10.0	9.457		mg/L		95	80 - 120	0	20
Nitrite as N	10.0	9.761		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-111318/6

Matrix: Water

Analysis Batch: 111318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.08953	J	mg/L		90	50 - 150
Nitrite as N	0.100	0.07006	J	mg/L		70	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-111483/1-A

Matrix: Water

Analysis Batch: 111695

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 111483

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		07/10/23 09:30	07/10/23 13:48	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		07/10/23 09:30	07/10/23 13:48	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		07/10/23 09:30	07/10/23 13:48	1
Sodium	<0.152	U	0.500	0.152 mg/L		07/10/23 09:30	07/10/23 13:48	1
SiO2	<0.471	U	1.07	0.471 mg/L		07/10/23 09:30	07/10/23 13:48	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 860-111483/2-A
Matrix: Water
Analysis Batch: 111695

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 111483

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result				Qualifier	Limits
Calcium	25.0	23.80		mg/L		95	85 - 115
Magnesium	25.0	23.20		mg/L		93	85 - 115
Potassium	10.0	9.090		mg/L		91	85 - 115
Sodium	25.0	23.60		mg/L		94	85 - 115
SiO2	21.4	20.14		mg/L		94	85 - 115

Lab Sample ID: LCSD 860-111483/3-A
Matrix: Water
Analysis Batch: 111695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 111483

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Calcium	25.0	23.90		mg/L		96	85 - 115	0	20
Magnesium	25.0	23.30		mg/L		93	85 - 115	0	20
Potassium	10.0	9.170		mg/L		92	85 - 115	1	20
Sodium	25.0	23.70		mg/L		95	85 - 115	0	20
SiO2	21.4	20.27		mg/L		95	85 - 115	1	20

Lab Sample ID: LLCS 860-111483/4-A
Matrix: Water
Analysis Batch: 111695

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 111483

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier			Limits	
Calcium	0.200	0.2150		mg/L		108	50 - 150
Magnesium	0.200	0.2030		mg/L		102	50 - 150
Potassium	0.500	0.3180	J	mg/L		64	50 - 150
Sodium	0.500	0.3890	J	mg/L		78	50 - 150
SiO2	1.07	1.059	J	mg/L		99	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-111619/3
Matrix: Water
Analysis Batch: 111619

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

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/10/23 11:33	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/10/23 11:33	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/10/23 11:33	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/10/23 11:33	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/10/23 11:33	1

Lab Sample ID: LCS 860-111619/4
Matrix: Water
Analysis Batch: 111619

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier			Limits	
Alkalinity	250	253.5		mg/L		101	85 - 115

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-111619/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 111619											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity			250	258.9		mg/L		104	85 - 115	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-111278/1				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 111278											
Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed		Dil Fac	
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			07/07/23 09:09		1	

Lab Sample ID: LCS 860-111278/2				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 111278											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1007		mg/L		101	80 - 120		

Lab Sample ID: LCSD 860-111278/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 111278											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1008		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-111278/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 111278											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.500		mg/L		130	50 - 150		

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 111461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total/NA	Water	8260C	
MB 860-111461/10	Method Blank	Total/NA	Water	8260C	
LCS 860-111461/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-111461/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-30376-1 MS	Levey Well	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 111317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total/NA	Water	300.0	
MB 860-111317/3	Method Blank	Total/NA	Water	300.0	
MB 860-111317/52	Method Blank	Total/NA	Water	300.0	
LCS 860-111317/53	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-111317/54	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-111317/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 111318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total/NA	Water	300.0	
MB 860-111318/3	Method Blank	Total/NA	Water	300.0	
MB 860-111318/52	Method Blank	Total/NA	Water	300.0	
LCS 860-111318/53	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-111318/54	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-111318/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 111483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-111483/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-111483/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-111483/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-111483/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 111695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	111483
880-30376-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	111483
MB 860-111483/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	111483
LCS 860-111483/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	111483
LCSD 860-111483/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	111483
LLCS 860-111483/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	111483

General Chemistry

Analysis Batch: 111278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-111278/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-111278/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 111278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-111278/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-111278/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 111619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-111619/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-111619/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-111619/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 111625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 112752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30376-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-30376-1

Date Collected: 07/05/23 11:30

Matrix: Water

Date Received: 07/06/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	111461	AN	EET HOU	07/10/23 10:53
Total/NA	Analysis	300.0		1	111317	AK1	EET HOU	07/08/23 05:01
Total/NA	Analysis	300.0		1	111318	AK1	EET HOU	07/08/23 05:01
Total Recoverable	Prep	200.7			111483	MD	EET HOU	07/10/23 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	111695	JDM	EET HOU	07/10/23 14:34
Total Recoverable	Prep	200.7			111483	MD	EET HOU	07/10/23 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	111695	JDM	EET HOU	07/10/23 14:48
Total/NA	Analysis	SM 1030E		1	112752	SC	EET HOU	07/18/23 08:25
Total/NA	Analysis	SM 2320B		1	111619	TL	EET HOU	07/10/23 13:37
Total/NA	Analysis	SM 2540C		1	111278	OH	EET HOU	07/07/23 09:09
Total/NA	Analysis	SM 4500 H+ B		1	111625	TL	EET HOU	07/10/23 16:07

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
200.7 Rev 4.4	Metals (ICP)	EPA	EET HOU
SM 1030E	Cation Anion Balance	SM	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
200.7	Preparation, Total Recoverable Metals	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30376-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30376-1	Levey Well	Water	07/05/23 11:30	07/06/23 09:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Work Order No-

30374

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland TX (432-704-5440) El Paso TX (915)585-3443 Lubbock TX (806)794-1296
Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813) 973-3927
Hobbs NM (575-392-7550)

Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa FL (813-620-2000)

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Project Manager:	Beaux Jennings	Bill to, (if different)	
Company Name	Ensolum LLC	Company Name	
Address:	601 Merrenfeld #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 ☐ RRP ☐ Level IV ☐ Deliverables EDD ☐ ADAPT ☐ Other ☐	

Project Name	Levey Well	Hobbs NM	Turn Around
Project Number	03B1417001		Routine ☐
P.O. Number:	03B1417001		Rush 24 hr
Sampler's Name	Shane Diller		Due Date

SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice.	Yes	No
Temperature (°C).	17.9						
Received Intact	Yes	No			Thermometer ID	442	
Cooler Custody Seals.	Yes	No	NA		Correction Factor:	-0.5	
Sample Custody Seals	Yes	No	NA		Total Containers		

[illegible][illegible]

880-30376 Chain of Custody

[illegible]

Notice: Signature of this document and reimbursement of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco 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 Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless manifestly rebutted.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		7/16/23 0800			7/10/23
					0900

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)				Lab PM: Kramer Jessica E-Mail: Jessica.Kramer@eurofins.com State of Origin: New Mexico		Carrier Tracking No(s): 880-7398-1 Page: Page 1 of 1 Job #: 880-30376-1	
Company: Eurofins Environment Testing South Cent Address: 14145 Greenbriar Dr City: Stafford State, Zip: TX, 77477 Phone: 281-240-4200(Tel) Email: 				Accreditations Required (See note): NELAP Texas Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O ASNaO2 D Nitric Acid P Na2OAS 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-			
Due Date Requested: 7/1/2023 TAT Requested (days): 				Analysis Requested			
Project #: 88000024 SOW#: 				Field Filtered Sample (Yes or No) ☒			
				Perform MS/MSD (Yes or No) ☒			
Sample Date: 7/5/23 Sample Time: 11 30 Mountain				8260C/5030C (MOD) Full List VOCs ☒			
				200.7/200.7_P TR (MOD) Custom List ☒			
Sample Type (C=Comp, G=grab) 				300_ORGFM 28D/Br Cl, F, SO4 ☒			
				300_ORGFM/NO2, NO3 ☒			
Matrix (Monomer, Squalid, Overasphalt) Water				SM4500_H+ pH ☒			
				2540C_Calcd/ TDS ☒			
Preservation Code: 				2320B/ Alkalinity ☒			
				Calcon_Antoni (MOD) Copy Analytes ☒			
Total Number of containers: 7				Special Instructions/Note:			

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/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 charges 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 Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank. 2			
Empty Kit Relinquished by:		Date: 	
Relinquished by:		Date/Time: 	
Relinquished by: FedEX		Date/Time: 	
Relinquished by: 		Date/Time: 	

Special Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months	
Special Instructions/QC Requirements.	
Method of Shipment: FedEX	
Received by:	Date/Time:
Received by: 	Date/Time: 7/7/2023 9:28
Received by: 	Date/Time:

Custody Seals Intact: 	Custody Seal No.
Cooler Temperature(s) °C and Other Remarks:	Temp: 15 IR ID: HOU-3 C/F: 0.3

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-30376-1

SDG Number: Hobbs NM

Login Number: 30376

List Number: 1

Creator: Teel, Brianna

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: 880-30376-1

SDG Number: Hobbs NM

Login Number: 30376

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 07/07/23 03:04 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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 7/23/2023 9:08:13 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

880-30755-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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
7/23/2023 9:08:13 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-30755-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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)

Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Job ID: 880-30755-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-30755-1**

Receipt

The sample was received on 7/14/2023 12:38 PM. 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 2.6°C

GC/MS VOA

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-112581 were outside control limits for Vinyl chloride. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-112581 recovered above the upper control limit for p-Cymene (p-Isopropyltoluene). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-112581/2).

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

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-112646 contained Sulfate greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFMS: The following sample was received outside of holding time: Levey Well (880-30755-1).

Method 300_ORGFMS: The matrix spike duplicate (MSD) recoveries for analytical batch 860-112647 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

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

Metals

Method 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-112491 and analytical batch 860-112619 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-30755-1

Date Collected: 07/13/23 12:50

Matrix: Water

Date Received: 07/14/23 12:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00365		0.00100	0.000460	mg/L		07/17/23 16:28	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		07/17/23 16:28	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		07/17/23 16:28	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		07/17/23 16:28	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		07/17/23 16:28	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		07/17/23 16:28	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		07/17/23 16:28	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		07/17/23 16:28	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		07/17/23 16:28	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		07/17/23 16:28	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		07/17/23 16:28	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		07/17/23 16:28	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		07/17/23 16:28	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		07/17/23 16:28	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		07/17/23 16:28	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		07/17/23 16:28	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		07/17/23 16:28	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		07/17/23 16:28	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		07/17/23 16:28	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		07/17/23 16:28	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/17/23 16:28	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/17/23 16:28	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		07/17/23 16:28	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		07/17/23 16:28	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		07/17/23 16:28	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		07/17/23 16:28	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		07/17/23 16:28	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		07/17/23 16:28	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		07/17/23 16:28	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		07/17/23 16:28	1
Ethylbenzene	0.0125		0.00100	0.000411	mg/L		07/17/23 16:28	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		07/17/23 16:28	1
Isopropylbenzene	0.00586		0.00100	0.000613	mg/L		07/17/23 16:28	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		07/17/23 16:28	1
m,p-Xylenes	0.0540		0.0100	0.00124	mg/L		07/17/23 16:28	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		07/17/23 16:28	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		07/17/23 16:28	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		07/17/23 16:28	1
N-Propylbenzene	0.00252		0.00100	0.000498	mg/L		07/17/23 16:28	1
o-Xylene	0.00796		0.00100	0.000551	mg/L		07/17/23 16:28	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		07/17/23 16:28	1
sec-Butylbenzene	0.00102		0.00100	0.000468	mg/L		07/17/23 16:28	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		07/17/23 16:28	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		07/17/23 16:28	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		07/17/23 16:28	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		07/17/23 16:28	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		07/17/23 16:28	1
Toluene	0.0239		0.00100	0.000475	mg/L		07/17/23 16:28	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		07/17/23 16:28	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-30755-1
Date Collected: 07/13/23 12:50 Matrix: Water
Date Received: 07/14/23 12:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/17/23 16:28	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/17/23 16:28	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/17/23 16:28	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/17/23 16:28	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/17/23 16:28	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/17/23 16:28	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/17/23 16:28	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/17/23 16:28	1
1,2,4-Trimethylbenzene	0.0123		0.00100	0.000417 mg/L			07/17/23 16:28	1
1,3,5-Trimethylbenzene	0.00368		0.00100	0.000456 mg/L			07/17/23 16:28	1
Vinyl chloride	<0.000638	U F1	0.00200	0.000638 mg/L			07/17/23 16:28	1
Xylenes, Total	0.0620		0.0100	0.00124 mg/L			07/17/23 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124				07/17/23 16:28	1
Dibromofluoromethane (Surr)	101		75 - 131				07/17/23 16:28	1
1,2-Dichloroethane-d4 (Surr)	96		63 - 144				07/17/23 16:28	1
Toluene-d8 (Surr)	99		80 - 120				07/17/23 16:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.312	J	0.500	0.0711 mg/L			07/15/23 21:03	1
Nitrate as N	0.0979	J H	0.100	0.0391 mg/L			07/15/23 21:03	1
Chloride	221		0.500	0.250 mg/L			07/15/23 21:03	1
Nitrite as N	2.07	H	0.100	0.0293 mg/L			07/15/23 21:03	1
Fluoride	0.221	J	0.500	0.100 mg/L			07/15/23 21:03	1
Sulfate	48.1		0.500	0.200 mg/L			07/15/23 21:03	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		10.0	5.76 mg/L		07/16/23 11:30	07/17/23 10:50	50
Magnesium	44.0		0.200	0.0428 mg/L		07/16/23 11:30	07/17/23 10:32	1
Potassium	3.62		0.500	0.0914 mg/L		07/16/23 11:30	07/17/23 10:32	1
Sodium	71.0	F1	0.500	0.152 mg/L		07/16/23 11:30	07/17/23 10:32	1
SiO2	57.8		1.07	0.471 mg/L		07/16/23 11:30	07/17/23 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-8.50			%			07/18/23 08:25	1
Alkalinity (SM 2320B)	707		4.00	4.00 mg/L			07/17/23 13:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	707		4.00	4.00 mg/L			07/17/23 13:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/17/23 13:45	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/17/23 13:45	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/17/23 13:45	1
Total Dissolved Solids (SM 2540C)	1360		10.0	10.0 mg/L			07/17/23 10:01	1
pH (SM 4500 H+ B)	6.5	HF		SU			07/17/23 17:28	1
Temperature (SM 4500 H+ B)	21.7	HF		Degrees C			07/17/23 17:28	1

Eurofins Midland

Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-120)
880-30755-1	Levey Well	102	101	96	99
880-30755-1 MS	Levey Well	106	97	95	97
LCS 860-112581/3	Lab Control Sample	99	96	94	97
LCSD 860-112581/4	Lab Control Sample Dup	103	93	96	99
MB 860-112581/12	Method Blank	104	95	105	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-112581/12

Matrix: Water

Analysis Batch: 112581

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/17/23 14:53	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/17/23 14:53	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/17/23 14:53	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/17/23 14:53	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/17/23 14:53	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/17/23 14:53	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/17/23 14:53	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/17/23 14:53	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/17/23 14:53	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/17/23 14:53	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/17/23 14:53	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/17/23 14:53	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/17/23 14:53	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/17/23 14:53	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/17/23 14:53	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/17/23 14:53	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/17/23 14:53	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/17/23 14:53	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/17/23 14:53	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/17/23 14:53	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/17/23 14:53	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/17/23 14:53	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/17/23 14:53	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/17/23 14:53	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/17/23 14:53	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/17/23 14:53	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/17/23 14:53	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/17/23 14:53	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/17/23 14:53	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/17/23 14:53	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/17/23 14:53	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/17/23 14:53	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/17/23 14:53	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/17/23 14:53	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/17/23 14:53	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/17/23 14:53	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/17/23 14:53	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/17/23 14:53	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/17/23 14:53	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/17/23 14:53	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/17/23 14:53	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/17/23 14:53	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/17/23 14:53	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/17/23 14:53	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/17/23 14:53	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/17/23 14:53	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/17/23 14:53	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/17/23 14:53	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-112581/12

Matrix: Water

Analysis Batch: 112581

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/17/23 14:53	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/17/23 14:53	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/17/23 14:53	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/17/23 14:53	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/17/23 14:53	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/17/23 14:53	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/17/23 14:53	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/17/23 14:53	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/17/23 14:53	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/17/23 14:53	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/17/23 14:53	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/17/23 14:53	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/17/23 14:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		07/17/23 14:53	1
Dibromofluoromethane (Surr)	95		75 - 131		07/17/23 14:53	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		07/17/23 14:53	1
Toluene-d8 (Surr)	101		80 - 120		07/17/23 14:53	1

Lab Sample ID: LCS 860-112581/3

Matrix: Water

Analysis Batch: 112581

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	0.05419		mg/L		108	75 - 125
Bromobenzene	0.0500	0.05291		mg/L		106	75 - 125
Bromochloromethane	0.0500	0.05701		mg/L		114	60 - 140
Bromodichloromethane	0.0500	0.05711		mg/L		114	75 - 125
Bromoform	0.0500	0.05480		mg/L		110	70 - 130
Bromomethane	0.0500	0.04385		mg/L		88	60 - 140
2-Butanone	0.250	0.2465		mg/L		99	60 - 140
Carbon tetrachloride	0.0500	0.04714		mg/L		94	70 - 130
Chlorobenzene	0.0500	0.05366		mg/L		107	65 - 135
Chloroethane	0.0500	0.04523		mg/L		90	60 - 140
Chloroform	0.0500	0.05440		mg/L		109	70 - 121
Chloromethane	0.0500	0.04220		mg/L		84	60 - 140
2-Chlorotoluene	0.0500	0.05482		mg/L		110	73 - 125
4-Chlorotoluene	0.0500	0.05448		mg/L		109	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05321		mg/L		106	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05796		mg/L		116	74 - 125
Dibromochloromethane	0.0500	0.05465		mg/L		109	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04111		mg/L		82	59 - 125
1,2-Dibromoethane	0.0500	0.05429		mg/L		109	73 - 125
1,2-Dichlorobenzene	0.0500	0.05194		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05720		mg/L		114	75 - 125
1,4-Dichlorobenzene	0.0500	0.05289		mg/L		106	75 - 125
Dichlorodifluoromethane	0.0500	0.04452		mg/L		89	50 - 150

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-112581/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 112581							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.05440		mg/L		109	70 - 130
1,2-Dichloroethane	0.0500	0.05304		mg/L		106	72 - 130
1,1-Dichloroethene	0.0500	0.04831		mg/L		97	50 - 150
1,2-Dichloropropane	0.0500	0.05766		mg/L		115	74 - 125
1,3-Dichloropropane	0.0500	0.05372		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.05718		mg/L		114	75 - 125
1,1-Dichloropropene	0.0500	0.05054		mg/L		101	75 - 125
Ethylbenzene	0.0500	0.05664		mg/L		113	75 - 125
Hexachlorobutadiene	0.0500	0.05491		mg/L		110	75 - 125
Isopropylbenzene	0.0500	0.05868		mg/L		117	75 - 125
Methylene Chloride	0.0500	0.04579		mg/L		92	71 - 125
m,p-Xylenes	0.0500	0.05716		mg/L		114	75 - 125
MTBE	0.0500	0.05263		mg/L		105	65 - 135
Naphthalene	0.0500	0.04812		mg/L		96	70 - 130
n-Butylbenzene	0.0500	0.05498		mg/L		110	75 - 125
N-Propylbenzene	0.0500	0.05452		mg/L		109	75 - 125
o-Xylene	0.0500	0.05827		mg/L		117	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05718		mg/L		114	75 - 125
sec-Butylbenzene	0.0500	0.05540		mg/L		111	75 - 125
Styrene	0.0500	0.05954		mg/L		119	75 - 125
tert-Butylbenzene	0.0500	0.05552		mg/L		111	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05694		mg/L		114	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04894		mg/L		98	74 - 125
Tetrachloroethene	0.0500	0.05645		mg/L		113	71 - 125
Toluene	0.0500	0.05351		mg/L		107	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05058		mg/L		101	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05933		mg/L		119	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04743		mg/L		95	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05176		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05180		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.05356		mg/L		107	70 - 130
Trichloroethene	0.0500	0.05593		mg/L		112	75 - 135
Trichlorofluoromethane	0.0500	0.05129		mg/L		103	60 - 140
1,2,3-Trichloropropane	0.0500	0.04766		mg/L		95	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05440		mg/L		109	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05261		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.04908		mg/L		98	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	99		74 - 124				
Dibromofluoromethane (Surr)	96		75 - 131				
1,2-Dichloroethane-d4 (Surr)	94		63 - 144				
Toluene-d8 (Surr)	97		80 - 120				

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-112581/4

Matrix: Water

Analysis Batch: 112581

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	0.05204		mg/L		104	75 - 125	4	25
Bromobenzene	0.0500	0.05516		mg/L		110	75 - 125	4	25
Bromochloromethane	0.0500	0.05193		mg/L		104	60 - 140	9	25
Bromodichloromethane	0.0500	0.05735		mg/L		115	75 - 125	0	25
Bromoform	0.0500	0.05582		mg/L		112	70 - 130	2	25
Bromomethane	0.0500	0.04063		mg/L		81	60 - 140	8	25
2-Butanone	0.250	0.2124		mg/L		85	60 - 140	15	25
Carbon tetrachloride	0.0500	0.05409		mg/L		108	70 - 130	14	25
Chlorobenzene	0.0500	0.05507		mg/L		110	65 - 135	3	25
Chloroethane	0.0500	0.04905		mg/L		98	60 - 140	8	25
Chloroform	0.0500	0.05340		mg/L		107	70 - 121	2	25
Chloromethane	0.0500	0.04255		mg/L		85	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05753		mg/L		115	73 - 125	5	25
4-Chlorotoluene	0.0500	0.05668		mg/L		113	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05290		mg/L		106	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05847		mg/L		117	74 - 125	1	25
Dibromochloromethane	0.0500	0.05628		mg/L		113	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04319		mg/L		86	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.05333		mg/L		107	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05600		mg/L		112	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.05718		mg/L		114	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05498		mg/L		110	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.04170		mg/L		83	50 - 150	7	25
1,1-Dichloroethane	0.0500	0.05353		mg/L		107	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.05415		mg/L		108	72 - 130	2	25
1,1-Dichloroethene	0.0500	0.04959		mg/L		99	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.05603		mg/L		112	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05404		mg/L		108	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05907		mg/L		118	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04956		mg/L		99	75 - 125	2	25
Ethylbenzene	0.0500	0.05785		mg/L		116	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.06126		mg/L		123	75 - 125	11	25
Isopropylbenzene	0.0500	0.05990		mg/L		120	75 - 125	2	25
Methylene Chloride	0.0500	0.04504		mg/L		90	71 - 125	2	25
m,p-Xylenes	0.0500	0.05841		mg/L		117	75 - 125	2	25
MTBE	0.0500	0.04947		mg/L		99	65 - 135	6	25
Naphthalene	0.0500	0.05120		mg/L		102	70 - 130	6	25
n-Butylbenzene	0.0500	0.05976		mg/L		120	75 - 125	8	25
N-Propylbenzene	0.0500	0.05717		mg/L		114	75 - 125	5	25
o-Xylene	0.0500	0.05856		mg/L		117	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.06180		mg/L		124	75 - 125	8	25
sec-Butylbenzene	0.0500	0.05959		mg/L		119	75 - 125	7	25
Styrene	0.0500	0.05958		mg/L		119	75 - 125	0	25
tert-Butylbenzene	0.0500	0.06040		mg/L		121	75 - 125	8	25
1,1,1,2-Tetrachloroethane	0.0500	0.05719		mg/L		114	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.05038		mg/L		101	74 - 125	3	25
Tetrachloroethene	0.0500	0.06006		mg/L		120	71 - 125	6	25
Toluene	0.0500	0.05481		mg/L		110	70 - 130	2	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-112581/4

Matrix: Water

Analysis Batch: 112581

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
trans-1,2-Dichloroethene	0.0500	0.04885		mg/L		98	75 - 125	3	25
trans-1,3-Dichloropropene	0.0500	0.05820		mg/L		116	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.05349		mg/L		107	75 - 137	12	25
1,2,4-Trichlorobenzene	0.0500	0.05657		mg/L		113	75 - 135	9	25
1,1,1-Trichloroethane	0.0500	0.04987		mg/L		100	70 - 130	4	25
1,1,2-Trichloroethane	0.0500	0.05280		mg/L		106	70 - 130	1	25
Trichloroethene	0.0500	0.05523		mg/L		110	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.05890		mg/L		118	60 - 140	14	25
1,2,3-Trichloropropane	0.0500	0.05057		mg/L		101	75 - 125	6	25
1,2,4-Trimethylbenzene	0.0500	0.05766		mg/L		115	75 - 125	6	25
1,3,5-Trimethylbenzene	0.0500	0.05684		mg/L		114	60 - 140	8	25
Vinyl chloride	0.0500	0.04700		mg/L		94	60 - 140	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	93		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 880-30755-1 MS

Matrix: Water

Analysis Batch: 112581

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00365		0.0500	0.05750		mg/L		108	66 - 142
Bromobenzene	<0.000665	U	0.0500	0.05754		mg/L		115	75 - 125
Bromochloromethane	<0.000657	U	0.0500	0.05631		mg/L		113	60 - 140
Bromodichloromethane	<0.000552	U	0.0500	0.05793		mg/L		116	75 - 125
Bromoform	<0.000633	U	0.0500	0.05503		mg/L		110	75 - 125
Bromomethane	<0.00142	U	0.0500	0.03731		mg/L		75	60 - 140
2-Butanone	<0.00828	U	0.250	0.2245		mg/L		90	60 - 140
Carbon tetrachloride	<0.000896	U	0.0500	0.04518		mg/L		90	62 - 125
Chlorobenzene	<0.000530	U	0.0500	0.05440		mg/L		109	60 - 133
Chloroethane	<0.00198	U	0.0500	0.03790		mg/L		76	60 - 140
Chloroform	<0.000643	U	0.0500	0.05436		mg/L		109	70 - 130
Chloromethane	<0.00204	U	0.0500	0.04201		mg/L		84	60 - 140
2-Chlorotoluene	<0.00118	U	0.0500	0.05924		mg/L		118	73 - 125
4-Chlorotoluene	<0.000472	U	0.0500	0.05882		mg/L		118	74 - 125
cis-1,2-Dichloroethene	<0.000714	U	0.0500	0.05484		mg/L		110	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	0.0500	0.05901		mg/L		118	74 - 125
Dibromochloromethane	<0.000547	U	0.0500	0.05683		mg/L		114	73 - 125
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.0500	0.04562		mg/L		91	59 - 125
1,2-Dibromoethane	<0.000999	U	0.0500	0.05431		mg/L		109	73 - 125
1,2-Dichlorobenzene	<0.000509	U	0.0500	0.05880		mg/L		118	75 - 125
1,3-Dichlorobenzene	<0.000513	U	0.0500	0.05703		mg/L		114	75 - 125
1,4-Dichlorobenzene	<0.000513	U	0.0500	0.05635		mg/L		113	75 - 125
Dichlorodifluoromethane	<0.000919	U	0.0500	0.03743		mg/L		75	70 - 130
1,1-Dichloroethane	<0.000635	U	0.0500	0.05520		mg/L		110	72 - 125

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

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

Lab Sample ID: 880-30755-1 MS					Client Sample ID: Levey Well						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 112581											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,2-Dichloroethane	<0.000590	U	0.0500	0.05414		mg/L		108	68 - 127		
1,1-Dichloroethene	<0.000738	U	0.0500	0.04954		mg/L		99	59 - 172		
1,2-Dichloropropane	<0.000667	U	0.0500	0.05644		mg/L		113	74 - 125		
1,3-Dichloropropane	<0.000514	U	0.0500	0.05441		mg/L		109	75 - 125		
2,2-Dichloropropane	<0.000780	U	0.0500	0.05740		mg/L		115	75 - 125		
1,1-Dichloropropene	<0.00160	U	0.0500	0.05244		mg/L		105	75 - 125		
Ethylbenzene	0.0125		0.0500	0.07011		mg/L		115	75 - 125		
Hexachlorobutadiene	<0.00126	U	0.0500	0.05707		mg/L		114	75 - 125		
Isopropylbenzene	0.00586		0.0500	0.06581		mg/L		120	75 - 125		
Methylene Chloride	<0.00173	U	0.0500	0.04783		mg/L		96	75 - 125		
m,p-Xylenes	0.0540		0.0500	0.1111		mg/L		114	75 - 125		
MTBE	<0.00139	U	0.0500	0.05338		mg/L		107	65 - 135		
Naphthalene	<0.00135	U	0.0500	0.05424		mg/L		108	70 - 130		
n-Butylbenzene	<0.000644	U	0.0500	0.05868		mg/L		117	75 - 125		
N-Propylbenzene	0.00252		0.0500	0.06081		mg/L		117	75 - 125		
o-Xylene	0.00796		0.0500	0.06768		mg/L		119	75 - 125		
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.0500	0.06231		mg/L		125	75 - 125		
sec-Butylbenzene	0.00102		0.0500	0.05974		mg/L		117	75 - 125		
Styrene	<0.000655	U	0.0500	0.05996		mg/L		120	75 - 125		
tert-Butylbenzene	<0.000442	U	0.0500	0.06104		mg/L		122	75 - 125		
1,1,1,2-Tetrachloroethane	<0.000644	U	0.0500	0.05713		mg/L		114	72 - 125		
1,1,2,2-Tetrachloroethane	<0.000470	U	0.0500	0.05138		mg/L		103	74 - 125		
Tetrachloroethene	<0.000801	U	0.0500	0.05891		mg/L		118	71 - 125		
Toluene	0.0239		0.0500	0.07771		mg/L		108	59 - 139		
trans-1,2-Dichloroethene	<0.000945	U	0.0500	0.05177		mg/L		104	75 - 125		
trans-1,3-Dichloropropene	<0.00127	U	0.0500	0.06016		mg/L		120	66 - 125		
1,2,3-Trichlorobenzene	<0.00217	U	0.0500	0.05484		mg/L		110	75 - 137		
1,2,4-Trichlorobenzene	<0.00175	U	0.0500	0.05725		mg/L		115	75 - 135		
1,1,1-Trichloroethane	<0.00169	U	0.0500	0.05286		mg/L		106	75 - 125		
1,1,2-Trichloroethane	<0.000511	U	0.0500	0.05365		mg/L		107	75 - 127		
Trichloroethene	<0.000791	U	0.0500	0.05735		mg/L		115	62 - 137		
Trichlorofluoromethane	<0.000638	U	0.0500	0.05233		mg/L		105	60 - 140		
1,2,3-Trichloropropane	<0.000490	U	0.0500	0.05211		mg/L		104	75 - 125		
1,2,4-Trimethylbenzene	0.0123		0.0500	0.07159		mg/L		119	75 - 125		
1,3,5-Trimethylbenzene	0.00368		0.0500	0.06086		mg/L		114	70 - 125		
Vinyl chloride	<0.000638	U F1	0.0500	0.02957	F1	mg/L		59	60 - 140		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		74 - 124								
Dibromofluoromethane (Surr)	97		75 - 131								
1,2-Dichloroethane-d4 (Surr)	95		63 - 144								
Toluene-d8 (Surr)	97		80 - 120								

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-112646/3

Matrix: Water

Analysis Batch: 112646

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711 mg/L			07/15/23 20:23	1
Chloride	<0.250	U	0.500	0.250 mg/L			07/15/23 20:23	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/15/23 20:23	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/15/23 20:23	1

Lab Sample ID: LCS 860-112646/4

Matrix: Water

Analysis Batch: 112646

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	9.621		mg/L		96	90 - 110
Chloride	10.0	9.713		mg/L		97	90 - 110
Fluoride	10.0	10.18		mg/L		102	90 - 110
Sulfate	10.0	9.367		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-112646/5

Matrix: Water

Analysis Batch: 112646

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
Bromide	10.0	9.652		mg/L		97	90 - 110	0	20
Chloride	10.0	9.729		mg/L		97	90 - 110	0	20
Fluoride	10.0	10.20		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.359		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 860-112646/7

Matrix: Water

Analysis Batch: 112646

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.500	0.4291	J	mg/L		86	50 - 150
Chloride	0.500	0.4439	J	mg/L		89	50 - 150
Fluoride	0.500	0.3233	J	mg/L		65	50 - 150
Sulfate	0.500	0.3245	J	mg/L		65	50 - 150

Lab Sample ID: MB 860-112647/3

Matrix: Water

Analysis Batch: 112647

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/15/23 20:23	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/15/23 20:23	1

Lab Sample ID: LCS 860-112647/4

Matrix: Water

Analysis Batch: 112647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.901		mg/L		99	80 - 120
Nitrite as N	10.0	9.674		mg/L		97	80 - 120

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 860-112647/5				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 112647										
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Nitrate as N	10.0	9.906		mg/L		99	80 - 120	0	20	
Nitrite as N	10.0	9.746		mg/L		97	80 - 120	1	20	

Lab Sample ID: LLCS 860-112647/6				Client Sample ID: Lab Control Sample						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 112647										
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits			
Nitrate as N	0.100	0.05814	J	mg/L		58	50 - 150			
Nitrite as N	0.100	0.05321	J	mg/L		53	50 - 150			

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-112491/1-A				Client Sample ID: Method Blank						
Matrix: Water				Prep Type: Total Recoverable						
Analysis Batch: 112619				Prep Batch: 112491						
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Calcium	<0.115	U	0.200	0.115 mg/L		07/16/23 11:30	07/17/23 10:22	1		
Magnesium	<0.0428	U	0.200	0.0428 mg/L		07/16/23 11:30	07/17/23 10:22	1		
Potassium	<0.0914	U	0.500	0.0914 mg/L		07/16/23 11:30	07/17/23 10:22	1		
Sodium	<0.152	U	0.500	0.152 mg/L		07/16/23 11:30	07/17/23 10:22	1		
SiO2	<0.471	U	1.07	0.471 mg/L		07/16/23 11:30	07/17/23 10:22	1		

Lab Sample ID: LCS 860-112491/2-A				Client Sample ID: Lab Control Sample						
Matrix: Water				Prep Type: Total Recoverable						
Analysis Batch: 112619				Prep Batch: 112491						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Calcium	25.0	22.10		mg/L		88	85 - 115			
Magnesium	25.0	21.90		mg/L		88	85 - 115			
Potassium	10.0	8.880		mg/L		89	85 - 115			
Sodium	25.0	22.00		mg/L		88	85 - 115			
SiO2	21.4	19.32		mg/L		90	85 - 115			

Lab Sample ID: LCSD 860-112491/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total Recoverable						
Analysis Batch: 112619				Prep Batch: 112491						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Calcium	25.0	22.30		mg/L		89	85 - 115	1	20	
Magnesium	25.0	22.10		mg/L		88	85 - 115	1	20	
Potassium	10.0	8.920		mg/L		89	85 - 115	0	20	
Sodium	25.0	22.20		mg/L		89	85 - 115	1	20	
SiO2	21.4	19.32		mg/L		90	85 - 115	0	20	

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LLCS 860-112491/4-A

Matrix: Water

Analysis Batch: 112619

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 112491

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	0.200	0.2260		mg/L		113	50 - 150	
Magnesium	0.200	0.2420		mg/L		121	50 - 150	
Potassium	0.500	0.3840	J	mg/L		77	50 - 150	
Sodium	0.500	0.3640	J	mg/L		73	50 - 150	
SiO2	1.07	0.9823	J	mg/L		92	50 - 150	

Lab Sample ID: 880-30755-1 MS

Matrix: Water

Analysis Batch: 112619

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 112491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Calcium	219	E	25.0	228.0	E 4	mg/L		36	70 - 130	
Magnesium	44.0		25.0	61.60		mg/L		70	70 - 130	
Potassium	3.62		10.0	11.90		mg/L		83	70 - 130	
Sodium	71.0	F1	25.0	87.90	F1	mg/L		68	70 - 130	
SiO2	57.8		21.4	73.19		mg/L		72	70 - 130	

Lab Sample ID: 880-30755-1 MSD

Matrix: Water

Analysis Batch: 112619

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 112491

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
Calcium	219	E	25.0	228.0	E 4	mg/L		36	70 - 130		0	20
Magnesium	44.0		25.0	61.70		mg/L		71	70 - 130		0	20
Potassium	3.62		10.0	12.00		mg/L		84	70 - 130		1	20
Sodium	71.0	F1	25.0	87.60	F1	mg/L		66	70 - 130		0	20
SiO2	57.8		21.4	73.19		mg/L		72	70 - 130		0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-112677/3

Matrix: Water

Analysis Batch: 112677

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/17/23 11:29	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/17/23 11:29	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/17/23 11:29	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/17/23 11:29	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/17/23 11:29	1

Lab Sample ID: LCS 860-112677/4

Matrix: Water

Analysis Batch: 112677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Alkalinity	250	257.0		mg/L		103	85 - 115	

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-112677/5
Matrix: Water
Analysis Batch: 112677

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
Alkalinity	250	250.3		mg/L		100	85 - 115	3	20

Lab Sample ID: 880-30755-1 DU
Matrix: Water
Analysis Batch: 112677

Client Sample ID: Levey Well
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	707		690.8		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	707		690.8		mg/L		2	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-112571/1
Matrix: Water
Analysis Batch: 112571

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			07/17/23 10:01	1

Lab Sample ID: LCS 860-112571/2
Matrix: Water
Analysis Batch: 112571

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1009		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-112571/3
Matrix: Water
Analysis Batch: 112571

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
Total Dissolved Solids	1000	1007		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-112571/4
Matrix: Water
Analysis Batch: 112571

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	5.000		mg/L		100	50 - 150

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 112581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total/NA	Water	8260C	
MB 860-112581/12	Method Blank	Total/NA	Water	8260C	
LCS 860-112581/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-112581/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-30755-1 MS	Levey Well	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 112646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total/NA	Water	300.0	
MB 860-112646/3	Method Blank	Total/NA	Water	300.0	
LCS 860-112646/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112646/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112646/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 112647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total/NA	Water	300.0	
MB 860-112647/3	Method Blank	Total/NA	Water	300.0	
LCS 860-112647/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112647/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112647/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 112491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-112491/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-112491/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-112491/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-112491/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-30755-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-30755-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 112619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	112491
880-30755-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	112491
MB 860-112491/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	112491
LCS 860-112491/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	112491
LCSD 860-112491/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	112491
LLCS 860-112491/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	112491
880-30755-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	112491
880-30755-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	112491

General Chemistry

Analysis Batch: 112571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 112571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-112571/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-112571/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-112571/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-112571/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 112677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-112677/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-112677/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-112677/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-30755-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Analysis Batch: 112711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 112752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30755-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-30755-1

Date Collected: 07/13/23 12:50

Matrix: Water

Date Received: 07/14/23 12:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	112581	AN	EET HOU	07/17/23 16:28
Total/NA	Analysis	300.0		1	112646	RBNS	EET HOU	07/15/23 21:03
Total/NA	Analysis	300.0		1	112647	RBNS	EET HOU	07/15/23 21:03
Total Recoverable	Prep	200.7			112491	MD	EET HOU	07/16/23 11:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	112619	JDM	EET HOU	07/17/23 10:32
Total Recoverable	Prep	200.7			112491	MD	EET HOU	07/16/23 11:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	112619	JDM	EET HOU	07/17/23 10:50
Total/NA	Analysis	SM 1030E		1	112752	SC	EET HOU	07/18/23 08:25
Total/NA	Analysis	SM 2320B		1	112677	TL	EET HOU	07/17/23 13:45
Total/NA	Analysis	SM 2540C		1	112571	OH	EET HOU	07/17/23 10:01
Total/NA	Analysis	SM 4500 H+ B		1	112711	TL	EET HOU	07/17/23 17:28

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
200.7 Rev 4.4	Metals (ICP)	EPA	EET HOU
SM 1030E	Cation Anion Balance	SM	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
200.7	Preparation, Total Recoverable Metals	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30755-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30755-1	Levey Well	Water	07/13/23 12:50	07/14/23 12:38

- 1
- 2
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- 9
- 10
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- 12
- 13
- 14



Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 508-3334
Midland TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-988-3922)
Hobbs NM (575-392-7550)

Chain of Custody

Work Order No. 26755

Page 1 of 1

Project Manager:		Beaux Jennings		Bill to, (if different)		
Company Name:		Ensolum LLC		Company Name		
Address		601 Merenfeld #400		Address		
City, State ZIP		Midland TX 79701		City, State ZIP		
Phone		432-230-3344		Email		bjenings@ensolum.com

110005 11/01/2007 11:00:10 AM TX 79701-4498 1ampa FL (813-620-2000)

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

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-30755-1

SDG Number: Hobbs NM

Login Number: 30755

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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: 880-30755-1
SDG Number: Hobbs NM

Login Number: 30755
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 07/15/23 01:51 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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 7/23/2023 9:08:13 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

880-30810-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-30810-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

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.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
α	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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Job ID: 880-30810-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-30810-1**

Receipt

The sample was received on 7/17/2023 3:44 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-112895 recovered above the upper control limit for p-Cymene (p-Isopropyltoluene), Bromobenzene, Tetrachloroethylene, tert-Butylbenzene, and Methyl acetate, . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-112895/2).

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-112895 recovered outside acceptance criteria, low biased, for Bromomethane, Chloroethane, and Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-112895 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFMS: The matrix spike duplicate (MSD) recoveries for analytical batch 860-112822 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

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

Metals

Method 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-113021 and analytical batch 860-113196 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 200.7: Due to the high concentration of Calcium, Magnesium and Sodium the matrix spike (MS) for preparation batch 860-113021 and analytical batch 860-113196 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-30810-1

Date Collected: 07/17/23 12:20

Matrix: Water

Date Received: 07/17/23 15:44

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00238		0.00100	0.000460	mg/L		07/19/23 05:11	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		07/19/23 05:11	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		07/19/23 05:11	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		07/19/23 05:11	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		07/19/23 05:11	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		07/19/23 05:11	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		07/19/23 05:11	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		07/19/23 05:11	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		07/19/23 05:11	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		07/19/23 05:11	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		07/19/23 05:11	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		07/19/23 05:11	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		07/19/23 05:11	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		07/19/23 05:11	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		07/19/23 05:11	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		07/19/23 05:11	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		07/19/23 05:11	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		07/19/23 05:11	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		07/19/23 05:11	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		07/19/23 05:11	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/19/23 05:11	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/19/23 05:11	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		07/19/23 05:11	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		07/19/23 05:11	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		07/19/23 05:11	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		07/19/23 05:11	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		07/19/23 05:11	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		07/19/23 05:11	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		07/19/23 05:11	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		07/19/23 05:11	1
Ethylbenzene	0.0103		0.00100	0.000411	mg/L		07/19/23 05:11	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		07/19/23 05:11	1
Isopropylbenzene	0.00484		0.00100	0.000613	mg/L		07/19/23 05:11	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		07/19/23 05:11	1
m,p-Xylenes	0.0431		0.0100	0.00124	mg/L		07/19/23 05:11	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		07/19/23 05:11	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		07/19/23 05:11	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		07/19/23 05:11	1
N-Propylbenzene	0.00222		0.00100	0.000498	mg/L		07/19/23 05:11	1
o-Xylene	0.00646		0.00100	0.000551	mg/L		07/19/23 05:11	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		07/19/23 05:11	1
sec-Butylbenzene	0.000987	J	0.00100	0.000468	mg/L		07/19/23 05:11	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		07/19/23 05:11	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		07/19/23 05:11	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		07/19/23 05:11	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		07/19/23 05:11	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		07/19/23 05:11	1
Toluene	0.0198		0.00100	0.000475	mg/L		07/19/23 05:11	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		07/19/23 05:11	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-30810-1
Date Collected: 07/17/23 12:20 Matrix: Water
Date Received: 07/17/23 15:44

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/19/23 05:11	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/19/23 05:11	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/19/23 05:11	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/19/23 05:11	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/19/23 05:11	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/19/23 05:11	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/19/23 05:11	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/19/23 05:11	1
1,2,4-Trimethylbenzene	0.0102		0.00100	0.000417 mg/L			07/19/23 05:11	1
1,3,5-Trimethylbenzene	0.00307		0.00100	0.000456 mg/L			07/19/23 05:11	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/19/23 05:11	1
Xylenes, Total	0.0496		0.0100	0.00124 mg/L			07/19/23 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		74 - 124				07/19/23 05:11	1
Dibromofluoromethane (Surr)	88		75 - 131				07/19/23 05:11	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 144				07/19/23 05:11	1
Toluene-d8 (Surr)	101		80 - 120				07/19/23 05:11	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.326	J	0.500	0.0711 mg/L			07/18/23 20:21	1
Nitrate as N	0.0682	J	0.100	0.0391 mg/L			07/18/23 20:21	1
Chloride	224		0.500	0.250 mg/L			07/18/23 20:21	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/18/23 20:21	1
Fluoride	0.145	J	0.500	0.100 mg/L			07/18/23 20:21	1
Sulfate	47.5		0.500	0.200 mg/L			07/18/23 20:21	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	185		10.0	5.76 mg/L		07/19/23 11:27	07/19/23 22:34	50
Magnesium	38.1		0.200	0.0428 mg/L		07/19/23 11:27	07/19/23 22:16	1
Potassium	3.13		0.500	0.0914 mg/L		07/19/23 11:27	07/19/23 22:16	1
Sodium	63.0		0.500	0.152 mg/L		07/19/23 11:27	07/19/23 22:16	1
SiO2	50.3		1.07	0.471 mg/L		07/19/23 11:27	07/19/23 22:16	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-14.8			%			07/18/23 08:25	1
Alkalinity (SM 2320B)	575		4.00	4.00 mg/L			07/18/23 21:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	575		4.00	4.00 mg/L			07/18/23 21:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/18/23 21:14	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/18/23 21:14	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/18/23 21:14	1
Total Dissolved Solids (SM 2540C)	1080		10.0	10.0 mg/L			07/18/23 14:29	1
pH (SM 4500 H+ B)	6.6	HF		SU			07/19/23 16:56	1
Temperature (SM 4500 H+ B)	20.4	HF		Degrees C			07/19/23 16:56	1

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Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-120)
880-30810-1	Levey Well	110	88	94	101
LCS 860-112895/31	Lab Control Sample	96	95	105	100
LCSD 860-112895/32	Lab Control Sample Dup	95	95	99	98
MB 860-112895/9	Method Blank	113	98	99	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-112895/9

Matrix: Water

Analysis Batch: 112895

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/19/23 02:01	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/19/23 02:01	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/19/23 02:01	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/19/23 02:01	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/19/23 02:01	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/19/23 02:01	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/19/23 02:01	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/19/23 02:01	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/19/23 02:01	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/19/23 02:01	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/19/23 02:01	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/19/23 02:01	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/19/23 02:01	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/19/23 02:01	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/19/23 02:01	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/19/23 02:01	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/19/23 02:01	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/19/23 02:01	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/19/23 02:01	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/19/23 02:01	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/19/23 02:01	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/19/23 02:01	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/19/23 02:01	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/19/23 02:01	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/19/23 02:01	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/19/23 02:01	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/19/23 02:01	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/19/23 02:01	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/19/23 02:01	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/19/23 02:01	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/19/23 02:01	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/19/23 02:01	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/19/23 02:01	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/19/23 02:01	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/19/23 02:01	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/19/23 02:01	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/19/23 02:01	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/19/23 02:01	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/19/23 02:01	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/19/23 02:01	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/19/23 02:01	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/19/23 02:01	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/19/23 02:01	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/19/23 02:01	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/19/23 02:01	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/19/23 02:01	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/19/23 02:01	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/19/23 02:01	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-112895/9

Matrix: Water

Analysis Batch: 112895

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/19/23 02:01	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/19/23 02:01	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/19/23 02:01	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/19/23 02:01	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/19/23 02:01	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/19/23 02:01	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/19/23 02:01	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/19/23 02:01	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/19/23 02:01	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/19/23 02:01	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/19/23 02:01	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/19/23 02:01	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/19/23 02:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		74 - 124				07/19/23 02:01	1
Dibromofluoromethane (Surr)	98		75 - 131				07/19/23 02:01	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				07/19/23 02:01	1
Toluene-d8 (Surr)	100		80 - 120				07/19/23 02:01	1

Lab Sample ID: LCS 860-112895/31

Matrix: Water

Analysis Batch: 112895

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	0.05024		mg/L		100	75 - 125
Bromobenzene	0.0500	0.05143		mg/L		103	75 - 125
Bromochloromethane	0.0500	0.05060		mg/L		101	60 - 140
Bromodichloromethane	0.0500	0.05272		mg/L		105	75 - 125
Bromoform	0.0500	0.05169		mg/L		103	70 - 130
Bromomethane	0.0500	0.05329		mg/L		107	60 - 140
2-Butanone	0.250	0.1977		mg/L		79	60 - 140
Carbon tetrachloride	0.0500	0.04888		mg/L		98	70 - 130
Chlorobenzene	0.0500	0.04905		mg/L		98	65 - 135
Chloroethane	0.0500	0.05666		mg/L		113	60 - 140
Chloroform	0.0500	0.04755		mg/L		95	70 - 121
Chloromethane	0.0500	0.04171		mg/L		83	60 - 140
2-Chlorotoluene	0.0500	0.05124		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.04985		mg/L		100	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04557		mg/L		91	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05095		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.05361		mg/L		107	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03890		mg/L		78	59 - 125
1,2-Dibromoethane	0.0500	0.05017		mg/L		100	73 - 125
1,2-Dichlorobenzene	0.0500	0.05208		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05156		mg/L		103	75 - 125
1,4-Dichlorobenzene	0.0500	0.04979		mg/L		100	75 - 125
Dichlorodifluoromethane	0.0500	0.05091		mg/L		102	50 - 150

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-112895/32

Matrix: Water

Analysis Batch: 112895

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Benzene	0.0500	0.04239		mg/L		85	75 - 125	17	25
Bromobenzene	0.0500	0.04500		mg/L		90	75 - 125	13	25
Bromochloromethane	0.0500	0.04443		mg/L		89	60 - 140	13	25
Bromodichloromethane	0.0500	0.04898		mg/L		98	75 - 125	7	25
Bromoform	0.0500	0.05306		mg/L		106	70 - 130	3	25
Bromomethane	0.0500	0.04678		mg/L		94	60 - 140	13	25
2-Butanone	0.250	0.1953		mg/L		78	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04475		mg/L		90	70 - 130	9	25
Chlorobenzene	0.0500	0.04693		mg/L		94	65 - 135	4	25
Chloroethane	0.0500	0.05719		mg/L		114	60 - 140	1	25
Chloroform	0.0500	0.04277		mg/L		86	70 - 121	11	25
Chloromethane	0.0500	0.03966		mg/L		79	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04571		mg/L		91	73 - 125	11	25
4-Chlorotoluene	0.0500	0.04521		mg/L		90	74 - 125	10	25
cis-1,2-Dichloroethene	0.0500	0.04038		mg/L		81	75 - 125	12	25
cis-1,3-Dichloropropene	0.0500	0.04824		mg/L		96	74 - 125	5	25
Dibromochloromethane	0.0500	0.05269		mg/L		105	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.03688		mg/L		74	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.04781		mg/L		96	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04705		mg/L		94	75 - 125	10	25
1,3-Dichlorobenzene	0.0500	0.04607		mg/L		92	75 - 125	11	25
1,4-Dichlorobenzene	0.0500	0.04552		mg/L		91	75 - 125	9	25
Dichlorodifluoromethane	0.0500	0.05114		mg/L		102	50 - 150	0	25
1,1-Dichloroethane	0.0500	0.03986		mg/L		80	70 - 130	10	25
1,2-Dichloroethane	0.0500	0.04630		mg/L		93	72 - 130	9	25
1,1-Dichloroethene	0.0500	0.04374		mg/L		87	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04325		mg/L		87	74 - 125	9	25
1,3-Dichloropropane	0.0500	0.04439		mg/L		89	75 - 125	9	25
2,2-Dichloropropane	0.0500	0.04661		mg/L		93	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.04189		mg/L		84	75 - 125	11	25
Ethylbenzene	0.0500	0.04813		mg/L		96	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.04476		mg/L		90	75 - 125	18	25
Isopropylbenzene	0.0500	0.05053		mg/L		101	75 - 125	5	25
Methylene Chloride	0.0500	0.03712		mg/L		74	71 - 125	7	25
m,p-Xylenes	0.0500	0.04900		mg/L		98	75 - 125	5	25
MTBE	0.0500	0.04516		mg/L		90	65 - 135	1	25
Naphthalene	0.0500	0.04101		mg/L		82	70 - 130	9	25
n-Butylbenzene	0.0500	0.04482		mg/L		90	75 - 125	11	25
N-Propylbenzene	0.0500	0.04500		mg/L		90	75 - 125	7	25
o-Xylene	0.0500	0.05006		mg/L		100	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04930		mg/L		99	75 - 125	10	25
sec-Butylbenzene	0.0500	0.04531		mg/L		91	75 - 125	8	25
Styrene	0.0500	0.05046		mg/L		101	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04814		mg/L		96	75 - 125	11	25
1,1,1,2-Tetrachloroethane	0.0500	0.05284		mg/L		106	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.03775		mg/L		75	74 - 125	13	25
Tetrachloroethene	0.0500	0.05298		mg/L		106	71 - 125	7	25
Toluene	0.0500	0.04518		mg/L		90	70 - 130	11	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-112895/32

Matrix: Water

Analysis Batch: 112895

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
trans-1,2-Dichloroethene	0.0500	0.04198		mg/L		84	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.04955		mg/L		99	66 - 125	6	25
1,2,3-Trichlorobenzene	0.0500	0.04065		mg/L		81	75 - 137	14	25
1,2,4-Trichlorobenzene	0.0500	0.04456		mg/L		89	75 - 135	8	25
1,1,1-Trichloroethane	0.0500	0.04490		mg/L		90	70 - 130	6	25
1,1,2-Trichloroethane	0.0500	0.04489		mg/L		90	70 - 130	7	25
Trichloroethene	0.0500	0.05076		mg/L		102	75 - 135	5	25
Trichlorofluoromethane	0.0500	0.05075		mg/L		101	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.03759		mg/L		75	75 - 125	8	25
1,2,4-Trimethylbenzene	0.0500	0.04702		mg/L		94	75 - 125	10	25
1,3,5-Trimethylbenzene	0.0500	0.04542		mg/L		91	60 - 140	10	25
Vinyl chloride	0.0500	0.05388		mg/L		108	60 - 140	17	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	95		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	98		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-112821/3

Matrix: Water

Analysis Batch: 112821

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			07/18/23 12:57	1
Chloride	<0.250	U	0.500	0.250 mg/L			07/18/23 12:57	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/18/23 12:57	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/18/23 12:57	1

Lab Sample ID: LCS 860-112821/4

Matrix: Water

Analysis Batch: 112821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Bromide	10.0	9.691		mg/L		97	90 - 110
Chloride	10.0	9.659		mg/L		97	90 - 110
Fluoride	10.0	9.879		mg/L		99	90 - 110
Sulfate	10.0	10.40		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-112821/5

Matrix: Water

Analysis Batch: 112821

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Bromide	10.0	9.755		mg/L		98	90 - 110	1	20
Chloride	10.0	9.734		mg/L		97	90 - 110	1	20
Fluoride	10.0	9.969		mg/L		100	90 - 110	1	20

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-112821/5

Matrix: Water

Analysis Batch: 112821

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
Sulfate	10.0	10.48		mg/L		105	90 - 110	1	20

Lab Sample ID: LLCS 860-112821/7

Matrix: Water

Analysis Batch: 112821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	0.500	0.4596	J	mg/L		92	50 - 150		
Chloride	0.500	0.4773	J	mg/L		95	50 - 150		
Fluoride	0.500	0.3533	J	mg/L		71	50 - 150		
Sulfate	0.500	0.4504	J	mg/L		90	50 - 150		

Lab Sample ID: MB 860-112822/3

Matrix: Water

Analysis Batch: 112822

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/18/23 12:57	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/18/23 12:57	1

Lab Sample ID: LCS 860-112822/4

Matrix: Water

Analysis Batch: 112822

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	10.0	9.846		mg/L		98	80 - 120		
Nitrite as N	10.0	9.771		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-112822/5

Matrix: Water

Analysis Batch: 112822

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
Nitrate as N	10.0	9.908		mg/L		99	80 - 120	1	20
Nitrite as N	10.0	9.873		mg/L		99	80 - 120	1	20

Lab Sample ID: LLCS 860-112822/6

Matrix: Water

Analysis Batch: 112822

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.100	0.06733	J	mg/L		67	50 - 150		
Nitrite as N	0.100	0.07635	J	mg/L		76	50 - 150		

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-113021/1-A

Matrix: Water

Analysis Batch: 113196

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 113021

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		07/19/23 12:26	07/19/23 20:51	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		07/19/23 12:26	07/19/23 20:51	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		07/19/23 12:26	07/19/23 20:51	1
Sodium	<0.152	U	0.500	0.152 mg/L		07/19/23 12:26	07/19/23 20:51	1
SiO2	<0.471	U	1.07	0.471 mg/L		07/19/23 12:26	07/19/23 20:51	1

Lab Sample ID: LCS 860-113021/2-A

Matrix: Water

Analysis Batch: 113196

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 113021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	22.10		mg/L		88	85 - 115
Magnesium	25.0	21.60		mg/L		86	85 - 115
Potassium	10.0	8.680		mg/L		87	85 - 115
Sodium	25.0	21.80		mg/L		87	85 - 115
SiO2	21.4	19.09		mg/L		89	85 - 115

Lab Sample ID: LCSD 860-113021/3-A

Matrix: Water

Analysis Batch: 113196

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 113021

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	22.10		mg/L		88	85 - 115	0	20
Magnesium	25.0	21.70		mg/L		87	85 - 115	0	20
Potassium	10.0	8.710		mg/L		87	85 - 115	0	20
Sodium	25.0	21.90		mg/L		88	85 - 115	0	20
SiO2	21.4	19.11		mg/L		89	85 - 115	0	20

Lab Sample ID: LLCS 860-113021/4-A

Matrix: Water

Analysis Batch: 113196

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 113021

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1810	J	mg/L		91	50 - 150
Magnesium	0.200	0.2120		mg/L		106	50 - 150
Potassium	0.500	0.4660	J	mg/L		93	50 - 150
Sodium	0.500	0.3710	J	mg/L		74	50 - 150
SiO2	1.07	1.029	J	mg/L		96	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-112979/3

Matrix: Water

Analysis Batch: 112979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/18/23 17:44	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/18/23 17:44	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/18/23 17:44	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/18/23 17:44	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-112979/3

Matrix: Water

Analysis Batch: 112979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/18/23 17:44	1

Lab Sample ID: LCS 860-112979/4

Matrix: Water

Analysis Batch: 112979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	239.3		mg/L		96	85 - 115

Lab Sample ID: LCSD 860-112979/5

Matrix: Water

Analysis Batch: 112979

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
Alkalinity	250	239.8		mg/L		96	85 - 115	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-112667/1

Matrix: Water

Analysis Batch: 112667

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			07/17/23 16:09	1

Lab Sample ID: LCS 860-112667/2

Matrix: Water

Analysis Batch: 112667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1002		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-112667/3

Matrix: Water

Analysis Batch: 112667

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
Total Dissolved Solids	1000	1003		mg/L		100	80 - 120	0	10

Lab Sample ID: LLCS 860-112667/4

Matrix: Water

Analysis Batch: 112667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	5.000		mg/L		100	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-30810-1 DU							Client Sample ID: Levey Well				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 113110											
	Sample	Sample		DU	DU					RPD	
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
pH	6.6	HF		6.5		SU				0.2	20
Temperature	20.4	HF		20.5		Degrees C				0.5	20

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 112895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total/NA	Water	8260C	
MB 860-112895/9	Method Blank	Total/NA	Water	8260C	
LCS 860-112895/31	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-112895/32	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 112821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total/NA	Water	300.0	
MB 860-112821/3	Method Blank	Total/NA	Water	300.0	
LCS 860-112821/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112821/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112821/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 112822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total/NA	Water	300.0	
MB 860-112822/3	Method Blank	Total/NA	Water	300.0	
LCS 860-112822/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112822/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112822/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 113021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-113021/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-113021/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-113021/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-113021/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 113196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	113021
880-30810-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	113021
MB 860-113021/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	113021
LCS 860-113021/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	113021
LCSD 860-113021/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	113021
LLCS 860-113021/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	113021

General Chemistry

Analysis Batch: 112667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-112667/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-112667/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-112667/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-112667/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 112752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 112979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-112979/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-112979/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-112979/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 113110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30810-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-30810-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

- 1
- 2
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- 7
- 8
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- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-30810-1
Date Collected: 07/17/23 12:20 Matrix: Water
Date Received: 07/17/23 15:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	112895	AN	EET HOU	07/19/23 05:11
Total/NA	Analysis	300.0		1	112821	WP	EET HOU	07/18/23 20:21
Total/NA	Analysis	300.0		1	112822	WP	EET HOU	07/18/23 20:21
Total Recoverable	Prep	200.7			113021	AGR	EET HOU	07/19/23 11:27
Total Recoverable	Analysis	200.7 Rev 4.4		1	113196	JDM	EET HOU	07/19/23 22:16
Total Recoverable	Prep	200.7			113021	AGR	EET HOU	07/19/23 11:27
Total Recoverable	Analysis	200.7 Rev 4.4		50	113196	JDM	EET HOU	07/19/23 22:34
Total/NA	Analysis	SM 1030E		1	112752	SC	EET HOU	07/18/23 08:25
Total/NA	Analysis	SM 2320B		1	112979	TL	EET HOU	07/18/23 21:14
Total/NA	Analysis	SM 2540C		1	112667	OH	EET HOU	07/18/23 14:29
Total/NA	Analysis	SM 4500 H+ B		1	113110	TL	EET HOU	07/19/23 16:56

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
200.7 Rev 4.4	Metals (ICP)	EPA	EET HOU
SM 1030E	Cation Anion Balance	SM	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
200.7	Preparation, Total Recoverable Metals	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-30810-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30810-1	Levey Well	Water	07/17/23 12:20	07/17/23 15:44

- 1
- 2
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- 11
- 12
- 13
- 14



Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806) 794-1296

Work Order No: 35810

www.xenco.com Page 1 of 1

Project Manager:	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Merenfield #400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	432-230-3344	Email:	bjenings@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:	Levey Well	Hobbs NM	Turn Around	
Project Number:	03B1417001		Routine	☐
P.O. Number:	03B1417001		Rush 24 hr	
Sampler's Name:	Shane Diller		Due Date	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Well Ice:	Yes	No
Temperature (°C):	3.4/13.1			Thermometer ID	278	
Received intact:	Yes	No		Correction Factor		
Cooler Custody Seals	Yes	No	N/A	Total Containers:		
Sample Custody Seals	Yes	No	N/A			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS	Sample Comments
Levey Well	GW	7-17-23	1220	—	7	X	X	X	X	X	X	24hr
2-15-23												
412E												



880-30810 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	SiO2	Na	Sr	Ti	Sn	U	V	Zn																						
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010		8RCRA		Sb		As		Ba		Be		B		Cd		Ca		Cr		Co		Cu		Pb		Mn		Mo		Ni		Se		Ag		SiO2		Na		Sr		Ti		Sn		U		V		Zn	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
		7/17/23			2
		11504			4
					6



Every -onment Test: pg

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-30810-1

SDG Number: Hobbs NM

Login Number: 30810

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: 880-30810-1

SDG Number: Hobbs NM

Login Number: 30810

List Source: Eurofins Houston

List Number: 2

List Creation: 07/18/23 02:02 PM

Creator: Pena, Jesiel

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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/3/2023 9:59:04 AM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

880-31347-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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
8/3/2023 9:59:04 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-31347-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

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.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
α	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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Job ID: 880-31347-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-31347-1

Receipt

The sample was received on 7/27/2023 2:55 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-114848 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The continuing calibration blank for analytical batch 860-115018 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the continuing calibration blank. The data have been reported.

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for analytical batch 860-115018 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/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

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

Metals

Method 200.7: Due to the high concentration of Magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-115161 and analytical batch 860-115359 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry

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

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-31347-1

Date Collected: 07/27/23 10:10

Matrix: Water

Date Received: 07/27/23 14:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00659		0.00100	0.000460 mg/L			07/31/23 12:23	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/31/23 12:23	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/31/23 12:23	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/31/23 12:23	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/31/23 12:23	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/31/23 12:23	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/31/23 12:23	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/31/23 12:23	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/31/23 12:23	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/31/23 12:23	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/31/23 12:23	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/31/23 12:23	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/31/23 12:23	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/31/23 12:23	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/31/23 12:23	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/31/23 12:23	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/31/23 12:23	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/31/23 12:23	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/31/23 12:23	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/31/23 12:23	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/31/23 12:23	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/31/23 12:23	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/31/23 12:23	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/31/23 12:23	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/31/23 12:23	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/31/23 12:23	1
1,2-Dichloropropane	0.00262	J	0.00500	0.000667 mg/L			07/31/23 12:23	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/31/23 12:23	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/31/23 12:23	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/31/23 12:23	1
Ethylbenzene	0.0228		0.00100	0.000411 mg/L			07/31/23 12:23	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/31/23 12:23	1
Isopropylbenzene	0.0111		0.00100	0.000613 mg/L			07/31/23 12:23	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/31/23 12:23	1
m,p-Xylenes	0.0887		0.0100	0.00124 mg/L			07/31/23 12:23	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/31/23 12:23	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/31/23 12:23	1
n-Butylbenzene	0.00111		0.00100	0.000644 mg/L			07/31/23 12:23	1
N-Propylbenzene	0.00502		0.00100	0.000498 mg/L			07/31/23 12:23	1
o-Xylene	0.0138		0.00100	0.000551 mg/L			07/31/23 12:23	1
p-Cymene (p-Isopropyltoluene)	0.00116		0.00100	0.000919 mg/L			07/31/23 12:23	1
sec-Butylbenzene	0.00197		0.00100	0.000468 mg/L			07/31/23 12:23	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/31/23 12:23	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/31/23 12:23	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/31/23 12:23	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/31/23 12:23	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/31/23 12:23	1
Toluene	0.0421		0.00100	0.000475 mg/L			07/31/23 12:23	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/31/23 12:23	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 07/27/23 10:10
Date Received: 07/27/23 14:55

Lab Sample ID: 880-31347-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			07/31/23 12:23	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L			07/31/23 12:23	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			07/31/23 12:23	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L			07/31/23 12:23	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L			07/31/23 12:23	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			07/31/23 12:23	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L			07/31/23 12:23	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L			07/31/23 12:23	1
1,2,4-Trimethylbenzene	0.0219		0.00100	0.000417	mg/L			07/31/23 12:23	1
1,3,5-Trimethylbenzene	0.00651		0.00100	0.000456	mg/L			07/31/23 12:23	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L			07/31/23 12:23	1
Xylenes, Total	0.103		0.0100	0.00124	mg/L			07/31/23 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124					07/31/23 12:23	1
Dibromofluoromethane (Surr)	101		75 - 131					07/31/23 12:23	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144					07/31/23 12:23	1
Toluene-d8 (Surr)	101		80 - 120					07/31/23 12:23	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.489	J	0.500	0.0711	mg/L			07/29/23 01:48	1
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			07/29/23 01:48	1
Chloride	300		0.500	0.250	mg/L			07/31/23 15:01	1
Nitrite as N	0.977		0.100	0.0293	mg/L			07/29/23 01:48	1
Fluoride	0.280	J	0.500	0.100	mg/L			07/29/23 01:48	1
Sulfate	47.1		0.500	0.200	mg/L			07/29/23 01:48	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	389		10.0	5.76	mg/L		08/01/23 12:00	08/01/23 22:50	50
Magnesium	71.1		0.200	0.0428	mg/L		08/01/23 12:00	08/01/23 22:46	1
Potassium	7.20		0.500	0.0914	mg/L		08/01/23 12:00	08/01/23 22:46	1
Sodium	109		0.500	0.152	mg/L		08/01/23 12:00	08/02/23 12:57	1
SiO2	71.7		1.07	0.471	mg/L		08/01/23 12:00	08/01/23 22:46	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-3.06				%			07/30/23 14:47	1
Alkalinity (SM 2320B)	1010		4.00	4.00	mg/L			07/29/23 13:31	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1010		4.00	4.00	mg/L			07/29/23 13:31	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/29/23 13:31	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/29/23 13:31	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/29/23 13:31	1
Total Dissolved Solids (SM 2540C)	1880		20.0	20.0	mg/L			07/27/23 17:54	1
pH (SM 4500 H+ B)	6.4	HF			SU			07/28/23 17:49	1
Temperature (SM 4500 H+ B)	20.6	HF			Degrees C			07/28/23 17:49	1

Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-120)
880-31347-1	Levey Well	96	101	103	101
LCS 860-114848/3	Lab Control Sample	97	102	103	100
LCSD 860-114848/4	Lab Control Sample Dup	98	104	102	102
MB 860-114848/10	Method Blank	94	104	104	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-114848/10

Matrix: Water

Analysis Batch: 114848

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/31/23 11:22	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/31/23 11:22	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/31/23 11:22	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/31/23 11:22	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/31/23 11:22	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/31/23 11:22	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/31/23 11:22	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/31/23 11:22	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/31/23 11:22	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/31/23 11:22	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/31/23 11:22	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/31/23 11:22	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/31/23 11:22	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/31/23 11:22	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/31/23 11:22	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/31/23 11:22	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/31/23 11:22	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/31/23 11:22	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/31/23 11:22	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/31/23 11:22	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/31/23 11:22	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/31/23 11:22	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/31/23 11:22	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/31/23 11:22	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/31/23 11:22	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/31/23 11:22	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/31/23 11:22	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/31/23 11:22	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/31/23 11:22	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/31/23 11:22	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/31/23 11:22	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/31/23 11:22	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/31/23 11:22	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/31/23 11:22	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/31/23 11:22	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/31/23 11:22	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/31/23 11:22	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/31/23 11:22	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/31/23 11:22	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/31/23 11:22	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/31/23 11:22	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/31/23 11:22	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/31/23 11:22	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/31/23 11:22	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/31/23 11:22	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/31/23 11:22	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/31/23 11:22	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/31/23 11:22	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-114848/10

Matrix: Water

Analysis Batch: 114848

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/31/23 11:22	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/31/23 11:22	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/31/23 11:22	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/31/23 11:22	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/31/23 11:22	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/31/23 11:22	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/31/23 11:22	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/31/23 11:22	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/31/23 11:22	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/31/23 11:22	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/31/23 11:22	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/31/23 11:22	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/31/23 11:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124				07/31/23 11:22	1
Dibromofluoromethane (Surr)	104		75 - 131				07/31/23 11:22	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144				07/31/23 11:22	1
Toluene-d8 (Surr)	101		80 - 120				07/31/23 11:22	1

Lab Sample ID: LCS 860-114848/3

Matrix: Water

Analysis Batch: 114848

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	0.04897		mg/L		98	75 - 125
Bromobenzene	0.0500	0.04730		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.04776		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.04430		mg/L		89	75 - 125
Bromoform	0.0500	0.04197		mg/L		84	70 - 130
Bromomethane	0.0500	0.05407		mg/L		108	60 - 140
2-Butanone	0.250	0.2235		mg/L		89	60 - 140
Carbon tetrachloride	0.0500	0.04653		mg/L		93	70 - 130
Chlorobenzene	0.0500	0.04707		mg/L		94	65 - 135
Chloroethane	0.0500	0.05034		mg/L		101	60 - 140
Chloroform	0.0500	0.04619		mg/L		92	70 - 121
Chloromethane	0.0500	0.04368		mg/L		87	60 - 140
2-Chlorotoluene	0.0500	0.04749		mg/L		95	73 - 125
4-Chlorotoluene	0.0500	0.04835		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04765		mg/L		95	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04738		mg/L		95	74 - 125
Dibromochloromethane	0.0500	0.04391		mg/L		88	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04249		mg/L		85	59 - 125
1,2-Dibromoethane	0.0500	0.04538		mg/L		91	73 - 125
1,2-Dichlorobenzene	0.0500	0.04788		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04740		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04761		mg/L		95	75 - 125
Dichlorodifluoromethane	0.0500	0.04587		mg/L		92	50 - 150

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-114848/3
Matrix: Water
Analysis Batch: 114848

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1,1-Dichloroethane	0.0500	0.05353		mg/L		107	70 - 130
1,2-Dichloroethane	0.0500	0.04628		mg/L		93	72 - 130
1,1-Dichloroethene	0.0500	0.04656		mg/L		93	50 - 150
1,2-Dichloropropane	0.0500	0.04905		mg/L		98	74 - 125
1,3-Dichloropropane	0.0500	0.04661		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.04794		mg/L		96	75 - 125
1,1-Dichloropropene	0.0500	0.04942		mg/L		99	75 - 125
Ethylbenzene	0.0500	0.04817		mg/L		96	75 - 125
Hexachlorobutadiene	0.0500	0.04678		mg/L		94	75 - 125
Isopropylbenzene	0.0500	0.04756		mg/L		95	75 - 125
Methylene Chloride	0.0500	0.05143		mg/L		103	71 - 125
m,p-Xylenes	0.0500	0.04726		mg/L		95	75 - 125
MTBE	0.0500	0.05035		mg/L		101	65 - 135
Naphthalene	0.0500	0.04540		mg/L		91	70 - 130
n-Butylbenzene	0.0500	0.04979		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.04879		mg/L		98	75 - 125
o-Xylene	0.0500	0.04720		mg/L		94	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04776		mg/L		96	75 - 125
sec-Butylbenzene	0.0500	0.04877		mg/L		98	75 - 125
Styrene	0.0500	0.04680		mg/L		94	75 - 125
tert-Butylbenzene	0.0500	0.04738		mg/L		95	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04522		mg/L		90	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04972		mg/L		99	74 - 125
Tetrachloroethene	0.0500	0.04724		mg/L		94	71 - 125
Toluene	0.0500	0.04684		mg/L		94	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05303		mg/L		106	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04548		mg/L		91	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04622		mg/L		92	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04682		mg/L		94	75 - 135
1,1,1-Trichloroethane	0.0500	0.04780		mg/L		96	70 - 130
1,1,2-Trichloroethane	0.0500	0.04667		mg/L		93	70 - 130
Trichloroethene	0.0500	0.04641		mg/L		93	75 - 135
Trichlorofluoromethane	0.0500	0.05588		mg/L		112	60 - 140
1,2,3-Trichloropropane	0.0500	0.04590		mg/L		92	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05008		mg/L		100	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04689		mg/L		94	60 - 140
Vinyl chloride	0.0500	0.05051		mg/L		101	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-114848/4
Matrix: Water
Analysis Batch: 114848

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Benzene	0.0500	0.04807		mg/L		96	75 - 125	2	25
Bromobenzene	0.0500	0.04901		mg/L		98	75 - 125	4	25
Bromochloromethane	0.0500	0.04838		mg/L		97	60 - 140	1	25
Bromodichloromethane	0.0500	0.04428		mg/L		89	75 - 125	0	25
Bromoform	0.0500	0.04161		mg/L		83	70 - 130	1	25
Bromomethane	0.0500	0.05576		mg/L		112	60 - 140	3	25
2-Butanone	0.250	0.2298		mg/L		92	60 - 140	3	25
Carbon tetrachloride	0.0500	0.04740		mg/L		95	70 - 130	2	25
Chlorobenzene	0.0500	0.04760		mg/L		95	65 - 135	1	25
Chloroethane	0.0500	0.05446		mg/L		109	60 - 140	8	25
Chloroform	0.0500	0.04648		mg/L		93	70 - 121	1	25
Chloromethane	0.0500	0.04462		mg/L		89	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04891		mg/L		98	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04961		mg/L		99	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.04749		mg/L		95	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.04697		mg/L		94	74 - 125	1	25
Dibromochloromethane	0.0500	0.04475		mg/L		89	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04399		mg/L		88	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.04610		mg/L		92	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04943		mg/L		99	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.04952		mg/L		99	75 - 125	4	25
1,4-Dichlorobenzene	0.0500	0.04939		mg/L		99	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.04435		mg/L		89	50 - 150	3	25
1,1-Dichloroethane	0.0500	0.05451		mg/L		109	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.04623		mg/L		92	72 - 130	0	25
1,1-Dichloroethene	0.0500	0.04755		mg/L		95	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04858		mg/L		97	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04718		mg/L		94	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04700		mg/L		94	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.04913		mg/L		98	75 - 125	1	25
Ethylbenzene	0.0500	0.04901		mg/L		98	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04856		mg/L		97	75 - 125	4	25
Isopropylbenzene	0.0500	0.04786		mg/L		96	75 - 125	1	25
Methylene Chloride	0.0500	0.05180		mg/L		104	71 - 125	1	25
m,p-Xylenes	0.0500	0.04792		mg/L		96	75 - 125	1	25
MTBE	0.0500	0.05099		mg/L		102	65 - 135	1	25
Naphthalene	0.0500	0.04706		mg/L		94	70 - 130	4	25
n-Butylbenzene	0.0500	0.05120		mg/L		102	75 - 125	3	25
N-Propylbenzene	0.0500	0.04999		mg/L		100	75 - 125	2	25
o-Xylene	0.0500	0.04768		mg/L		95	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04895		mg/L		98	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04965		mg/L		99	75 - 125	2	25
Styrene	0.0500	0.04790		mg/L		96	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04844		mg/L		97	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04618		mg/L		92	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.05114		mg/L		102	74 - 125	3	25
Tetrachloroethene	0.0500	0.04770		mg/L		95	71 - 125	1	25
Toluene	0.0500	0.04744		mg/L		95	70 - 130	1	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-114848/4
Matrix: Water
Analysis Batch: 114848

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
trans-1,2-Dichloroethene	0.0500	0.05141		mg/L		103	75 - 125	3	25
trans-1,3-Dichloropropene	0.0500	0.04621		mg/L		92	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.04802		mg/L		96	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.04801		mg/L		96	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.04775		mg/L		96	70 - 130	0	25
1,1,2-Trichloroethane	0.0500	0.04734		mg/L		95	70 - 130	1	25
Trichloroethene	0.0500	0.04528		mg/L		91	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05785		mg/L		116	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04732		mg/L		95	75 - 125	3	25
1,2,4-Trimethylbenzene	0.0500	0.05131		mg/L		103	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.04804		mg/L		96	60 - 140	2	25
Vinyl chloride	0.0500	0.05222		mg/L		104	60 - 140	3	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	102		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-114618/3
Matrix: Water
Analysis Batch: 114618

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			07/28/23 10:29	1
Chloride	<0.250	U	0.500	0.250 mg/L			07/28/23 10:29	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/23 10:29	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/28/23 10:29	1

Lab Sample ID: MB 860-114618/40
Matrix: Water
Analysis Batch: 114618

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			07/28/23 17:57	1
Chloride	0.2844	J	0.500	0.250 mg/L			07/28/23 17:57	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/23 17:57	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/28/23 17:57	1

Lab Sample ID: LCS 860-114618/41
Matrix: Water
Analysis Batch: 114618

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Bromide	10.0	9.954		mg/L		100	90 - 110
Chloride	10.0	10.13		mg/L		101	90 - 110
Fluoride	10.0	10.29		mg/L		103	90 - 110

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-114618/41

Matrix: Water

Analysis Batch: 114618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.03		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-114618/42

Matrix: Water

Analysis Batch: 114618

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
Bromide	10.0	9.966		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.44		mg/L		104	90 - 110	1	20
Sulfate	10.0	10.02		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-114618/7

Matrix: Water

Analysis Batch: 114618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.500	0.4649	J	mg/L		93	50 - 150
Chloride	0.500	0.5133		mg/L		103	50 - 150
Fluoride	0.500	0.5605		mg/L		112	50 - 150
Sulfate	0.500	0.4822	J	mg/L		96	50 - 150

Lab Sample ID: MB 860-114619/3

Matrix: Water

Analysis Batch: 114619

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/28/23 10:29	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/23 10:29	1

Lab Sample ID: MB 860-114619/40

Matrix: Water

Analysis Batch: 114619

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/28/23 17:57	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/23 17:57	1

Lab Sample ID: LCS 860-114619/41

Matrix: Water

Analysis Batch: 114619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.06		mg/L		101	80 - 120
Nitrite as N	10.0	10.00		mg/L		100	80 - 120

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-114619/42

Matrix: Water

Analysis Batch: 114619

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N			10.0	10.06		mg/L		101	80 - 120	0	20
Nitrite as N			10.0	10.00		mg/L		100	80 - 120	0	20

Lab Sample ID: LLCS 860-114619/6

Matrix: Water

Analysis Batch: 114619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
Nitrate as N	0.100	0.1185		mg/L		118	50 - 150	
Nitrite as N	0.100	0.08640	J	mg/L		86	50 - 150	

Lab Sample ID: MB 860-115018/3

Matrix: Water

Analysis Batch: 115018

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			07/31/23 10:57	1
Chloride	<0.250	U	0.500	0.250 mg/L			07/31/23 10:57	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/31/23 10:57	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/31/23 10:57	1

Lab Sample ID: LCS 860-115018/4

Matrix: Water

Analysis Batch: 115018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Bromide	10.0	9.868		mg/L		99	90 - 110	
Chloride	10.0	9.876		mg/L		99	90 - 110	
Fluoride	10.0	10.45		mg/L		104	90 - 110	
Sulfate	10.0	9.973		mg/L		100	90 - 110	

Lab Sample ID: LCSD 860-115018/5

Matrix: Water

Analysis Batch: 115018

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		
Bromide	10.0	9.904		mg/L		99	90 - 110	0	20
Chloride	10.0	9.881		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.46		mg/L		105	90 - 110	0	20
Sulfate	10.0	9.993		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-115018/7

Matrix: Water

Analysis Batch: 115018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
Bromide	0.500	0.4654	J	mg/L		93	50 - 150	
Chloride	0.500	0.5388		mg/L		108	50 - 150	
Fluoride	0.500	0.5360		mg/L		107	50 - 150	
Sulfate	0.500	0.5206		mg/L		104	50 - 150	

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-115161/1-A
Matrix: Water
Analysis Batch: 115359

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 115161

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		08/01/23 12:00	08/01/23 21:49	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		08/01/23 12:00	08/01/23 21:49	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		08/01/23 12:00	08/01/23 21:49	1
Sodium	<0.152	U	0.500	0.152 mg/L		08/01/23 12:00	08/01/23 21:49	1
SiO2	<0.471	U	1.07	0.471 mg/L		08/01/23 12:00	08/01/23 21:49	1

Lab Sample ID: LCS 860-115161/2-A
Matrix: Water
Analysis Batch: 115359

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 115161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.90		mg/L		104	85 - 115
Magnesium	25.0	25.10		mg/L		100	85 - 115
Potassium	10.0	10.30		mg/L		103	85 - 115
Sodium	25.0	25.40		mg/L		102	85 - 115
SiO2	21.4	22.26		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-115161/3-A
Matrix: Water
Analysis Batch: 115359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 115161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.80		mg/L		103	85 - 115	0	20
Magnesium	25.0	25.10		mg/L		100	85 - 115	0	20
Potassium	10.0	10.30		mg/L		103	85 - 115	0	20
Sodium	25.0	25.40		mg/L		102	85 - 115	0	20
SiO2	21.4	22.26		mg/L		104	85 - 115	0	20

Lab Sample ID: LLCS 860-115161/4-A
Matrix: Water
Analysis Batch: 115359

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 115161

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1730	J	mg/L		87	50 - 150
Magnesium	0.200	0.2050		mg/L		103	50 - 150
Potassium	0.500	0.5660		mg/L		113	50 - 150
Sodium	0.500	0.6240		mg/L		125	50 - 150
SiO2	1.07	1.136		mg/L		106	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-114798/3
Matrix: Water
Analysis Batch: 114798

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/29/23 12:21	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/29/23 12:21	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/29/23 12:21	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			07/29/23 12:21	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-114798/3

Matrix: Water

Analysis Batch: 114798

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			07/29/23 12:21	1

Lab Sample ID: LCS 860-114798/4

Matrix: Water

Analysis Batch: 114798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	245.8		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-114798/5

Matrix: Water

Analysis Batch: 114798

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
Alkalinity	250	247.9		mg/L		99	85 - 115	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-114519/1

Matrix: Water

Analysis Batch: 114519

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			07/27/23 17:54	1

Lab Sample ID: LCS 860-114519/2

Matrix: Water

Analysis Batch: 114519

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1007		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-114519/3

Matrix: Water

Analysis Batch: 114519

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
Total Dissolved Solids	1000	1008		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-114519/4

Matrix: Water

Analysis Batch: 114519

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		90	50 - 150

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 114848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total/NA	Water	8260C	
MB 860-114848/10	Method Blank	Total/NA	Water	8260C	
LCS 860-114848/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-114848/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 114618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total/NA	Water	300.0	
MB 860-114618/3	Method Blank	Total/NA	Water	300.0	
MB 860-114618/40	Method Blank	Total/NA	Water	300.0	
LCS 860-114618/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-114618/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-114618/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 114619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total/NA	Water	300.0	
MB 860-114619/3	Method Blank	Total/NA	Water	300.0	
MB 860-114619/40	Method Blank	Total/NA	Water	300.0	
LCS 860-114619/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-114619/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-114619/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 115018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total/NA	Water	300.0	
MB 860-115018/3	Method Blank	Total/NA	Water	300.0	
LCS 860-115018/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-115018/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-115018/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 115161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-115161/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-115161/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-115161/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-115161/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 115359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	115161
880-31347-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	115161
MB 860-115161/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	115161
LCS 860-115161/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	115161
LCSD 860-115161/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	115161
LLCS 860-115161/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	115161

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Metals

Analysis Batch: 115400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	115161

General Chemistry

Analysis Batch: 114519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-114519/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-114519/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-114519/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-114519/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 114734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 114798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-114798/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-114798/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-114798/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 114826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31347-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-31347-1

Date Collected: 07/27/23 10:10

Matrix: Water

Date Received: 07/27/23 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	114848	NA	EET HOU	07/31/23 12:23
Total/NA	Analysis	300.0		1	114618	WP	EET HOU	07/29/23 01:48
Total/NA	Analysis	300.0		1	114619	WP	EET HOU	07/29/23 01:48
Total/NA	Analysis	300.0		1	115018	WP	EET HOU	07/31/23 15:01
Total Recoverable	Prep	200.7			115161	MD	EET HOU	08/01/23 12:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	115359	JDM	EET HOU	08/01/23 22:46
Total Recoverable	Prep	200.7			115161	MD	EET HOU	08/01/23 12:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	115359	JDM	EET HOU	08/01/23 22:50
Total Recoverable	Prep	200.7			115161	MD	EET HOU	08/01/23 12:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	115400	JDM	EET HOU	08/02/23 12:57
Total/NA	Analysis	SM 1030E		1	114826	MC	EET HOU	07/30/23 14:47
Total/NA	Analysis	SM 2320B		1	114798	TL	EET HOU	07/29/23 13:31
Total/NA	Analysis	SM 2540C		1	114519	OH	EET HOU	07/27/23 17:54
Total/NA	Analysis	SM 4500 H+ B		1	114734	TL	EET HOU	07/28/23 17:49

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
200.7 Rev 4.4	Metals (ICP)	EPA	EET HOU
SM 1030E	Cation Anion Balance	SM	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
200.7	Preparation, Total Recoverable Metals	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

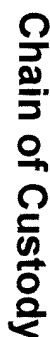
Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31347-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31347-1	Levey Well	Water	07/27/23 10:10	07/27/23 14:55

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



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880-31347 Chain of Custody

Work Order Comments

Program: UST/PST ☐ PRR ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other ☐

[illegible][illegible][illegible]

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	Texas 11 Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
		1631 / 245.1 / 7470 / 7471	Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
		7/27/03			
		1455			

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone. 432-704-5440

Chain of Custody Record



Environmental Test and

Client Information (Sub Contract Lab)		Lab Pk:	Carrier Tracking No(s):	COC No:
Client Contact:		Kramer Jessica		880-7534.1
Shipping/Receiving		E-Mail:	State of Origin:	Page:
Company:		Jessica.Kramer@et.eurofinsus.com	New Mexico	Page 1 of 1
Eurofins Environment Testing South Centr		Accreditations Required (See note):		
Address:		NELAP Texas		
City:		Job #		
State, Zip:		880-31347 1		
TX, 77477		Preservation Codes:		
Phone:		M Hexane		
281-240-4200(Tel)		N None		
Email:		O AsNaO2		
Project #:		P Na2O4S		
Levey Well Hobbs NM 03B1417001		Q Na2SO3		
Site:		R Na2S2O3		
SSOV#		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)		Total Number of containers		
Levey Well (880-31347 1)		7		
Sample Date		Special Instructions/Note:		
7/27/23				
Sample Time				
10-10				
Mountain				
Matrix				
(Water, Spiked, On-site)				
Sample Type				
(C=comp, G=grab)				
Preservation Code				
Water				
Field Filtered Sample (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540C_Calcd/ TDS				
2320B/ Alkalinity				
Cation, Anion/ (MOD) Copy Analyses				
Perform MS/MSD (Yes or No)				
8260C/5030C (MOD) Full List VOCs				
200.7/200.7_P TR (MOD) Custom List				
300.ORGFM/28D/Br, Cl, F, SO4				
300.ORGFM/NO2, NO3				
SM4500_H+ pH				
2540				

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-31347-1

SDG Number: Hobbs NM

Login Number: 31347

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: 880-31347-1

SDG Number: Hobbs NM

Login Number: 31347

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 07/28/23 02:18 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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/9/2023 12:03:46 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
SDG NUMBER Hobbs NM

JOB NUMBER

880-31467-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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



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8/9/2023 12:03:46 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Laboratory Job ID: 880-31467-1
SDG: Hobbs NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

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.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
α	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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Job ID: 880-31467-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-31467-1

Receipt

The sample was received on 8/1/2023 8:15 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 0.0°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-115333 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-115333 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-116268 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported..

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-116268 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/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

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

Metals

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

General Chemistry

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

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-31467-1

Date Collected: 07/31/23 14:52

Matrix: Water

Date Received: 08/01/23 08:15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			08/02/23 21:46	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			08/02/23 21:46	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			08/02/23 21:46	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			08/02/23 21:46	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			08/02/23 21:46	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			08/02/23 21:46	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			08/02/23 21:46	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			08/02/23 21:46	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			08/02/23 21:46	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			08/02/23 21:46	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			08/02/23 21:46	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			08/02/23 21:46	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			08/02/23 21:46	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			08/02/23 21:46	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			08/02/23 21:46	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			08/02/23 21:46	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			08/02/23 21:46	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			08/02/23 21:46	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			08/02/23 21:46	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			08/02/23 21:46	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			08/02/23 21:46	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			08/02/23 21:46	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			08/02/23 21:46	1
1,1-Dichloroethane	0.000720	J	0.00100	0.000635 mg/L			08/02/23 21:46	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			08/02/23 21:46	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			08/02/23 21:46	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			08/02/23 21:46	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			08/02/23 21:46	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			08/02/23 21:46	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			08/02/23 21:46	1
Ethylbenzene	0.000681	J	0.00100	0.000411 mg/L			08/02/23 21:46	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			08/02/23 21:46	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			08/02/23 21:46	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			08/02/23 21:46	1
m,p-Xylenes	0.00256	J	0.0100	0.00124 mg/L			08/02/23 21:46	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			08/02/23 21:46	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			08/02/23 21:46	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			08/02/23 21:46	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			08/02/23 21:46	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			08/02/23 21:46	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			08/02/23 21:46	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			08/02/23 21:46	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			08/02/23 21:46	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			08/02/23 21:46	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			08/02/23 21:46	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			08/02/23 21:46	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			08/02/23 21:46	1
Toluene	0.000786	J	0.00100	0.000475 mg/L			08/02/23 21:46	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			08/02/23 21:46	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-31467-1

Date Collected: 07/31/23 14:52

Matrix: Water

Date Received: 08/01/23 08:15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			08/02/23 21:46	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			08/02/23 21:46	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			08/02/23 21:46	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			08/02/23 21:46	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			08/02/23 21:46	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			08/02/23 21:46	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			08/02/23 21:46	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			08/02/23 21:46	1
1,2,4-Trimethylbenzene	0.00120		0.00100	0.000417 mg/L			08/02/23 21:46	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			08/02/23 21:46	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			08/02/23 21:46	1
Xylenes, Total	0.00256	J	0.0100	0.00124 mg/L			08/02/23 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		08/02/23 21:46	1
Dibromofluoromethane (Surr)	101		75 - 131		08/02/23 21:46	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		08/02/23 21:46	1
Toluene-d8 (Surr)	101		80 - 120		08/02/23 21:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.384	J	0.500	0.0711 mg/L			08/07/23 22:35	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			08/02/23 11:10	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			08/02/23 11:10	1
Fluoride	0.635		0.500	0.100 mg/L			08/07/23 22:35	1
Sulfate	42.7		0.500	0.200 mg/L			08/07/23 22:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		0.500	0.250 mg/L			08/08/23 12:35	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	207		10.0	5.76 mg/L		08/03/23 09:30	08/03/23 17:27	50
Magnesium	44.6		0.200	0.0428 mg/L		08/03/23 09:30	08/03/23 16:55	1
Potassium	4.26		0.500	0.0914 mg/L		08/03/23 09:30	08/03/23 16:55	1
Sodium	93.7		0.500	0.152 mg/L		08/03/23 09:30	08/03/23 16:55	1
SiO2	78.8		1.07	0.471 mg/L		08/03/23 09:30	08/03/23 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-2.22			%			08/07/23 10:00	1
Alkalinity (SM 2320B)	445		4.00	4.00 mg/L			08/03/23 13:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	445		4.00	4.00 mg/L			08/03/23 13:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			08/03/23 13:09	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			08/03/23 13:09	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			08/03/23 13:09	1
Total Dissolved Solids (SM 2540C)	1100		10.0	10.0 mg/L			08/02/23 16:15	1
pH (SM 4500 H+ B)	7.5	HF		SU			08/03/23 13:15	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 07/31/23 14:52
Date Received: 08/01/23 08:15

Lab Sample ID: 880-31467-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Temperature (SM 4500 H+ B)	18.3	HF		Celsius			08/03/23 13:15	1	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-120)
880-31467-1	Levey Well	100	101	100	101
LCS 860-115333/1011	Lab Control Sample	100	100	97	99
LCSD 860-115333/12	Lab Control Sample Dup	100	100	97	99
MB 860-115333/17	Method Blank	101	102	103	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-115333/17

Matrix: Water

Analysis Batch: 115333

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			08/02/23 16:59	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			08/02/23 16:59	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			08/02/23 16:59	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			08/02/23 16:59	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			08/02/23 16:59	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			08/02/23 16:59	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			08/02/23 16:59	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			08/02/23 16:59	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			08/02/23 16:59	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			08/02/23 16:59	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			08/02/23 16:59	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			08/02/23 16:59	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			08/02/23 16:59	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			08/02/23 16:59	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			08/02/23 16:59	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			08/02/23 16:59	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			08/02/23 16:59	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			08/02/23 16:59	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			08/02/23 16:59	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			08/02/23 16:59	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			08/02/23 16:59	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			08/02/23 16:59	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			08/02/23 16:59	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			08/02/23 16:59	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			08/02/23 16:59	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			08/02/23 16:59	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			08/02/23 16:59	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			08/02/23 16:59	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			08/02/23 16:59	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			08/02/23 16:59	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			08/02/23 16:59	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			08/02/23 16:59	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			08/02/23 16:59	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			08/02/23 16:59	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			08/02/23 16:59	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			08/02/23 16:59	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			08/02/23 16:59	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			08/02/23 16:59	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			08/02/23 16:59	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			08/02/23 16:59	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			08/02/23 16:59	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			08/02/23 16:59	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			08/02/23 16:59	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			08/02/23 16:59	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			08/02/23 16:59	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			08/02/23 16:59	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			08/02/23 16:59	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			08/02/23 16:59	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-115333/17

Matrix: Water

Analysis Batch: 115333

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			08/02/23 16:59	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			08/02/23 16:59	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			08/02/23 16:59	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			08/02/23 16:59	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			08/02/23 16:59	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			08/02/23 16:59	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			08/02/23 16:59	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			08/02/23 16:59	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			08/02/23 16:59	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			08/02/23 16:59	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			08/02/23 16:59	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			08/02/23 16:59	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			08/02/23 16:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124				08/02/23 16:59	1
Dibromofluoromethane (Surr)	102		75 - 131				08/02/23 16:59	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144				08/02/23 16:59	1
Toluene-d8 (Surr)	98		80 - 120				08/02/23 16:59	1

Lab Sample ID: LCS 860-115333/1011

Matrix: Water

Analysis Batch: 115333

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	0.04943		mg/L		99	75 - 125
Bromobenzene	0.0500	0.04857		mg/L		97	75 - 125
Bromochloromethane	0.0500	0.04868		mg/L		97	60 - 140
Bromodichloromethane	0.0500	0.04879		mg/L		98	75 - 125
Bromoform	0.0500	0.05003		mg/L		100	70 - 130
Bromomethane	0.0500	0.05276		mg/L		106	60 - 140
2-Butanone	0.250	0.2317		mg/L		93	60 - 140
Carbon tetrachloride	0.0500	0.04833		mg/L		97	70 - 130
Chlorobenzene	0.0500	0.04869		mg/L		97	65 - 135
Chloroethane	0.0500	0.04806		mg/L		96	60 - 140
Chloroform	0.0500	0.04914		mg/L		98	70 - 121
Chloromethane	0.0500	0.04871		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.04881		mg/L		98	73 - 125
4-Chlorotoluene	0.0500	0.04868		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04808		mg/L		96	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04985		mg/L		100	74 - 125
Dibromochloromethane	0.0500	0.04938		mg/L		99	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05211		mg/L		104	59 - 125
1,2-Dibromoethane	0.0500	0.04895		mg/L		98	73 - 125
1,2-Dichlorobenzene	0.0500	0.04834		mg/L		97	75 - 125
1,3-Dichlorobenzene	0.0500	0.04843		mg/L		97	75 - 125
1,4-Dichlorobenzene	0.0500	0.04839		mg/L		97	75 - 125
Dichlorodifluoromethane	0.0500	0.04305		mg/L		86	50 - 150

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-115333/1011				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 115333							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04946		mg/L		99	70 - 130
1,2-Dichloroethane	0.0500	0.04890		mg/L		98	72 - 130
1,1-Dichloroethene	0.0500	0.04752		mg/L		95	50 - 150
1,2-Dichloropropane	0.0500	0.04925		mg/L		99	74 - 125
1,3-Dichloropropane	0.0500	0.04869		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.04695		mg/L		94	75 - 125
1,1-Dichloropropene	0.0500	0.04885		mg/L		98	75 - 125
Ethylbenzene	0.0500	0.04965		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.04602		mg/L		92	75 - 125
Isopropylbenzene	0.0500	0.04947		mg/L		99	75 - 125
Methylene Chloride	0.0500	0.04598		mg/L		92	71 - 125
m,p-Xylenes	0.0500	0.04947		mg/L		99	75 - 125
MTBE	0.0500	0.04982		mg/L		100	65 - 135
Naphthalene	0.0500	0.05048		mg/L		101	70 - 130
n-Butylbenzene	0.0500	0.04894		mg/L		98	75 - 125
N-Propylbenzene	0.0500	0.04883		mg/L		98	75 - 125
o-Xylene	0.0500	0.04983		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04962		mg/L		99	75 - 125
sec-Butylbenzene	0.0500	0.04884		mg/L		98	75 - 125
Styrene	0.0500	0.05047		mg/L		101	75 - 125
tert-Butylbenzene	0.0500	0.04902		mg/L		98	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04942		mg/L		99	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04906		mg/L		98	74 - 125
Tetrachloroethene	0.0500	0.04826		mg/L		97	71 - 125
Toluene	0.0500	0.04916		mg/L		98	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04950		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05001		mg/L		100	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04827		mg/L		97	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04853		mg/L		97	75 - 135
1,1,1-Trichloroethane	0.0500	0.04902		mg/L		98	70 - 130
1,1,2-Trichloroethane	0.0500	0.04951		mg/L		99	70 - 130
Trichloroethene	0.0500	0.04997		mg/L		100	75 - 135
Trichlorofluoromethane	0.0500	0.04592		mg/L		92	60 - 140
1,2,3-Trichloropropane	0.0500	0.04990		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04910		mg/L		98	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04905		mg/L		98	60 - 140
Vinyl chloride	0.0500	0.04822		mg/L		96	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		74 - 124				
Dibromofluoromethane (Surr)	100		75 - 131				
1,2-Dichloroethane-d4 (Surr)	97		63 - 144				
Toluene-d8 (Surr)	99		80 - 120				

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-115333/12

Matrix: Water

Analysis Batch: 115333

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.04918		mg/L		98	75 - 125	0	25
Bromobenzene	0.0500	0.04888		mg/L		98	75 - 125	1	25
Bromochloromethane	0.0500	0.04970		mg/L		99	60 - 140	2	25
Bromodichloromethane	0.0500	0.04912		mg/L		98	75 - 125	1	25
Bromoform	0.0500	0.05071		mg/L		101	70 - 130	1	25
Bromomethane	0.0500	0.05487		mg/L		110	60 - 140	4	25
2-Butanone	0.250	0.2361		mg/L		94	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04913		mg/L		98	70 - 130	2	25
Chlorobenzene	0.0500	0.04931		mg/L		99	65 - 135	1	25
Chloroethane	0.0500	0.04828		mg/L		97	60 - 140	0	25
Chloroform	0.0500	0.04972		mg/L		99	70 - 121	1	25
Chloromethane	0.0500	0.05002		mg/L		100	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04894		mg/L		98	73 - 125	0	25
4-Chlorotoluene	0.0500	0.04848		mg/L		97	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04780		mg/L		96	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.04983		mg/L		100	74 - 125	0	25
Dibromochloromethane	0.0500	0.05005		mg/L		100	73 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05343		mg/L		107	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.04928		mg/L		99	73 - 125	1	25
1,2-Dichlorobenzene	0.0500	0.04881		mg/L		98	75 - 125	1	25
1,3-Dichlorobenzene	0.0500	0.04878		mg/L		98	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.04834		mg/L		97	75 - 125	0	25
Dichlorodifluoromethane	0.0500	0.04338		mg/L		87	50 - 150	1	25
1,1-Dichloroethane	0.0500	0.04672		mg/L		93	70 - 130	6	25
1,2-Dichloroethane	0.0500	0.04895		mg/L		98	72 - 130	0	25
1,1-Dichloroethene	0.0500	0.04784		mg/L		96	50 - 150	1	25
1,2-Dichloropropane	0.0500	0.04912		mg/L		98	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.04901		mg/L		98	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04704		mg/L		94	75 - 125	0	25
1,1-Dichloropropene	0.0500	0.04850		mg/L		97	75 - 125	1	25
Ethylbenzene	0.0500	0.04963		mg/L		99	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.04796		mg/L		96	75 - 125	4	25
Isopropylbenzene	0.0500	0.05023		mg/L		100	75 - 125	2	25
Methylene Chloride	0.0500	0.04562		mg/L		91	71 - 125	1	25
m,p-Xylenes	0.0500	0.04934		mg/L		99	75 - 125	0	25
MTBE	0.0500	0.04968		mg/L		99	65 - 135	0	25
Naphthalene	0.0500	0.05155		mg/L		103	70 - 130	2	25
n-Butylbenzene	0.0500	0.04915		mg/L		98	75 - 125	0	25
N-Propylbenzene	0.0500	0.04922		mg/L		98	75 - 125	1	25
o-Xylene	0.0500	0.05012		mg/L		100	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04969		mg/L		99	75 - 125	0	25
sec-Butylbenzene	0.0500	0.04907		mg/L		98	75 - 125	0	25
Styrene	0.0500	0.05093		mg/L		102	75 - 125	1	25
tert-Butylbenzene	0.0500	0.04953		mg/L		99	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05033		mg/L		101	72 - 125	2	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04871		mg/L		97	74 - 125	1	25
Tetrachloroethene	0.0500	0.04778		mg/L		96	71 - 125	1	25
Toluene	0.0500	0.04909		mg/L		98	70 - 130	0	25

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-115333/12

Matrix: Water

Analysis Batch: 115333

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
trans-1,2-Dichloroethene	0.0500	0.04859		mg/L		97	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05000		mg/L		100	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.04887		mg/L		98	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.04893		mg/L		98	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.04883		mg/L		98	70 - 130	0	25
1,1,2-Trichloroethane	0.0500	0.04984		mg/L		100	70 - 130	1	25
Trichloroethene	0.0500	0.04932		mg/L		99	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.04533		mg/L		91	60 - 140	1	25
1,2,3-Trichloropropane	0.0500	0.05062		mg/L		101	75 - 125	1	25
1,2,4-Trimethylbenzene	0.0500	0.04940		mg/L		99	75 - 125	1	25
1,3,5-Trimethylbenzene	0.0500	0.04931		mg/L		99	60 - 140	1	25
Vinyl chloride	0.0500	0.04904		mg/L		98	60 - 140	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-115190/3

Matrix: Water

Analysis Batch: 115190

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			08/01/23 14:34	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			08/01/23 14:34	1

Lab Sample ID: LCS 860-115190/4

Matrix: Water

Analysis Batch: 115190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.22		mg/L		102	80 - 120
Nitrite as N	10.0	9.902		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-115190/5

Matrix: Water

Analysis Batch: 115190

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
Nitrate as N	10.0	10.16		mg/L		102	80 - 120	1	20
Nitrite as N	10.0	9.853		mg/L		99	80 - 120	1	20

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-115190/6

Matrix: Water

Analysis Batch: 115190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							50 - 150	50 - 150
Nitrate as N	0.100	0.1329		mg/L		133		
Nitrite as N	0.100	0.1038		mg/L		104		

Lab Sample ID: MB 860-115626/27

Matrix: Water

Analysis Batch: 115626

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed		Dil Fac
	Result	Qualifier							
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			08/03/23 23:54		1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			08/03/23 23:54		1

Lab Sample ID: LCS 860-115626/28

Matrix: Water

Analysis Batch: 115626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							80 - 120	80 - 120
Nitrate as N	10.0	9.260		mg/L		93		
Nitrite as N	10.0	9.417		mg/L		94		

Lab Sample ID: LCSD 860-115626/29

Matrix: Water

Analysis Batch: 115626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
							80 - 120	80 - 120	RPD	Limit
Nitrate as N	10.0	9.488		mg/L		95			2	20
Nitrite as N	10.0	9.606		mg/L		96			2	20

Lab Sample ID: LLCS 860-115626/6

Matrix: Water

Analysis Batch: 115626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							50 - 150	50 - 150
Nitrate as N	0.100	0.1505		mg/L		150		
Nitrite as N	0.100	0.06596	J	mg/L		66		

Lab Sample ID: MB 860-116104/3

Matrix: Water

Analysis Batch: 116104

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			08/07/23 18:40	1
Chloride	<0.250	U	0.500	0.250 mg/L			08/07/23 18:40	1
Fluoride	<0.100	U	0.500	0.100 mg/L			08/07/23 18:40	1
Sulfate	<0.200	U	0.500	0.200 mg/L			08/07/23 18:40	1

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-116104/4

Matrix: Water

Analysis Batch: 116104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	10.0	9.912		mg/L		99	90 - 110		
Chloride	10.0	9.922		mg/L		99	90 - 110		
Fluoride	10.0	10.30		mg/L		103	90 - 110		
Sulfate	10.0	9.845		mg/L		98	90 - 110		

Lab Sample ID: LCSD 860-116104/5

Matrix: Water

Analysis Batch: 116104

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
Bromide	10.0	9.930		mg/L		99	90 - 110	0	20
Chloride	10.0	9.948		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.38		mg/L		104	90 - 110	1	20
Sulfate	10.0	9.889		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-116104/7

Matrix: Water

Analysis Batch: 116104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	0.500	0.4658	J	mg/L		93	50 - 150		
Chloride	0.500	0.5170		mg/L		103	50 - 150		
Fluoride	0.500	0.5309		mg/L		106	50 - 150		
Sulfate	0.500	0.4496	J	mg/L		90	50 - 150		

Lab Sample ID: MB 860-116268/3

Matrix: Water

Analysis Batch: 116268

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			08/08/23 11:46	1
Chloride	<0.250	U	0.500	0.250 mg/L			08/08/23 11:46	1
Fluoride	<0.100	U	0.500	0.100 mg/L			08/08/23 11:46	1
Sulfate	<0.200	U	0.500	0.200 mg/L			08/08/23 11:46	1

Lab Sample ID: LCS 860-116268/4

Matrix: Water

Analysis Batch: 116268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	10.0	9.903		mg/L		99	90 - 110		
Chloride	10.0	9.973		mg/L		100	90 - 110		
Fluoride	10.0	10.32		mg/L		103	90 - 110		
Sulfate	10.0	9.928		mg/L		99	90 - 110		

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QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-116268/5
Matrix: Water
Analysis Batch: 116268

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier			Limits			
Bromide	10.0	9.859		mg/L		99	90 - 110	0	20
Chloride	10.0	9.948		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.36		mg/L		104	90 - 110	0	20
Sulfate	10.0	9.970		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-116268/7
Matrix: Water
Analysis Batch: 116268

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

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier			Limits	
Bromide	0.500	0.4389	J	mg/L		88	50 - 150
Chloride	0.500	0.4831	J	mg/L		97	50 - 150
Fluoride	0.500	0.4835	J	mg/L		97	50 - 150
Sulfate	0.500	0.4666	J	mg/L		93	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-115526/1-A
Matrix: Water
Analysis Batch: 115705

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 115526

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.115	U	0.200	0.115 mg/L		08/03/23 09:30	08/03/23 15:51	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		08/03/23 09:30	08/03/23 15:51	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		08/03/23 09:30	08/03/23 15:51	1
Sodium	<0.152	U	0.500	0.152 mg/L		08/03/23 09:30	08/03/23 15:51	1
SiO2	<0.471	U	1.07	0.471 mg/L		08/03/23 09:30	08/03/23 15:51	1

Lab Sample ID: LCS 860-115526/2-A
Matrix: Water
Analysis Batch: 115705

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 115526

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result				Qualifier	Limits
Calcium	25.0	24.10		mg/L		96	85 - 115
Magnesium	25.0	23.60		mg/L		94	85 - 115
Potassium	10.0	10.20		mg/L		102	85 - 115
Sodium	25.0	25.40		mg/L		102	85 - 115
SiO2	21.4	22.47		mg/L		105	85 - 115

Lab Sample ID: LCSD 860-115526/3-A

Matrix: Water

Analysis Batch: 115705

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 115526

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		
Calcium	25.0	23.90		mg/L		96	85 - 115	1	20
Magnesium	25.0	23.60		mg/L		94	85 - 115	0	20
Potassium	10.0	9.980		mg/L		100	85 - 115	2	20
Sodium	25.0	25.40		mg/L		102	85 - 115	0	20
SiO2	21.4	22.26		mg/L		104	85 - 115	1	20

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LLCS 860-115526/4-A

Matrix: Water

Analysis Batch: 115705

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 115526

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	0.200	0.2190		mg/L		110	50 - 150	
Magnesium	0.200	0.2190		mg/L		110	50 - 150	
Potassium	0.500	0.4980	J	mg/L		100	50 - 150	
Sodium	0.500	0.6380		mg/L		128	50 - 150	
SiO2	1.07	1.164		mg/L		109	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-115631/3

Matrix: Water

Analysis Batch: 115631

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	mg/L			08/03/23 11:09	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			08/03/23 11:09	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			08/03/23 11:09	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			08/03/23 11:09	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			08/03/23 11:09	1

Lab Sample ID: LCS 860-115631/4

Matrix: Water

Analysis Batch: 115631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Alkalinity	250	243.7		mg/L		97	85 - 115	

Lab Sample ID: LCSD 860-115631/5

Matrix: Water

Analysis Batch: 115631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Alkalinity	250	247.6		mg/L		99	85 - 115	2		20

Lab Sample ID: 880-31467-1 DU

Matrix: Water

Analysis Batch: 115631

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Sample		DU DU	Unit	D	RPD	RPD	
	Result	Qualifier					Limit	
Alkalinity	445		443.7	mg/L		0.3	20	
Bicarbonate Alkalinity as CaCO3	445		443.7	mg/L		0.3	20	
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	mg/L		NC	20	
Hydroxide Alkalinity	<4.00	U	<4.00	mg/L		NC	20	
Phenolphthalein Alkalinity	<4.00	U	<4.00	mg/L		NC	20	

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-115429/1 Matrix: Water Analysis Batch: 115429										Client Sample ID: Method Blank Prep Type: Total/NA	
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			08/02/23 16:15	1			

Lab Sample ID: LCS 860-115429/2 Matrix: Water Analysis Batch: 115429										Client Sample ID: Lab Control Sample Prep Type: Total/NA	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1006		mg/L		101	80 - 120		

Lab Sample ID: LCSD 860-115429/3 Matrix: Water Analysis Batch: 115429										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
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-115429/4 Matrix: Water Analysis Batch: 115429										Client Sample ID: Lab Control Sample Prep Type: Total/NA	
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	5.000		mg/L		100	50 - 150		

Lab Sample ID: 880-31467-1 DU Matrix: Water Analysis Batch: 115429										Client Sample ID: Levey Well Prep Type: Total/NA	
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1100			1104		mg/L				0.2	10

QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 115333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total/NA	Water	8260C	
MB 860-115333/17	Method Blank	Total/NA	Water	8260C	
LCS 860-115333/1011	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-115333/12	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 115190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total/NA	Water	300.0	
MB 860-115190/3	Method Blank	Total/NA	Water	300.0	
LCS 860-115190/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-115190/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-115190/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 115626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-115626/27	Method Blank	Total/NA	Water	300.0	
LCS 860-115626/28	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-115626/29	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-115626/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 116104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total/NA	Water	300.0	
MB 860-116104/3	Method Blank	Total/NA	Water	300.0	
LCS 860-116104/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-116104/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-116104/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 116268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1 - RA	Levey Well	Total/NA	Water	300.0	
MB 860-116268/3	Method Blank	Total/NA	Water	300.0	
LCS 860-116268/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-116268/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-116268/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 115526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-115526/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-115526/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-115526/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-115526/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 115705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	115526
880-31467-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	115526

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QC Association Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 115705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-115526/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	115526
LCS 860-115526/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	115526
LCSD 860-115526/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	115526
LLCS 860-115526/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	115526

General Chemistry

Analysis Batch: 114826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 115429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-115429/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-115429/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-115429/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-115429/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-31467-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 115575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 115631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31467-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-115631/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-115631/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-115631/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-31467-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-31467-1

Date Collected: 07/31/23 14:52

Matrix: Water

Date Received: 08/01/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	115333	A1S	EET HOU	08/02/23 21:46
Total/NA	Analysis	300.0		1	115190	RBNS	EET HOU	08/02/23 11:10
Total/NA	Analysis	300.0		1	116104	WP	EET HOU	08/07/23 22:35
Total/NA	Analysis	300.0	RA	1	116268	AK1	EET HOU	08/08/23 12:35
Total Recoverable	Prep	200.7			115526	MD	EET HOU	08/03/23 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	115705	JDM	EET HOU	08/03/23 16:55
Total Recoverable	Prep	200.7			115526	MD	EET HOU	08/03/23 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	115705	JDM	EET HOU	08/03/23 17:27
Total/NA	Analysis	SM 1030E		1	114826	MC	EET HOU	08/07/23 10:00
Total/NA	Analysis	SM 2320B		1	115631	TL	EET HOU	08/03/23 13:09
Total/NA	Analysis	SM 2540C		1	115429	OH	EET HOU	08/02/23 16:15
Total/NA	Analysis	SM 4500 H+ B		1	115575	TL	EET HOU	08/03/23 13:15

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 H+ B		Water	Temperature

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- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
200.7 Rev 4.4	Metals (ICP)	EPA	EET HOU
SM 1030E	Cation Anion Balance	SM	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
200.7	Preparation, Total Recoverable Metals	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-31467-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31467-1	Levey Well	Water	07/31/23 14:52	08/01/23 08:15

- 1
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- 14



Chain of Custody

Houston TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa FL (813-620-2000)



880-31487 Chain of Custody

Project Manager	Beaux Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address	601 Merenfeld #400	Address	
City, State ZIP	Midland TX 79701	City, State ZIP	
Phone	432-230-3344	Email	bjenning@ensolum.com
Project Name		Levey Well	Hobbs NM
Project Number		03B1417001	
P.O. Number		03B1417001	
Sampler's Name		Shane Diller	
Turn Around		Routine ☐	
Rush 24 hr			
Due Date			

SAMPLE RECEIPT		Temp Blank	Yes ☐	No ☒	Wet Ice	Yes ☐	No ☒	Thermometer ID		478
Temperature (°C):		0.300								
Received Intact:		Yes ☒	No ☐							
Cooler Custody Seals:		Yes ☐	No ☒							
Sample Custody Seals:		Yes ☐	No ☒							
Total Containers										

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs	Anions: F, Cl, SO4, B	Cations: Ca, K, Mg, Na, Si	pH	Alkalinity	TDS	Work Order Notes
Levey Well	GW	7-31-23	1452	—	7	X	X	X	X	X	X	
TAT starts the day received by the lab if received by 4:30pm												
Sample Comments												
24hr												

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 SiO2 Na Sr Ti 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 Ti U 1631 / 245.1 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
		8/17/23			
		8/21/25			

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-31467-1

SDG Number: Hobbs NM

Login Number: 31467

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: 880-31467-1

SDG Number: Hobbs NM

Login Number: 31467

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 08/02/23 10:22 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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 7/13/2023 5:14:54 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-30375-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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
7/13/2023 5:14:54 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Laboratory Job ID: 880-30375-1

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Qualifiers

GC/MS 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.
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.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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)

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Job ID: 880-30375-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-30375-1

Receipt

The samples were received on 7/6/2023 9:00 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 1.4°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-111231 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-111231/2).

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-111461 recovered above the upper control limit for 2,2-Dichloropropane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-111461/2).

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 860-111461 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-111461 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFMS: The following samples were analyzed outside of analytical holding time due to <EXPLANATION_REQUIRED>: MW-1 (880-30375-1) and MW-2 (880-30375-2).

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-30375-1

Date Collected: 07/05/23 13:50

Matrix: Water

Date Received: 07/06/23 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/07/23 19:21	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/07/23 19:21	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/07/23 19:21	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/07/23 19:21	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/07/23 19:21	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/07/23 19:21	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/07/23 19:21	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/07/23 19:21	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/07/23 19:21	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/07/23 19:21	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/07/23 19:21	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/07/23 19:21	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/07/23 19:21	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/07/23 19:21	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/07/23 19:21	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/07/23 19:21	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/07/23 19:21	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/07/23 19:21	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/07/23 19:21	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/07/23 19:21	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/07/23 19:21	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/07/23 19:21	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/07/23 19:21	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/07/23 19:21	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/07/23 19:21	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/07/23 19:21	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/07/23 19:21	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/07/23 19:21	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/07/23 19:21	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/07/23 19:21	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/07/23 19:21	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/07/23 19:21	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/07/23 19:21	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/07/23 19:21	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/07/23 19:21	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/07/23 19:21	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/07/23 19:21	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/07/23 19:21	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/07/23 19:21	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/07/23 19:21	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/07/23 19:21	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/07/23 19:21	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/07/23 19:21	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/07/23 19:21	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/07/23 19:21	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/07/23 19:21	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/07/23 19:21	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/07/23 19:21	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/07/23 19:21	1

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Client Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-30375-1

Date Collected: 07/05/23 13:50

Matrix: Water

Date Received: 07/06/23 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/07/23 19:21	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/07/23 19:21	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/07/23 19:21	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/07/23 19:21	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/07/23 19:21	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/07/23 19:21	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/07/23 19:21	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/07/23 19:21	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/07/23 19:21	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/07/23 19:21	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/07/23 19:21	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/07/23 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		07/07/23 19:21	1
Dibromofluoromethane (Surr)	97		75 - 131		07/07/23 19:21	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		07/07/23 19:21	1
Toluene-d8 (Surr)	100		80 - 120		07/07/23 19:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.03	U	5.21	1.03 mg/L			07/12/23 10:00	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	<1.03	U	5.21	1.03 mg/L		07/10/23 12:51	07/10/23 19:31	1
Diesel Range Organics (Over C10-C28)	<1.03	U	5.21	1.03 mg/L		07/10/23 12:51	07/10/23 19:31	1
Oil Range Organics (Over C28-C36)	<0.993	U	5.21	0.993 mg/L		07/10/23 12:51	07/10/23 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135			07/10/23 12:51	07/10/23 19:31	1
o-Terphenyl	107		70 - 135			07/10/23 12:51	07/10/23 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		0.500	0.250 mg/L			07/08/23 04:30	1
Nitrate as N	0.0657	J H	0.100	0.0391 mg/L			07/08/23 04:30	1
Fluoride	0.274	J	0.500	0.100 mg/L			07/08/23 04:30	1
Nitrite as N	0.904	H	0.100	0.0293 mg/L			07/08/23 04:30	1
Sulfate	57.9		0.500	0.200 mg/L			07/08/23 04:30	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	665		4.00	4.00 mg/L			07/10/23 13:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	665		4.00	4.00 mg/L			07/10/23 13:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/10/23 13:48	1
Carbon dioxide (SM 4500 CO2 D)	668			mg/L			07/13/23 18:00	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Client Sample ID: MW-1
Date Collected: 07/05/23 13:50
Date Received: 07/06/23 09:00

Lab Sample ID: 880-30375-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	83.7			mg/L			07/13/23 18:00	1	
pH (SM 4500 H+ B)	7.2	HF		SU			07/10/23 16:04	1	
Temperature (SM 4500 H+ B)	20.5	HF		Degrees C			07/10/23 16:04	1	

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Sulfide, Dissolved (SM 4500 S2 D)	<0.0400	U	0.100	0.0400 mg/L			07/10/23 12:56	1	

Client Sample ID: MW-2
Date Collected: 07/05/23 14:45
Date Received: 07/06/23 09:00

Lab Sample ID: 880-30375-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	0.0146		0.00100	0.000460 mg/L			07/10/23 12:16	1	
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/10/23 12:16	1	
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/10/23 12:16	1	
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/10/23 12:16	1	
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/10/23 12:16	1	
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/10/23 12:16	1	
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/10/23 12:16	1	
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/10/23 12:16	1	
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/10/23 12:16	1	
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/10/23 12:16	1	
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/10/23 12:16	1	
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/10/23 12:16	1	
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/10/23 12:16	1	
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/10/23 12:16	1	
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/10/23 12:16	1	
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/10/23 12:16	1	
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/10/23 12:16	1	
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/10/23 12:16	1	
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/10/23 12:16	1	
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/10/23 12:16	1	
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/10/23 12:16	1	
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/10/23 12:16	1	
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/10/23 12:16	1	
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/10/23 12:16	1	
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/10/23 12:16	1	
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/10/23 12:16	1	
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/10/23 12:16	1	
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/10/23 12:16	1	
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/10/23 12:16	1	
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/10/23 12:16	1	
Ethylbenzene	0.0159		0.00100	0.000411 mg/L			07/10/23 12:16	1	
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/10/23 12:16	1	
Isopropylbenzene	0.00819		0.00100	0.000613 mg/L			07/10/23 12:16	1	
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/10/23 12:16	1	
m,p-Xylenes	0.0469		0.0100	0.00124 mg/L			07/10/23 12:16	1	

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-30375-2

Date Collected: 07/05/23 14:45

Matrix: Water

Date Received: 07/06/23 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/10/23 12:16	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/10/23 12:16	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/10/23 12:16	1
N-Propylbenzene	0.00231		0.00100	0.000498 mg/L			07/10/23 12:16	1
o-Xylene	0.0122		0.00100	0.000551 mg/L			07/10/23 12:16	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/10/23 12:16	1
sec-Butylbenzene	0.000973	J	0.00100	0.000468 mg/L			07/10/23 12:16	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/10/23 12:16	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/10/23 12:16	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/10/23 12:16	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/10/23 12:16	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/10/23 12:16	1
Toluene	0.00280		0.00100	0.000475 mg/L			07/10/23 12:16	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/10/23 12:16	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/10/23 12:16	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/10/23 12:16	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/10/23 12:16	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/10/23 12:16	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/10/23 12:16	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/10/23 12:16	1
Trichlorofluoromethane	<0.000638	U **	0.00100	0.000638 mg/L			07/10/23 12:16	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/10/23 12:16	1
1,2,4-Trimethylbenzene	0.0255		0.00100	0.000417 mg/L			07/10/23 12:16	1
1,3,5-Trimethylbenzene	0.00670		0.00100	0.000456 mg/L			07/10/23 12:16	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/10/23 12:16	1
Xylenes, Total	0.0591		0.0100	0.00124 mg/L			07/10/23 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		07/10/23 12:16	1
Dibromofluoromethane (Surr)	97		75 - 131		07/10/23 12:16	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		07/10/23 12:16	1
Toluene-d8 (Surr)	97		80 - 120		07/10/23 12:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.24	J	4.92	0.972 mg/L			07/12/23 10:00	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	1.24	J	4.92	0.972 mg/L		07/10/23 12:52	07/10/23 19:53	1
Diesel Range Organics (Over C10-C28)	<0.972	U	4.92	0.972 mg/L		07/10/23 12:52	07/10/23 19:53	1
Oil Range Organics (Over C28-C36)	<0.938	U	4.92	0.938 mg/L		07/10/23 12:52	07/10/23 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135			07/10/23 12:52	07/10/23 19:53	1
o-Terphenyl	100		70 - 135			07/10/23 12:52	07/10/23 19:53	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Client Sample ID: MW-2
Date Collected: 07/05/23 14:45
Date Received: 07/06/23 09:00

Lab Sample ID: 880-30375-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.5		0.500	0.250	mg/L			07/08/23 04:46	1
Nitrate as N	0.135	H	0.100	0.0391	mg/L			07/08/23 04:46	1
Fluoride	<0.100	U	0.500	0.100	mg/L			07/08/23 04:46	1
Nitrite as N	4.20	H	0.100	0.0293	mg/L			07/08/23 04:46	1
Sulfate	87.1		0.500	0.200	mg/L			07/08/23 04:46	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1290		4.00	4.00	mg/L			07/10/23 14:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1290		4.00	4.00	mg/L			07/10/23 14:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/10/23 14:16	1
Carbon dioxide (SM 4500 CO2 D)	2170				mg/L			07/13/23 18:00	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1030				mg/L			07/13/23 18:00	1
pH (SM 4500 H+ B)	6.4	HF			SU			07/10/23 16:06	1
Temperature (SM 4500 H+ B)	21.4	HF			Degrees C			07/10/23 16:06	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-120)
880-30375-1	MW-1	97	97	101	100
880-30375-2	MW-2	96	97	102	97
LCS 860-111231/3	Lab Control Sample	95	96	96	99
LCS 860-111461/3	Lab Control Sample	96	97	96	98
LCSD 860-111231/4	Lab Control Sample Dup	94	95	95	99
LCSD 860-111461/4	Lab Control Sample Dup	95	97	95	98
MB 860-111231/13	Method Blank	96	98	103	100
MB 860-111461/10	Method Blank	95	99	100	99
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (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	OTPH1
		(70-135)	(70-135)
880-30375-1	MW-1	108	107
880-30375-2	MW-2	100	100
LCS 860-111565/2-A	Lab Control Sample	123	113
LCSD 860-111565/3-A	Lab Control Sample Dup	116	107
MB 860-111565/1-A	Method Blank	121	122
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-111231/13

Matrix: Water

Analysis Batch: 111231

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/07/23 13:12	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/07/23 13:12	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/07/23 13:12	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/07/23 13:12	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/07/23 13:12	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/07/23 13:12	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/07/23 13:12	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/07/23 13:12	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/07/23 13:12	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/07/23 13:12	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/07/23 13:12	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/07/23 13:12	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/07/23 13:12	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/07/23 13:12	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/07/23 13:12	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/07/23 13:12	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/07/23 13:12	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/07/23 13:12	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/07/23 13:12	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/07/23 13:12	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/07/23 13:12	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/07/23 13:12	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/07/23 13:12	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/07/23 13:12	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/07/23 13:12	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/07/23 13:12	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/07/23 13:12	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/07/23 13:12	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/07/23 13:12	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/07/23 13:12	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/07/23 13:12	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/07/23 13:12	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/07/23 13:12	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/07/23 13:12	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/07/23 13:12	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/07/23 13:12	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/07/23 13:12	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/07/23 13:12	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/07/23 13:12	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/07/23 13:12	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/07/23 13:12	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/07/23 13:12	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/07/23 13:12	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/07/23 13:12	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/07/23 13:12	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/07/23 13:12	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/07/23 13:12	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/07/23 13:12	1

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QC Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-111231/13

Matrix: Water

Analysis Batch: 111231

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/07/23 13:12	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/07/23 13:12	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/07/23 13:12	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/07/23 13:12	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/07/23 13:12	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/07/23 13:12	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/07/23 13:12	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/07/23 13:12	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/07/23 13:12	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/07/23 13:12	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/07/23 13:12	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/07/23 13:12	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/07/23 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124		07/07/23 13:12	1
Dibromofluoromethane (Surr)	98		75 - 131		07/07/23 13:12	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		07/07/23 13:12	1
Toluene-d8 (Surr)	100		80 - 120		07/07/23 13:12	1

Lab Sample ID: LCS 860-111231/3

Matrix: Water

Analysis Batch: 111231

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	0.04780		mg/L		96	75 - 125
Bromobenzene	0.0500	0.05286		mg/L		106	75 - 125
Bromochloromethane	0.0500	0.05247		mg/L		105	60 - 140
Bromodichloromethane	0.0500	0.04977		mg/L		100	75 - 125
Bromoform	0.0500	0.05266		mg/L		105	70 - 130
Bromomethane	0.0500	0.06339		mg/L		127	60 - 140
2-Butanone	0.250	0.1851		mg/L		74	60 - 140
Carbon tetrachloride	0.0500	0.05115		mg/L		102	70 - 130
Chlorobenzene	0.0500	0.05020		mg/L		100	65 - 135
Chloroethane	0.0500	0.04587		mg/L		92	60 - 140
Chloroform	0.0500	0.04818		mg/L		96	70 - 121
Chloromethane	0.0500	0.04915		mg/L		98	60 - 140
2-Chlorotoluene	0.0500	0.05007		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.04958		mg/L		99	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04436		mg/L		89	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04792		mg/L		96	74 - 125
Dibromochloromethane	0.0500	0.05199		mg/L		104	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04454		mg/L		89	59 - 125
1,2-Dibromoethane	0.0500	0.04985		mg/L		100	73 - 125
1,2-Dichlorobenzene	0.0500	0.05154		mg/L		103	75 - 125
1,3-Dichlorobenzene	0.0500	0.05222		mg/L		104	75 - 125
1,4-Dichlorobenzene	0.0500	0.05219		mg/L		104	75 - 125
Dichlorodifluoromethane	0.0500	0.07364		mg/L		147	50 - 150

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

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

Lab Sample ID: LCS 860-111231/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 111231							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04450		mg/L		89	70 - 130
1,2-Dichloroethane	0.0500	0.05004		mg/L		100	72 - 130
1,1-Dichloroethene	0.0500	0.05405		mg/L		108	50 - 150
1,2-Dichloropropane	0.0500	0.04421		mg/L		88	74 - 125
1,3-Dichloropropane	0.0500	0.04698		mg/L		94	75 - 125
2,2-Dichloropropane	0.0500	0.05442		mg/L		109	75 - 125
1,1-Dichloropropene	0.0500	0.04792		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.04996		mg/L		100	75 - 125
Hexachlorobutadiene	0.0500	0.05882		mg/L		118	75 - 125
Isopropylbenzene	0.0500	0.05193		mg/L		104	75 - 125
Methylene Chloride	0.0500	0.05049		mg/L		101	71 - 125
m,p-Xylenes	0.0500	0.05081		mg/L		102	75 - 125
MTBE	0.0500	0.05066		mg/L		101	65 - 135
Naphthalene	0.0500	0.04965		mg/L		99	70 - 130
n-Butylbenzene	0.0500	0.04963		mg/L		99	75 - 125
N-Propylbenzene	0.0500	0.05042		mg/L		101	75 - 125
o-Xylene	0.0500	0.04987		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05186		mg/L		104	75 - 125
sec-Butylbenzene	0.0500	0.05094		mg/L		102	75 - 125
Styrene	0.0500	0.05014		mg/L		100	75 - 125
tert-Butylbenzene	0.0500	0.05188		mg/L		104	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05233		mg/L		105	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04460		mg/L		89	74 - 125
Tetrachloroethene	0.0500	0.05612		mg/L		112	71 - 125
Toluene	0.0500	0.04915		mg/L		98	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05618		mg/L		112	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04933		mg/L		99	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05284		mg/L		106	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05384		mg/L		108	75 - 135
1,1,1-Trichloroethane	0.0500	0.05192		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.04738		mg/L		95	70 - 130
Trichloroethene	0.0500	0.05325		mg/L		107	75 - 135
Trichlorofluoromethane	0.0500	0.06305		mg/L		126	60 - 140
1,2,3-Trichloropropane	0.0500	0.04360		mg/L		87	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05080		mg/L		102	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05104		mg/L		102	60 - 140
Vinyl chloride	0.0500	0.05720		mg/L		114	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	95		74 - 124				
Dibromofluoromethane (Surr)	96		75 - 131				
1,2-Dichloroethane-d4 (Surr)	96		63 - 144				
Toluene-d8 (Surr)	99		80 - 120				

QC Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-111231/4

Matrix: Water

Analysis Batch: 111231

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	0.04477		mg/L		90	75 - 125	7	25
Bromobenzene	0.0500	0.05068		mg/L		101	75 - 125	4	25
Bromochloromethane	0.0500	0.04947		mg/L		99	60 - 140	6	25
Bromodichloromethane	0.0500	0.04715		mg/L		94	75 - 125	5	25
Bromoform	0.0500	0.05014		mg/L		100	70 - 130	5	25
Bromomethane	0.0500	0.06143		mg/L		123	60 - 140	3	25
2-Butanone	0.250	0.1831		mg/L		73	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04764		mg/L		95	70 - 130	7	25
Chlorobenzene	0.0500	0.04750		mg/L		95	65 - 135	6	25
Chloroethane	0.0500	0.04481		mg/L		90	60 - 140	2	25
Chloroform	0.0500	0.04597		mg/L		92	70 - 121	5	25
Chloromethane	0.0500	0.04750		mg/L		95	60 - 140	3	25
2-Chlorotoluene	0.0500	0.04831		mg/L		97	73 - 125	4	25
4-Chlorotoluene	0.0500	0.04729		mg/L		95	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.04189		mg/L		84	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.04557		mg/L		91	74 - 125	5	25
Dibromochloromethane	0.0500	0.04942		mg/L		99	73 - 125	5	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04400		mg/L		88	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.04763		mg/L		95	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04981		mg/L		100	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.04991		mg/L		100	75 - 125	5	25
1,4-Dichlorobenzene	0.0500	0.05040		mg/L		101	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.07116		mg/L		142	50 - 150	3	25
1,1-Dichloroethane	0.0500	0.04223		mg/L		84	70 - 130	5	25
1,2-Dichloroethane	0.0500	0.04713		mg/L		94	72 - 130	6	25
1,1-Dichloroethene	0.0500	0.04937		mg/L		99	50 - 150	9	25
1,2-Dichloropropane	0.0500	0.04205		mg/L		84	74 - 125	5	25
1,3-Dichloropropane	0.0500	0.04463		mg/L		89	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.05101		mg/L		102	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04553		mg/L		91	75 - 125	5	25
Ethylbenzene	0.0500	0.04735		mg/L		95	75 - 125	5	25
Hexachlorobutadiene	0.0500	0.05687		mg/L		114	75 - 125	3	25
Isopropylbenzene	0.0500	0.04888		mg/L		98	75 - 125	6	25
Methylene Chloride	0.0500	0.04735		mg/L		95	71 - 125	6	25
m,p-Xylenes	0.0500	0.04805		mg/L		96	75 - 125	6	25
MTBE	0.0500	0.04753		mg/L		95	65 - 135	6	25
Naphthalene	0.0500	0.04852		mg/L		97	70 - 130	2	25
n-Butylbenzene	0.0500	0.04720		mg/L		94	75 - 125	5	25
N-Propylbenzene	0.0500	0.04726		mg/L		95	75 - 125	6	25
o-Xylene	0.0500	0.04748		mg/L		95	75 - 125	5	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04974		mg/L		99	75 - 125	4	25
sec-Butylbenzene	0.0500	0.04844		mg/L		97	75 - 125	5	25
Styrene	0.0500	0.04780		mg/L		96	75 - 125	5	25
tert-Butylbenzene	0.0500	0.04926		mg/L		99	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05013		mg/L		100	72 - 125	4	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.04313		mg/L		86	74 - 125	3	25
Tetrachloroethene	0.0500	0.05329		mg/L		107	71 - 125	5	25
Toluene	0.0500	0.04674		mg/L		93	70 - 130	5	25

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QC Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-111231/4

Matrix: Water

Analysis Batch: 111231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
trans-1,2-Dichloroethene	0.0500	0.05266		mg/L		105	75 - 125	6	25
trans-1,3-Dichloropropene	0.0500	0.04690		mg/L		94	66 - 125	5	25
1,2,3-Trichlorobenzene	0.0500	0.05138		mg/L		103	75 - 137	3	25
1,2,4-Trichlorobenzene	0.0500	0.05170		mg/L		103	75 - 135	4	25
1,1,1-Trichloroethane	0.0500	0.04928		mg/L		99	70 - 130	5	25
1,1,2-Trichloroethane	0.0500	0.04509		mg/L		90	70 - 130	5	25
Trichloroethene	0.0500	0.05088		mg/L		102	75 - 135	5	25
Trichlorofluoromethane	0.0500	0.06088		mg/L		122	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04180		mg/L		84	75 - 125	4	25
1,2,4-Trimethylbenzene	0.0500	0.04868		mg/L		97	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.04884		mg/L		98	60 - 140	4	25
Vinyl chloride	0.0500	0.05571		mg/L		111	60 - 140	3	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		74 - 124
Dibromofluoromethane (Surr)	95		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 860-111461/10

Matrix: Water

Analysis Batch: 111461

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.000460	U	0.00100	0.000460			07/10/23 10:32	1
Bromobenzene	<0.000665	U	0.00100	0.000665			07/10/23 10:32	1
Bromochloromethane	<0.000657	U	0.00100	0.000657			07/10/23 10:32	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552			07/10/23 10:32	1
Bromoform	<0.000633	U	0.00500	0.000633			07/10/23 10:32	1
Bromomethane	<0.00142	U	0.00500	0.00142			07/10/23 10:32	1
2-Butanone	<0.00828	U	0.0500	0.00828			07/10/23 10:32	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896			07/10/23 10:32	1
Chlorobenzene	<0.000530	U	0.00100	0.000530			07/10/23 10:32	1
Chloroethane	<0.00198	U	0.0100	0.00198			07/10/23 10:32	1
Chloroform	<0.000643	U	0.00100	0.000643			07/10/23 10:32	1
Chloromethane	<0.00204	U	0.0100	0.00204			07/10/23 10:32	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118			07/10/23 10:32	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472			07/10/23 10:32	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714			07/10/23 10:32	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107			07/10/23 10:32	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547			07/10/23 10:32	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127			07/10/23 10:32	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999			07/10/23 10:32	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509			07/10/23 10:32	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513			07/10/23 10:32	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513			07/10/23 10:32	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919			07/10/23 10:32	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635			07/10/23 10:32	1

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QC Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-111461/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 111461

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		07/10/23 10:32	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		07/10/23 10:32	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		07/10/23 10:32	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		07/10/23 10:32	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		07/10/23 10:32	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		07/10/23 10:32	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		07/10/23 10:32	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		07/10/23 10:32	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		07/10/23 10:32	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		07/10/23 10:32	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		07/10/23 10:32	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		07/10/23 10:32	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		07/10/23 10:32	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		07/10/23 10:32	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		07/10/23 10:32	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		07/10/23 10:32	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		07/10/23 10:32	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		07/10/23 10:32	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		07/10/23 10:32	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		07/10/23 10:32	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		07/10/23 10:32	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		07/10/23 10:32	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		07/10/23 10:32	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		07/10/23 10:32	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		07/10/23 10:32	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		07/10/23 10:32	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L		07/10/23 10:32	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		07/10/23 10:32	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L		07/10/23 10:32	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L		07/10/23 10:32	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L		07/10/23 10:32	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L		07/10/23 10:32	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L		07/10/23 10:32	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		07/10/23 10:32	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456	mg/L		07/10/23 10:32	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L		07/10/23 10:32	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		07/10/23 10:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		74 - 124		07/10/23 10:32	1
Dibromofluoromethane (Surr)	99		75 - 131		07/10/23 10:32	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		07/10/23 10:32	1
Toluene-d8 (Surr)	99		80 - 120		07/10/23 10:32	1

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QC Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-111461/3

Matrix: Water

Analysis Batch: 111461

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Benzene	0.0500	0.04720		mg/L		94	75 - 125
Bromobenzene	0.0500	0.05424		mg/L		108	75 - 125
Bromochloromethane	0.0500	0.05325		mg/L		107	60 - 140
Bromodichloromethane	0.0500	0.05016		mg/L		100	75 - 125
Bromoform	0.0500	0.05218		mg/L		104	70 - 130
Bromomethane	0.0500	0.05582		mg/L		112	60 - 140
2-Butanone	0.250	0.1777		mg/L		71	60 - 140
Carbon tetrachloride	0.0500	0.05301		mg/L		106	70 - 130
Chlorobenzene	0.0500	0.04994		mg/L		100	65 - 135
Chloroethane	0.0500	0.04601		mg/L		92	60 - 140
Chloroform	0.0500	0.04923		mg/L		98	70 - 121
Chloromethane	0.0500	0.04642		mg/L		93	60 - 140
2-Chlorotoluene	0.0500	0.05026		mg/L		101	73 - 125
4-Chlorotoluene	0.0500	0.05024		mg/L		100	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04500		mg/L		90	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04830		mg/L		97	74 - 125
Dibromochloromethane	0.0500	0.05225		mg/L		105	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04465		mg/L		89	59 - 125
1,2-Dibromoethane	0.0500	0.04938		mg/L		99	73 - 125
1,2-Dichlorobenzene	0.0500	0.05230		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05343		mg/L		107	75 - 125
1,4-Dichlorobenzene	0.0500	0.05342		mg/L		107	75 - 125
Dichlorodifluoromethane	0.0500	0.05705		mg/L		114	50 - 150
1,1-Dichloroethane	0.0500	0.04460		mg/L		89	70 - 130
1,2-Dichloroethane	0.0500	0.05081		mg/L		102	72 - 130
1,1-Dichloroethene	0.0500	0.05348		mg/L		107	50 - 150
1,2-Dichloropropane	0.0500	0.04387		mg/L		88	74 - 125
1,3-Dichloropropane	0.0500	0.04637		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.05726		mg/L		115	75 - 125
1,1-Dichloropropene	0.0500	0.04769		mg/L		95	75 - 125
Ethylbenzene	0.0500	0.04956		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05977		mg/L		120	75 - 125
Isopropylbenzene	0.0500	0.05175		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.05115		mg/L		102	71 - 125
m,p-Xylenes	0.0500	0.05101		mg/L		102	75 - 125
MTBE	0.0500	0.05235		mg/L		105	65 - 135
Naphthalene	0.0500	0.04931		mg/L		99	70 - 130
n-Butylbenzene	0.0500	0.05001		mg/L		100	75 - 125
N-Propylbenzene	0.0500	0.05010		mg/L		100	75 - 125
o-Xylene	0.0500	0.05008		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05234		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05136		mg/L		103	75 - 125
Styrene	0.0500	0.05022		mg/L		100	75 - 125
tert-Butylbenzene	0.0500	0.05251		mg/L		105	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05273		mg/L		105	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04424		mg/L		88	74 - 125
Tetrachloroethene	0.0500	0.05522		mg/L		110	71 - 125
Toluene	0.0500	0.04864		mg/L		97	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

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

Lab Sample ID: LCS 860-111461/3

Matrix: Water

Analysis Batch: 111461

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result				Qualifier	
trans-1,2-Dichloroethene	0.0500	0.05671		mg/L		113	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05057		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05290		mg/L		106	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05370		mg/L		107	75 - 135
1,1,1-Trichloroethane	0.0500	0.05273		mg/L		105	70 - 130
1,1,2-Trichloroethane	0.0500	0.04658		mg/L		93	70 - 130
Trichloroethene	0.0500	0.05297		mg/L		106	75 - 135
Trichlorofluoromethane	0.0500	0.06901		mg/L		138	60 - 140
1,2,3-Trichloropropane	0.0500	0.04320		mg/L		86	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05214		mg/L		104	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05185		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.05293		mg/L		106	60 - 140

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 860-111461/4

Matrix: Water

Analysis Batch: 111461

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.0500	0.04775		mg/L		96	75 - 125	1	25
Bromobenzene			0.0500	0.05369		mg/L		107	75 - 125	1	25
Bromochloromethane			0.0500	0.05369		mg/L		107	60 - 140	1	25
Bromodichloromethane			0.0500	0.05075		mg/L		102	75 - 125	1	25
Bromoform			0.0500	0.05305		mg/L		106	70 - 130	2	25
Bromomethane			0.0500	0.05781		mg/L		116	60 - 140	4	25
2-Butanone			0.250	0.1823		mg/L		73	60 - 140	3	25
Carbon tetrachloride			0.0500	0.05179		mg/L		104	70 - 130	2	25
Chlorobenzene			0.0500	0.05003		mg/L		100	65 - 135	0	25
Chloroethane			0.0500	0.04622		mg/L		92	60 - 140	0	25
Chloroform			0.0500	0.05039		mg/L		101	70 - 121	2	25
Chloromethane			0.0500	0.04694		mg/L		94	60 - 140	1	25
2-Chlorotoluene			0.0500	0.05086		mg/L		102	73 - 125	1	25
4-Chlorotoluene			0.0500	0.05028		mg/L		101	74 - 125	0	25
cis-1,2-Dichloroethene			0.0500	0.04515		mg/L		90	75 - 125	0	25
cis-1,3-Dichloropropene			0.0500	0.04894		mg/L		98	74 - 125	1	25
Dibromochloromethane			0.0500	0.05249		mg/L		105	73 - 125	0	25
1,2-Dibromo-3-Chloropropane			0.0500	0.04451		mg/L		89	59 - 125	0	25
1,2-Dibromoethane			0.0500	0.04992		mg/L		100	73 - 125	1	25
1,2-Dichlorobenzene			0.0500	0.05176		mg/L		104	75 - 125	1	25
1,3-Dichlorobenzene			0.0500	0.05293		mg/L		106	75 - 125	1	25
1,4-Dichlorobenzene			0.0500	0.05264		mg/L		105	75 - 125	1	25
Dichlorodifluoromethane			0.0500	0.05767		mg/L		115	50 - 150	1	25
1,1-Dichloroethane			0.0500	0.04551		mg/L		91	70 - 130	2	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

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

Lab Sample ID: LCSD 860-111461/4

Matrix: Water

Analysis Batch: 111461

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
1,2-Dichloroethane	0.0500	0.05116		mg/L		102	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.05465		mg/L		109	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04258		mg/L		85	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04669		mg/L		93	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05764		mg/L		115	75 - 125	1	25
1,1-Dichloropropene	0.0500	0.04875		mg/L		98	75 - 125	2	25
Ethylbenzene	0.0500	0.05004		mg/L		100	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05842		mg/L		117	75 - 125	2	25
Isopropylbenzene	0.0500	0.05190		mg/L		104	75 - 125	0	25
Methylene Chloride	0.0500	0.05231		mg/L		105	71 - 125	2	25
m,p-Xylenes	0.0500	0.05103		mg/L		102	75 - 125	0	25
MTBE	0.0500	0.05305		mg/L		106	65 - 135	1	25
Naphthalene	0.0500	0.04938		mg/L		99	70 - 130	0	25
n-Butylbenzene	0.0500	0.04937		mg/L		99	75 - 125	1	25
N-Propylbenzene	0.0500	0.04965		mg/L		99	75 - 125	1	25
o-Xylene	0.0500	0.05045		mg/L		101	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05206		mg/L		104	75 - 125	1	25
sec-Butylbenzene	0.0500	0.05055		mg/L		101	75 - 125	2	25
Styrene	0.0500	0.05019		mg/L		100	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05191		mg/L		104	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.05352		mg/L		107	72 - 125	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.04457		mg/L		89	74 - 125	1	25
Tetrachloroethene	0.0500	0.05571		mg/L		111	71 - 125	1	25
Toluene	0.0500	0.04939		mg/L		99	70 - 130	2	25
trans-1,2-Dichloroethene	0.0500	0.05732		mg/L		115	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.05057		mg/L		101	66 - 125	0	25
1,2,3-Trichlorobenzene	0.0500	0.05255		mg/L		105	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.05378		mg/L		108	75 - 135	0	25
1,1,1-Trichloroethane	0.0500	0.05396		mg/L		108	70 - 130	2	25
1,1,2-Trichloroethane	0.0500	0.04706		mg/L		94	70 - 130	1	25
Trichloroethene	0.0500	0.05389		mg/L		108	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.07036	*+	mg/L		141	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.04337		mg/L		87	75 - 125	0	25
1,2,4-Trimethylbenzene	0.0500	0.05195		mg/L		104	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.05164		mg/L		103	60 - 140	0	25
Vinyl chloride	0.0500	0.05440		mg/L		109	60 - 140	3	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
Toluene-d8 (Surr)	98		80 - 120

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

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

Lab Sample ID: MB 860-111565/1-A							Client Sample ID: Method Blank		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 111498							Prep Batch: 111565		
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		07/10/23 12:51	07/10/23 19:09	1	
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		07/10/23 12:51	07/10/23 19:09	1	
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		07/10/23 12:51	07/10/23 19:09	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	121		70 - 135			07/10/23 12:51	07/10/23 19:09	1	
o-Terphenyl	122		70 - 135			07/10/23 12:51	07/10/23 19:09	1	

Lab Sample ID: LCS 860-111565/2-A							Client Sample ID: Lab Control Sample		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 111498							Prep Batch: 111565		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	99.4	127.0		mg/L		128	70 - 135		
Diesel Range Organics (Over C10-C28)	99.6	97.82		mg/L		98	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	123		70 - 135						
o-Terphenyl	113		70 - 135						

Lab Sample ID: LCSD 860-111565/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 111498						Prep Batch: 111565					
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Gasoline Range Organics (GRO)-C6-C10			99.4	125.8		mg/L		127	70 - 135	1	35
Diesel Range Organics (Over C10-C28)			99.6	96.71		mg/L		97	70 - 135	1	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	116		70 - 135								
o-Terphenyl	107		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-111317/3							Client Sample ID: Method Blank		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 111317									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.250	U	0.500	0.250 mg/L			07/07/23 11:50	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			07/07/23 11:50	1	
Sulfate	<0.200	U	0.500	0.200 mg/L			07/07/23 11:50	1	

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QC Sample Results

Client: Ensolum

Job ID: 880-30375-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-111317/52

Matrix: Water

Analysis Batch: 111317

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250 mg/L			07/07/23 23:29	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/07/23 23:29	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/07/23 23:29	1

Lab Sample ID: LCS 860-111317/53

Matrix: Water

Analysis Batch: 111317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.299		mg/L		93	90 - 110
Fluoride	10.0	9.738		mg/L		97	90 - 110
Sulfate	10.0	9.241		mg/L		92	90 - 110

Lab Sample ID: LCSD 860-111317/54

Matrix: Water

Analysis Batch: 111317

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
Chloride	10.0	9.340		mg/L		93	90 - 110	0	20
Fluoride	10.0	9.786		mg/L		98	90 - 110	0	20
Sulfate	10.0	9.356		mg/L		94	90 - 110	1	20

Lab Sample ID: LLCS 860-111317/7

Matrix: Water

Analysis Batch: 111317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.4740	J	mg/L		95	50 - 150
Fluoride	0.500	0.2526	J	mg/L		51	50 - 150
Sulfate	0.500	0.3947	J	mg/L		79	50 - 150

Lab Sample ID: MB 860-111318/3

Matrix: Water

Analysis Batch: 111318

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/07/23 11:50	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/07/23 11:50	1

Lab Sample ID: MB 860-111318/52

Matrix: Water

Analysis Batch: 111318

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/07/23 23:29	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/07/23 23:29	1

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-111318/53				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 111318							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.460		mg/L		95	80 - 120
Nitrite as N	10.0	9.727		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-111318/54						Client Sample ID: Lab Control Sample Dup					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 111318											
				Spike	LCSD	LCSD					
Analyte				Added	Result	Qualifier	Unit	D	%Rec	%Rec	RPD
									Limits	RPD	Limits
Nitrate as N				10.0	9.457		mg/L		95	80 - 120	0
Nitrite as N				10.0	9.761		mg/L		98	80 - 120	0

Lab Sample ID: LLCS 860-111318/6				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 111318							
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.08953	J	mg/L		90	50 - 150
Nitrite as N	0.100	0.07006	J	mg/L		70	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-111619/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 111619									
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Alkalinity	<4.00	U	4.00	mg/L			07/10/23 11:33	1	
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			07/10/23 11:33	1	
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			07/10/23 11:33	1	

Lab Sample ID: LCS 860-111619/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 111619							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	253.5		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-111619/5					Client Sample ID: Lab Control Sample Dup					
Matrix: Water					Prep Type: Total/NA					
Analysis Batch: 111619										

Lab Sample ID: 880-30375-1 DU							Client Sample ID: MW-1			
Matrix: Water							Prep Type: Total/NA			
Analysis Batch: 111619										
	Sample	Sample		DU	DU					RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D		RPD	Limit
Alkalinity	665			673.5		mg/L			1	20

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 880-30375-1 DU
Matrix: Water
Analysis Batch: 111619

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	665		673.5		mg/L		1	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-111566/3
Matrix: Water
Analysis Batch: 111566

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved	<0.0400	U	0.100	0.0400 mg/L			07/10/23 12:56	1

Lab Sample ID: LCS 860-111566/4
Matrix: Water
Analysis Batch: 111566

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Dissolved	1.00	0.9467		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-111566/5
Matrix: Water
Analysis Batch: 111566

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
Sulfide, Dissolved	1.00	0.9483		mg/L		95	90 - 110	0	20

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

GC/MS VOA

Analysis Batch: 111231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	8260C	
MB 860-111231/13	Method Blank	Total/NA	Water	8260C	
LCS 860-111231/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-111231/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 111461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-2	MW-2	Total/NA	Water	8260C	
MB 860-111461/10	Method Blank	Total/NA	Water	8260C	
LCS 860-111461/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-111461/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	8015 NM	
880-30375-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 111498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	8015B NM	111565
880-30375-2	MW-2	Total/NA	Water	8015B NM	111565
MB 860-111565/1-A	Method Blank	Total/NA	Water	8015B NM	111565
LCS 860-111565/2-A	Lab Control Sample	Total/NA	Water	8015B NM	111565
LCSD 860-111565/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	111565

Prep Batch: 111565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-30375-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-111565/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-111565/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-111565/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 111317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	300.0	
880-30375-2	MW-2	Total/NA	Water	300.0	
MB 860-111317/3	Method Blank	Total/NA	Water	300.0	
MB 860-111317/52	Method Blank	Total/NA	Water	300.0	
LCS 860-111317/53	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-111317/54	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-111317/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 111318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	300.0	
880-30375-2	MW-2	Total/NA	Water	300.0	
MB 860-111318/3	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

HPLC/IC (Continued)

Analysis Batch: 111318 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-111318/52	Method Blank	Total/NA	Water	300.0	111318
LCS 860-111318/53	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-111318/54	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-111318/6	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 111566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Dissolved	Water	SM 4500 S2 D	111571
MB 860-111566/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-111566/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-111566/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Filtration Batch: 111571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Dissolved	Water	Filtration	111571

Analysis Batch: 111619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	SM 2320B	111619
880-30375-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-111619/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-111619/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-111619/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-30375-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 111625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	SM 4500 H+ B	111625
880-30375-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 112235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30375-1	MW-1	Total/NA	Water	SM 4500 CO2 D	112235
880-30375-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Client Sample ID: MW-1

Date Collected: 07/05/23 13:50

Date Received: 07/06/23 09:00

Lab Sample ID: 880-30375-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	111231	AN	EET HOU	07/07/23 19:21
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	07/12/23 10:00
Total/NA	Prep	8015NM Aq Prep			111565	SAR	EET HOU	07/10/23 12:51
Total/NA	Analysis	8015B NM		1	111498	T1S	EET HOU	07/10/23 19:31
Total/NA	Analysis	300.0		1	111317	AK1	EET HOU	07/08/23 04:30
Total/NA	Analysis	300.0		1	111318	AK1	EET HOU	07/08/23 04:30
Total/NA	Analysis	SM 2320B		1	111619	TL	EET HOU	07/10/23 13:48
Total/NA	Analysis	SM 4500 CO2 D		1	112235	AA	EET HOU	07/13/23 18:00
Total/NA	Analysis	SM 4500 H+ B		1	111625	TL	EET HOU	07/10/23 16:04
Dissolved	Filtration	Filtration			111571	SCI	EET HOU	07/10/23 12:11
Dissolved	Analysis	SM 4500 S2 D		1	111566	SCI	EET HOU	07/10/23 12:56

Client Sample ID: MW-2

Date Collected: 07/05/23 14:45

Date Received: 07/06/23 09:00

Lab Sample ID: 880-30375-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	111461	AN	EET HOU	07/10/23 12:16
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	07/12/23 10:00
Total/NA	Prep	8015NM Aq Prep			111565	SAR	EET HOU	07/10/23 12:52
Total/NA	Analysis	8015B NM		1	111498	T1S	EET HOU	07/10/23 19:53
Total/NA	Analysis	300.0		1	111317	AK1	EET HOU	07/08/23 04:46
Total/NA	Analysis	300.0		1	111318	AK1	EET HOU	07/08/23 04:46
Total/NA	Analysis	SM 2320B		1	111619	TL	EET HOU	07/10/23 14:16
Total/NA	Analysis	SM 4500 CO2 D		1	112235	AA	EET HOU	07/13/23 18:00
Total/NA	Analysis	SM 4500 H+ B		1	111625	TL	EET HOU	07/10/23 16:06

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 D	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU
Filtration	Sample Filtration	None	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30375-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30375-1	MW-1	Water	07/05/23 13:50	07/06/23 09:00
880-30375-2	MW-2	Water	07/05/23 14:45	07/06/23 09:00

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Chain of Custody

Work Order No:

20515

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0030 San Antonio, TX (210) 509-3334
 Midland, TX (432-704-5440) El Paso, TX (915) 565-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480-355-0800) Atlanta, GA (770-449-8800) Tampa, FL (813)
 575-392-7550

Page 1 of 1
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Project Manager	Beaux Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address	601 Marenefeld #400	Address	
City, State ZIP	Midland TX 79701	City, State ZIP	
Phone	432-230-3344	Email	bjennings@ensolum.com

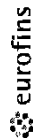
Work Order Comments			
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: _____ Reporting Level I ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐ Deliverables EDD ☐ ADAPT ☐ Other _____			

[illegible]

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab PM: Kramer Jessica		Carrier Tracking No(s):		COC No: 880-7368-1	
Client Contact: Shipping/Receiving		Phone:		State of Origin: New Mexico		Page: Page 1 of 1	
Company: Eurofins Environment Testing South Centr		E-Mail: Jessica.Kramer@et.eurofins.com		Accreditations Required (See note): NELAP Texas		Job #: 880-30375-1	
Address: 4145 Greenbriar Dr		Due Date Requested: 7/10/2023		Analysis Requested		Preservation Codes:	
City: Stafford	State: TX	Zip: 77477	PO #:	SM4500_H+	8260C/5030C (MOD) Full List VOCs	8015MOD_NM/8015NM_Aq_Prep (MOD) Full TPH	300_ORGFM_28D/ (MOD) Custom List
Phone: 281-240-4200(Tel)	Email:	Project #: 03B1417002	WO #:	SM4500_H+	8260C/5030C (MOD) Full List VOCs	8015MOD_NM/8015NM_Aq_Prep (MOD) Full TPH	300_ORGFM_28D/ (MOD) Custom List
Site: South Hobbs	Project Name: South Hobbs	Project #: 88000023	SSOW#:	Field Filtered Sample (Yes or No)	SM4500_H+	8260C/5030C (MOD) Full List VOCs	300_ORGFM_28D/ (MOD) Custom List
Sample Identification		Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Newswater, Seawater, Overwater, Rainwater, Snowmelt, Other)	Special Instructions/Note:
MW-1 (880-30375-1)			7/5/23	13:50 Mountain		Water	DISSOLVED SULFIDE
MW-2 (880-30375-2)			7/5/23	14:45 Mountain		Water	DISSOLVED SULFIDE
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analysis & 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/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 Deliverable Requested: I II III IV Other (specify) _____ Primary Deliverable Rank: 2							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:							
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____							
Custody Seal No. _____ Temp: 1.5 IR ID:HOU-338 C/F: -0.3 Corrected Temp: 1.2							

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-30375-1

Login Number: 30375
List Number: 1
Creator: Teel, Brianna

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: 880-30375-1

Login Number: 30375

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 07/07/23 03:04 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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 7/25/2023 2:43:47 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-30756-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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
7/25/2023 2:43:47 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Laboratory Job ID: 880-30756-1

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
α	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)

Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
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Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Job ID: 880-30756-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-30756-1****Receipt**

The samples were received on 7/14/2023 12:38 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 2.6°C

GC/MS VOA

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-112581 were outside control limits for Vinyl chloride. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-112581 recovered above the upper control limit for p-Cymene (p-Isopropyltoluene). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-112581/2).

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.

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-112646 contained Sulfate greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFMS: The following sample was received outside of holding time: MW-1 (880-30756-1).

Method 300_ORGFMS: The matrix spike duplicate (MSD) recoveries for analytical batch 860-112647 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFMS: The following sample(s) was received with less than 1 hour remaining on the holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-2 (880-30756-2).

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

General Chemistry

Method SM4500_S2_D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 860-113073 and analytical batch 860-113080 were outside control limits: (880-30809-I-1-B MS) and (880-30809-I-1-C MSD). The associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery met acceptance criteria.

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: 880-30756-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-30756-1

Date Collected: 07/13/23 13:20

Matrix: Water

Date Received: 07/14/23 12:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L		07/17/23 15:50	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		07/17/23 15:50	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		07/17/23 15:50	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		07/17/23 15:50	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		07/17/23 15:50	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		07/17/23 15:50	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		07/17/23 15:50	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		07/17/23 15:50	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		07/17/23 15:50	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		07/17/23 15:50	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		07/17/23 15:50	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		07/17/23 15:50	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		07/17/23 15:50	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		07/17/23 15:50	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		07/17/23 15:50	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		07/17/23 15:50	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		07/17/23 15:50	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		07/17/23 15:50	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		07/17/23 15:50	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		07/17/23 15:50	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/17/23 15:50	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/17/23 15:50	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		07/17/23 15:50	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		07/17/23 15:50	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		07/17/23 15:50	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		07/17/23 15:50	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		07/17/23 15:50	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		07/17/23 15:50	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		07/17/23 15:50	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		07/17/23 15:50	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		07/17/23 15:50	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		07/17/23 15:50	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		07/17/23 15:50	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		07/17/23 15:50	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		07/17/23 15:50	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		07/17/23 15:50	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		07/17/23 15:50	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		07/17/23 15:50	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		07/17/23 15:50	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		07/17/23 15:50	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		07/17/23 15:50	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		07/17/23 15:50	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		07/17/23 15:50	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		07/17/23 15:50	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		07/17/23 15:50	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		07/17/23 15:50	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		07/17/23 15:50	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		07/17/23 15:50	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		07/17/23 15:50	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Client Sample ID: MW-1

Lab Sample ID: 880-30756-1

Date Collected: 07/13/23 13:20

Matrix: Water

Date Received: 07/14/23 12:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/17/23 15:50	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/17/23 15:50	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/17/23 15:50	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/17/23 15:50	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/17/23 15:50	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/17/23 15:50	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/17/23 15:50	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/17/23 15:50	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/17/23 15:50	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/17/23 15:50	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/17/23 15:50	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/17/23 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		07/17/23 15:50	1
Dibromofluoromethane (Surr)	95		75 - 131		07/17/23 15:50	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		07/17/23 15:50	1
Toluene-d8 (Surr)	98		80 - 120		07/17/23 15:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.965	U	4.89	0.965 mg/L			07/25/23 11:23	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	<0.965	U	4.89	0.965 mg/L		07/20/23 13:35	07/21/23 03:16	1
Diesel Range Organics (Over C10-C28)	<0.965	U	4.89	0.965 mg/L		07/20/23 13:35	07/21/23 03:16	1
Oil Range Organics (Over C28-C36)	<0.932	U	4.89	0.932 mg/L		07/20/23 13:35	07/21/23 03:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135			07/20/23 13:35	07/21/23 03:16	1
o-Terphenyl	93		70 - 135			07/20/23 13:35	07/21/23 03:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		0.500	0.250 mg/L			07/15/23 21:18	1
Nitrate as N	0.0760	J H	0.100	0.0391 mg/L			07/15/23 21:18	1
Fluoride	0.270	J	0.500	0.100 mg/L			07/15/23 21:18	1
Nitrite as N	2.02	H	0.100	0.0293 mg/L			07/15/23 21:18	1
Sulfate	45.3		0.500	0.200 mg/L			07/15/23 21:18	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	738		4.00	4.00 mg/L			07/17/23 14:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	738		4.00	4.00 mg/L			07/17/23 14:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/17/23 14:39	1
Carbon dioxide (SM 4500 CO2 D)	835			mg/L			07/25/23 15:17	1

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Client Sample Results

Client: Ensolum

Job ID: 880-30756-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-30756-1

Date Collected: 07/13/23 13:20

Matrix: Water

Date Received: 07/14/23 12:38

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	186			mg/L			07/25/23 15:17	1
pH (SM 4500 H+ B)	6.9	HF		SU			07/17/23 17:25	1
Temperature (SM 4500 H+ B)	20.6	HF		Degrees C			07/17/23 17:25	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved (SM 4500 S2 D)	<0.0400	U	0.100	0.0400 mg/L			07/19/23 14:17	1

Client Sample ID: MW-2

Lab Sample ID: 880-30756-2

Date Collected: 07/13/23 14:30

Matrix: Water

Date Received: 07/14/23 12:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0223		0.00100	0.000460 mg/L			07/17/23 16:09	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/17/23 16:09	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/17/23 16:09	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/17/23 16:09	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/17/23 16:09	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/17/23 16:09	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/17/23 16:09	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/17/23 16:09	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/17/23 16:09	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/17/23 16:09	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/17/23 16:09	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/17/23 16:09	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/17/23 16:09	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/17/23 16:09	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/17/23 16:09	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/17/23 16:09	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/17/23 16:09	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/17/23 16:09	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/17/23 16:09	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/17/23 16:09	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/17/23 16:09	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/17/23 16:09	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/17/23 16:09	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/17/23 16:09	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/17/23 16:09	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/17/23 16:09	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/17/23 16:09	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/17/23 16:09	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/17/23 16:09	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/17/23 16:09	1
Ethylbenzene	0.0210		0.00100	0.000411 mg/L			07/17/23 16:09	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/17/23 16:09	1
Isopropylbenzene	0.00786		0.00100	0.000613 mg/L			07/17/23 16:09	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/17/23 16:09	1
m,p-Xylenes	0.0506		0.0100	0.00124 mg/L			07/17/23 16:09	1

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Client Sample Results

Client: Ensolum

Job ID: 880-30756-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-30756-2

Date Collected: 07/13/23 14:30

Matrix: Water

Date Received: 07/14/23 12:38

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/17/23 16:09	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/17/23 16:09	1
n-Butylbenzene	0.000658	J	0.00100	0.000644 mg/L			07/17/23 16:09	1
N-Propylbenzene	0.00211		0.00100	0.000498 mg/L			07/17/23 16:09	1
o-Xylene	0.0162		0.00100	0.000551 mg/L			07/17/23 16:09	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/17/23 16:09	1
sec-Butylbenzene	0.000815	J	0.00100	0.000468 mg/L			07/17/23 16:09	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/17/23 16:09	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/17/23 16:09	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/17/23 16:09	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/17/23 16:09	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/17/23 16:09	1
Toluene	0.00332		0.00100	0.000475 mg/L			07/17/23 16:09	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/17/23 16:09	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/17/23 16:09	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/17/23 16:09	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/17/23 16:09	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/17/23 16:09	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/17/23 16:09	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/17/23 16:09	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/17/23 16:09	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/17/23 16:09	1
1,2,4-Trimethylbenzene	0.0289		0.00100	0.000417 mg/L			07/17/23 16:09	1
1,3,5-Trimethylbenzene	0.00696		0.00100	0.000456 mg/L			07/17/23 16:09	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/17/23 16:09	1
Xylenes, Total	0.0668		0.0100	0.00124 mg/L			07/17/23 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		07/17/23 16:09	1
Dibromofluoromethane (Surr)	99		75 - 131		07/17/23 16:09	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		07/17/23 16:09	1
Toluene-d8 (Surr)	104		80 - 120		07/17/23 16:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	0.971	J	4.84	0.956 mg/L			07/25/23 11:23	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	0.971	J	4.84	0.956 mg/L		07/20/23 13:35	07/21/23 03:38	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956 mg/L		07/20/23 13:35	07/21/23 03:38	1
Oil Range Organics (Over C28-C36)	<0.923	U	4.84	0.923 mg/L		07/20/23 13:35	07/21/23 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	07/20/23 13:35	07/21/23 03:38	1
o-Terphenyl	84		70 - 135	07/20/23 13:35	07/21/23 03:38	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Client Sample ID: MW-2
Date Collected: 07/13/23 14:30
Date Received: 07/14/23 12:38

Lab Sample ID: 880-30756-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		0.500	0.250	mg/L			07/15/23 21:34	1
Nitrate as N	0.119	H	0.100	0.0391	mg/L			07/15/23 21:34	1
Fluoride	<0.100	U	0.500	0.100	mg/L			07/15/23 21:34	1
Nitrite as N	3.29	H F1	0.100	0.0293	mg/L			07/15/23 21:34	1
Sulfate	96.3		0.500	0.200	mg/L			07/15/23 21:34	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1310		4.00	4.00	mg/L			07/17/23 15:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1310		4.00	4.00	mg/L			07/17/23 15:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/17/23 15:39	1
Carbon dioxide (SM 4500 CO2 D)	2200				mg/L			07/25/23 15:17	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1040				mg/L			07/25/23 15:17	1
pH (SM 4500 H+ B)	6.4	HF			SU			07/17/23 17:24	1
Temperature (SM 4500 H+ B)	20.2	HF			Degrees C			07/17/23 17:24	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-120)
880-30756-1	MW-1	100	95	106	98
880-30756-2	MW-2	97	99	101	104
LCS 860-112581/3	Lab Control Sample	99	96	94	97
LCSD 860-112581/4	Lab Control Sample Dup	103	93	96	99
MB 860-112581/12	Method Blank	104	95	105	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (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	OTPH1
		(70-135)	(70-135)
880-30756-1	MW-1	100	93
880-30756-2	MW-2	90	84
LCS 860-113274/2-A	Lab Control Sample	110	95
LCSD 860-113274/3-A	Lab Control Sample Dup	112	97
MB 860-113274/1-A	Method Blank	101	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-30756-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-112581/12

Matrix: Water

Analysis Batch: 112581

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/17/23 14:53	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/17/23 14:53	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/17/23 14:53	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/17/23 14:53	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/17/23 14:53	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/17/23 14:53	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/17/23 14:53	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/17/23 14:53	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/17/23 14:53	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/17/23 14:53	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/17/23 14:53	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/17/23 14:53	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/17/23 14:53	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/17/23 14:53	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/17/23 14:53	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/17/23 14:53	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/17/23 14:53	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/17/23 14:53	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/17/23 14:53	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/17/23 14:53	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/17/23 14:53	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/17/23 14:53	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/17/23 14:53	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/17/23 14:53	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/17/23 14:53	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/17/23 14:53	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/17/23 14:53	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/17/23 14:53	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/17/23 14:53	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/17/23 14:53	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/17/23 14:53	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/17/23 14:53	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/17/23 14:53	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/17/23 14:53	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/17/23 14:53	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/17/23 14:53	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/17/23 14:53	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/17/23 14:53	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/17/23 14:53	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/17/23 14:53	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/17/23 14:53	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/17/23 14:53	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/17/23 14:53	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/17/23 14:53	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/17/23 14:53	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/17/23 14:53	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/17/23 14:53	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/17/23 14:53	1

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

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

Lab Sample ID: MB 860-112581/12					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 112581									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/17/23 14:53	1	
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/17/23 14:53	1	
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/17/23 14:53	1	
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/17/23 14:53	1	
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/17/23 14:53	1	
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/17/23 14:53	1	
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/17/23 14:53	1	
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/17/23 14:53	1	
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/17/23 14:53	1	
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/17/23 14:53	1	
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/17/23 14:53	1	
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/17/23 14:53	1	
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/17/23 14:53	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		74 - 124				07/17/23 14:53	1	
Dibromofluoromethane (Surr)	95		75 - 131				07/17/23 14:53	1	
1,2-Dichloroethane-d4 (Surr)	105		63 - 144				07/17/23 14:53	1	
Toluene-d8 (Surr)	101		80 - 120				07/17/23 14:53	1	

Lab Sample ID: LCS 860-112581/3					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 112581									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.0500	0.05419		mg/L		108	75 - 125		
Bromobenzene	0.0500	0.05291		mg/L		106	75 - 125		
Bromochloromethane	0.0500	0.05701		mg/L		114	60 - 140		
Bromodichloromethane	0.0500	0.05711		mg/L		114	75 - 125		
Bromoform	0.0500	0.05480		mg/L		110	70 - 130		
Bromomethane	0.0500	0.04385		mg/L		88	60 - 140		
2-Butanone	0.250	0.2465		mg/L		99	60 - 140		
Carbon tetrachloride	0.0500	0.04714		mg/L		94	70 - 130		
Chlorobenzene	0.0500	0.05366		mg/L		107	65 - 135		
Chloroethane	0.0500	0.04523		mg/L		90	60 - 140		
Chloroform	0.0500	0.05440		mg/L		109	70 - 121		
Chloromethane	0.0500	0.04220		mg/L		84	60 - 140		
2-Chlorotoluene	0.0500	0.05482		mg/L		110	73 - 125		
4-Chlorotoluene	0.0500	0.05448		mg/L		109	74 - 125		
cis-1,2-Dichloroethene	0.0500	0.05321		mg/L		106	75 - 125		
cis-1,3-Dichloropropene	0.0500	0.05796		mg/L		116	74 - 125		
Dibromochloromethane	0.0500	0.05465		mg/L		109	73 - 125		
1,2-Dibromo-3-Chloropropane	0.0500	0.04111		mg/L		82	59 - 125		
1,2-Dibromoethane	0.0500	0.05429		mg/L		109	73 - 125		
1,2-Dichlorobenzene	0.0500	0.05194		mg/L		104	75 - 125		
1,3-Dichlorobenzene	0.0500	0.05720		mg/L		114	75 - 125		
1,4-Dichlorobenzene	0.0500	0.05289		mg/L		106	75 - 125		
Dichlorodifluoromethane	0.0500	0.04452		mg/L		89	50 - 150		

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

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

Lab Sample ID: LCS 860-112581/3

Matrix: Water

Analysis Batch: 112581

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.05440		mg/L		109	70 - 130
1,2-Dichloroethane	0.0500	0.05304		mg/L		106	72 - 130
1,1-Dichloroethene	0.0500	0.04831		mg/L		97	50 - 150
1,2-Dichloropropane	0.0500	0.05766		mg/L		115	74 - 125
1,3-Dichloropropane	0.0500	0.05372		mg/L		107	75 - 125
2,2-Dichloropropane	0.0500	0.05718		mg/L		114	75 - 125
1,1-Dichloropropene	0.0500	0.05054		mg/L		101	75 - 125
Ethylbenzene	0.0500	0.05664		mg/L		113	75 - 125
Hexachlorobutadiene	0.0500	0.05491		mg/L		110	75 - 125
Isopropylbenzene	0.0500	0.05868		mg/L		117	75 - 125
Methylene Chloride	0.0500	0.04579		mg/L		92	71 - 125
m,p-Xylenes	0.0500	0.05716		mg/L		114	75 - 125
MTBE	0.0500	0.05263		mg/L		105	65 - 135
Naphthalene	0.0500	0.04812		mg/L		96	70 - 130
n-Butylbenzene	0.0500	0.05498		mg/L		110	75 - 125
N-Propylbenzene	0.0500	0.05452		mg/L		109	75 - 125
o-Xylene	0.0500	0.05827		mg/L		117	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05718		mg/L		114	75 - 125
sec-Butylbenzene	0.0500	0.05540		mg/L		111	75 - 125
Styrene	0.0500	0.05954		mg/L		119	75 - 125
tert-Butylbenzene	0.0500	0.05552		mg/L		111	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05694		mg/L		114	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04894		mg/L		98	74 - 125
Tetrachloroethene	0.0500	0.05645		mg/L		113	71 - 125
Toluene	0.0500	0.05351		mg/L		107	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05058		mg/L		101	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05933		mg/L		119	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04743		mg/L		95	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05176		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05180		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.05356		mg/L		107	70 - 130
Trichloroethene	0.0500	0.05593		mg/L		112	75 - 135
Trichlorofluoromethane	0.0500	0.05129		mg/L		103	60 - 140
1,2,3-Trichloropropane	0.0500	0.04766		mg/L		95	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05440		mg/L		109	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05261		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.04908		mg/L		98	60 - 140
	LCS LCS						
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	99		74 - 124				
Dibromofluoromethane (Surr)	96		75 - 131				
1,2-Dichloroethane-d4 (Surr)	94		63 - 144				
Toluene-d8 (Surr)	97		80 - 120				

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-30756-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-112581/4

Matrix: Water

Analysis Batch: 112581

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Benzene	0.0500	0.05204		mg/L		104	75 - 125	4	25
Bromobenzene	0.0500	0.05516		mg/L		110	75 - 125	4	25
Bromochloromethane	0.0500	0.05193		mg/L		104	60 - 140	9	25
Bromodichloromethane	0.0500	0.05735		mg/L		115	75 - 125	0	25
Bromoform	0.0500	0.05582		mg/L		112	70 - 130	2	25
Bromomethane	0.0500	0.04063		mg/L		81	60 - 140	8	25
2-Butanone	0.250	0.2124		mg/L		85	60 - 140	15	25
Carbon tetrachloride	0.0500	0.05409		mg/L		108	70 - 130	14	25
Chlorobenzene	0.0500	0.05507		mg/L		110	65 - 135	3	25
Chloroethane	0.0500	0.04905		mg/L		98	60 - 140	8	25
Chloroform	0.0500	0.05340		mg/L		107	70 - 121	2	25
Chloromethane	0.0500	0.04255		mg/L		85	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05753		mg/L		115	73 - 125	5	25
4-Chlorotoluene	0.0500	0.05668		mg/L		113	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05290		mg/L		106	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05847		mg/L		117	74 - 125	1	25
Dibromochloromethane	0.0500	0.05628		mg/L		113	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04319		mg/L		86	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.05333		mg/L		107	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05600		mg/L		112	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.05718		mg/L		114	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05498		mg/L		110	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.04170		mg/L		83	50 - 150	7	25
1,1-Dichloroethane	0.0500	0.05353		mg/L		107	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.05415		mg/L		108	72 - 130	2	25
1,1-Dichloroethene	0.0500	0.04959		mg/L		99	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.05603		mg/L		112	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.05404		mg/L		108	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05907		mg/L		118	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04956		mg/L		99	75 - 125	2	25
Ethylbenzene	0.0500	0.05785		mg/L		116	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.06126		mg/L		123	75 - 125	11	25
Isopropylbenzene	0.0500	0.05990		mg/L		120	75 - 125	2	25
Methylene Chloride	0.0500	0.04504		mg/L		90	71 - 125	2	25
m,p-Xylenes	0.0500	0.05841		mg/L		117	75 - 125	2	25
MTBE	0.0500	0.04947		mg/L		99	65 - 135	6	25
Naphthalene	0.0500	0.05120		mg/L		102	70 - 130	6	25
n-Butylbenzene	0.0500	0.05976		mg/L		120	75 - 125	8	25
N-Propylbenzene	0.0500	0.05717		mg/L		114	75 - 125	5	25
o-Xylene	0.0500	0.05856		mg/L		117	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.06180		mg/L		124	75 - 125	8	25
sec-Butylbenzene	0.0500	0.05959		mg/L		119	75 - 125	7	25
Styrene	0.0500	0.05958		mg/L		119	75 - 125	0	25
tert-Butylbenzene	0.0500	0.06040		mg/L		121	75 - 125	8	25
1,1,1,2-Tetrachloroethane	0.0500	0.05719		mg/L		114	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.05038		mg/L		101	74 - 125	3	25
Tetrachloroethene	0.0500	0.06006		mg/L		120	71 - 125	6	25
Toluene	0.0500	0.05481		mg/L		110	70 - 130	2	25

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QC Sample Results

Client: Ensolum

Job ID: 880-30756-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-112581/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 112581

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec		RPD	Limit
	Added	Result	Qualifier				Limits	RPD		
trans-1,2-Dichloroethene	0.0500	0.04885		mg/L		98	75 - 125	3		25
trans-1,3-Dichloropropene	0.0500	0.05820		mg/L		116	66 - 125	2		25
1,2,3-Trichlorobenzene	0.0500	0.05349		mg/L		107	75 - 137	12		25
1,2,4-Trichlorobenzene	0.0500	0.05657		mg/L		113	75 - 135	9		25
1,1,1-Trichloroethane	0.0500	0.04987		mg/L		100	70 - 130	4		25
1,1,2-Trichloroethane	0.0500	0.05280		mg/L		106	70 - 130	1		25
Trichloroethene	0.0500	0.05523		mg/L		110	75 - 135	1		25
Trichlorofluoromethane	0.0500	0.05890		mg/L		118	60 - 140	14		25
1,2,3-Trichloropropane	0.0500	0.05057		mg/L		101	75 - 125	6		25
1,2,4-Trimethylbenzene	0.0500	0.05766		mg/L		115	75 - 125	6		25
1,3,5-Trimethylbenzene	0.0500	0.05684		mg/L		114	60 - 140	8		25
Vinyl chloride	0.0500	0.04700		mg/L		94	60 - 140	4		25

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	93		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	99		80 - 120

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

Lab Sample ID: MB 860-113274/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 113228

Prep Batch: 113274

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed		Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988 mg/L		07/20/23 13:35	07/21/23 02:55		1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		07/20/23 13:35	07/21/23 02:55		1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		07/20/23 13:35	07/21/23 02:55		1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	07/20/23 13:35	07/21/23 02:55	1
o-Terphenyl	94		70 - 135	07/20/23 13:35	07/21/23 02:55	1

Lab Sample ID: LCS 860-113274/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 113228

Prep Batch: 113274

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	
	Added	Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	117	131.4		mg/L		112	70 - 135	
Diesel Range Organics (Over C10-C28)	101	91.15		mg/L		91	70 - 135	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 135
o-Terphenyl	95		70 - 135

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

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

Lab Sample ID: LCSD 860-113274/3-A
Matrix: Water
Analysis Batch: 113228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 113274

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	117	136.7		mg/L		117	70 - 135	4	35
Diesel Range Organics (Over C10-C28)	101	93.86		mg/L		93	70 - 135	3	35

Surrogate

LCSD %Recovery

LCSD Qualifier

Limits

1-Chlorooctane	112		70 - 135
o-Terphenyl	97		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-112646/3
Matrix: Water
Analysis Batch: 112646

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250 mg/L			07/15/23 20:23	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/15/23 20:23	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/15/23 20:23	1

Lab Sample ID: LCS 860-112646/4
Matrix: Water
Analysis Batch: 112646

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.713		mg/L		97	90 - 110
Fluoride	10.0	10.18		mg/L		102	90 - 110
Sulfate	10.0	9.367		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-112646/5
Matrix: Water
Analysis Batch: 112646

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
Chloride	10.0	9.729		mg/L		97	90 - 110	0	20
Fluoride	10.0	10.20		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.359		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 860-112646/7
Matrix: Water
Analysis Batch: 112646

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.4439	J	mg/L		89	50 - 150
Fluoride	0.500	0.3233	J	mg/L		65	50 - 150
Sulfate	0.500	0.3245	J	mg/L		65	50 - 150

QC Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-112647/3

Matrix: Water

Analysis Batch: 112647

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			07/15/23 20:23	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			07/15/23 20:23	1

Lab Sample ID: LCS 860-112647/4

Matrix: Water

Analysis Batch: 112647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.901		mg/L		99	80 - 120
Nitrite as N	10.0	9.674		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-112647/5

Matrix: Water

Analysis Batch: 112647

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
Nitrate as N	10.0	9.906		mg/L		99	80 - 120	0	20
Nitrite as N	10.0	9.746		mg/L		97	80 - 120	1	20

Lab Sample ID: LLCS 860-112647/6

Matrix: Water

Analysis Batch: 112647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.05814	J	mg/L		58	50 - 150
Nitrite as N	0.100	0.05321	J	mg/L		53	50 - 150

Lab Sample ID: 880-30756-2 MS

Matrix: Water

Analysis Batch: 112647

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.119	H	10.0	9.852		mg/L		97	80 - 120
Nitrite as N	3.29	H F1	2.50	5.525		mg/L		89	80 - 120

Lab Sample ID: 880-30756-2 MSD

Matrix: Water

Analysis Batch: 112647

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.119	H	10.0	9.869		mg/L		97	80 - 120	0	15
Nitrite as N	3.29	H F1	2.50	5.272	F1	mg/L		79	80 - 120	5	15

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-112677/3					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 112677									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/17/23 11:29	1	
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/17/23 11:29	1	
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/17/23 11:29	1	

Lab Sample ID: LCS 860-112677/4					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 112677									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity	250	257.0		mg/L		103	85 - 115		

Lab Sample ID: LCSD 860-112677/5					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 112677									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	250.3		mg/L		100	85 - 115	3	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-113080/3					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 113080									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Sulfide, Dissolved	<0.0400	U	0.100	0.0400 mg/L			07/19/23 14:17	1	

Lab Sample ID: LCS 860-113080/4					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 113080									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Dissolved	1.00	0.9143		mg/L		91	90 - 110		

Lab Sample ID: LCSD 860-113080/5					Client Sample ID: Lab Control Sample Dup				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 113080									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Dissolved	1.00	0.9127		mg/L		91	90 - 110	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-30756-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 112581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	8260C	
880-30756-2	MW-2	Total/NA	Water	8260C	
MB 860-112581/12	Method Blank	Total/NA	Water	8260C	
LCS 860-112581/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-112581/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	8015 NM	
880-30756-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 113228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	8015B NM	113274
880-30756-2	MW-2	Total/NA	Water	8015B NM	113274
MB 860-113274/1-A	Method Blank	Total/NA	Water	8015B NM	113274
LCS 860-113274/2-A	Lab Control Sample	Total/NA	Water	8015B NM	113274
LCSD 860-113274/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	113274

Prep Batch: 113274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-30756-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-113274/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-113274/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-113274/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 112646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	300.0	
880-30756-2	MW-2	Total/NA	Water	300.0	
MB 860-112646/3	Method Blank	Total/NA	Water	300.0	
LCS 860-112646/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112646/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112646/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 112647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	300.0	
880-30756-2	MW-2	Total/NA	Water	300.0	
MB 860-112647/3	Method Blank	Total/NA	Water	300.0	
LCS 860-112647/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112647/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112647/6	Lab Control Sample	Total/NA	Water	300.0	
880-30756-2 MS	MW-2	Total/NA	Water	300.0	
880-30756-2 MSD	MW-2	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

General Chemistry

Analysis Batch: 112677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	SM 2320B	
880-30756-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-112677/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-112677/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-112677/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 112711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-30756-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Filtration Batch: 113073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 113080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Dissolved	Water	SM 4500 S2 D	113073
MB 860-113080/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-113080/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-113080/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 114056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30756-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-30756-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Client Sample ID: MW-1

Date Collected: 07/13/23 13:20

Date Received: 07/14/23 12:38

Lab Sample ID: 880-30756-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	112581	AN	EET HOU	07/17/23 15:50
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	07/25/23 11:23
Total/NA	Prep	8015NM Aq Prep			113274	SAR	EET HOU	07/20/23 13:35
Total/NA	Analysis	8015B NM		1	113228	T1S	EET HOU	07/21/23 03:16
Total/NA	Analysis	300.0		1	112646	RBNS	EET HOU	07/15/23 21:18
Total/NA	Analysis	300.0		1	112647	RBNS	EET HOU	07/15/23 21:18
Total/NA	Analysis	SM 2320B		1	112677	TL	EET HOU	07/17/23 14:39
Total/NA	Analysis	SM 4500 CO2 D		1	114056	MC	EET HOU	07/25/23 15:17
Total/NA	Analysis	SM 4500 H+ B		1	112711	TL	EET HOU	07/17/23 17:25
Dissolved	Filtration	Filtration			113073	SCI	EET HOU	07/19/23 14:03
Dissolved	Analysis	SM 4500 S2 D		1	113080	SCI	EET HOU	07/19/23 14:17

Client Sample ID: MW-2

Date Collected: 07/13/23 14:30

Date Received: 07/14/23 12:38

Lab Sample ID: 880-30756-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	112581	AN	EET HOU	07/17/23 16:09
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	07/25/23 11:23
Total/NA	Prep	8015NM Aq Prep			113274	SAR	EET HOU	07/20/23 13:35
Total/NA	Analysis	8015B NM		1	113228	T1S	EET HOU	07/21/23 03:38
Total/NA	Analysis	300.0		1	112646	RBNS	EET HOU	07/15/23 21:34
Total/NA	Analysis	300.0		1	112647	RBNS	EET HOU	07/15/23 21:34
Total/NA	Analysis	SM 2320B		1	112677	TL	EET HOU	07/17/23 15:39
Total/NA	Analysis	SM 4500 CO2 D		1	114056	MC	EET HOU	07/25/23 15:17
Total/NA	Analysis	SM 4500 H+ B		1	112711	TL	EET HOU	07/17/23 17:24

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 D	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU
Filtration	Sample Filtration	None	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30756-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30756-1	MW-1	Water	07/13/23 13:20	07/14/23 12:38
880-30756-2	MW-2	Water	07/13/23 14:30	07/14/23 12:38

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta GA (770) 449-8900 Tampa FL (813) 620-2000

Work Order No:

30756

Project Manager	Beaux Jennings	Bill to (if different)	
Company Name	Ensolum LLC	Company Name	
Address	601 Marrenfield #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 Hobbs	Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number	03B1417002	Routine ☐	Rush 24 Hr		
P.O. Number:	03B1417002	Due Date			
Sampler's Name	Shane Diller				
SAMPLE RECEIPT		Temp Blank	Yes ☐ No ☒	Wet Ice	Yes ☐ No ☒
Temperature (°C)	29.7.0	Thermometer ID			
Received Intact	Yes ☒ No ☐	Correction Factor			
Cooler Custody Seals	Yes ☐ No ☒	Total Containers			
Sample Custody Seals	Yes ☐ No ☒				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	
	MMW-1	GW	7-13-23	1320	-
	MMW-2	GW	7-13-23	1430	-
Number of Containers Dissolved Carbon Dioxide 4500 CO2 c Dissoved Sulfide SW-846 #376.2 VOC SW-846 #8260 TPH EPA Method #8015 Chloride EPA Method #846 300 pH EPA SW-846 Method 150.1					
TAT starts the day received by the lab if received by 4 30pm					
Sample Comments					
24 Hr					



880-30756 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 SiO2 Na Sr Ti 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 Ti U	1631 / 245.1 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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 <i>Shane Diller</i>	2 <i>[Signature]</i>	7/14/23			
3 <i>[Signature]</i>		7/13/23			
4					
5					
6					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-30756-1

Login Number: 30756
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: 880-30756-1

Login Number: 30756

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 07/15/23 01:51 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 7/25/2023 2:43:39 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-30809-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.
Released to Imaging: 4/17/2024 10:23:22 AM



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
7/25/2023 2:43:39 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Laboratory Job ID: 880-30809-1

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
α	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 Hobbs - 03B1417002

Job ID: 880-30809-1

Job ID: 880-30809-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-30809-1

Receipt

The samples were received on 7/17/2023 3:44 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 3.1°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-112895 recovered above the upper control limit for p-Cymene (p-Isopropyltoluene), Bromobenzene, Tetrachloroethylene, tert-Butylbenzene, and Methyl acetate, . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-112895/2).

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-112895 recovered outside acceptance criteria, low biased, for Bromomethane, Chloroethane, and Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-112895 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFMS: The matrix spike duplicate (MSD) recoveries for analytical batch 860-112822 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

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

General Chemistry

Method SM4500_S2_D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 860-113073 and analytical batch 860-113080 were outside control limits: (880-30809-I-1-B MS) and (880-30809-I-1-C MSD). The associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery met acceptance criteria.

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: 880-30809-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-30809-1

Date Collected: 07/17/23 10:35

Matrix: Water

Date Received: 07/17/23 15:44

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/19/23 04:33	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/19/23 04:33	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/19/23 04:33	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/19/23 04:33	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/19/23 04:33	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/19/23 04:33	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/19/23 04:33	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/19/23 04:33	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/19/23 04:33	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/19/23 04:33	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/19/23 04:33	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/19/23 04:33	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/19/23 04:33	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/19/23 04:33	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/19/23 04:33	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/19/23 04:33	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/19/23 04:33	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/19/23 04:33	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/19/23 04:33	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/19/23 04:33	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/19/23 04:33	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/19/23 04:33	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/19/23 04:33	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/19/23 04:33	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/19/23 04:33	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/19/23 04:33	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/19/23 04:33	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/19/23 04:33	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/19/23 04:33	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/19/23 04:33	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/19/23 04:33	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/19/23 04:33	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/19/23 04:33	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/19/23 04:33	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/19/23 04:33	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/19/23 04:33	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/19/23 04:33	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/19/23 04:33	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/19/23 04:33	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/19/23 04:33	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/19/23 04:33	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/19/23 04:33	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/19/23 04:33	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/19/23 04:33	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/19/23 04:33	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/19/23 04:33	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/19/23 04:33	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/19/23 04:33	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/19/23 04:33	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

Client Sample ID: MW-1

Lab Sample ID: 880-30809-1

Date Collected: 07/17/23 10:35

Matrix: Water

Date Received: 07/17/23 15:44

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/19/23 04:33	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/19/23 04:33	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/19/23 04:33	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/19/23 04:33	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/19/23 04:33	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/19/23 04:33	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/19/23 04:33	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/19/23 04:33	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/19/23 04:33	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/19/23 04:33	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/19/23 04:33	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/19/23 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		74 - 124		07/19/23 04:33	1
Dibromofluoromethane (Surr)	94		75 - 131		07/19/23 04:33	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		07/19/23 04:33	1
Toluene-d8 (Surr)	100		80 - 120		07/19/23 04:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.02	U	5.14	1.02 mg/L			07/25/23 11:25	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	<1.02	U	5.14	1.02 mg/L		07/20/23 13:35	07/21/23 03:59	1
Diesel Range Organics (Over C10-C28)	<1.02	U	5.14	1.02 mg/L		07/20/23 13:35	07/21/23 03:59	1
Oil Range Organics (Over C28-C36)	<0.980	U	5.14	0.980 mg/L		07/20/23 13:35	07/21/23 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 135			07/20/23 13:35	07/21/23 03:59	1
o-Terphenyl	92		70 - 135			07/20/23 13:35	07/21/23 03:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.4		0.500	0.250 mg/L			07/18/23 19:34	1
Nitrate as N	0.0655	J	0.100	0.0391 mg/L			07/18/23 19:34	1
Fluoride	0.209	J	0.500	0.100 mg/L			07/18/23 19:34	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/18/23 19:34	1
Sulfate	42.6		0.500	0.200 mg/L			07/18/23 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	769		4.00	4.00 mg/L			07/18/23 20:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	769		4.00	4.00 mg/L			07/18/23 20:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/18/23 20:48	1
Carbon dioxide (SM 4500 CO2 D)	870			mg/L			07/25/23 15:17	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

Client Sample ID: MW-1

Lab Sample ID: 880-30809-1

Date Collected: 07/17/23 10:35

Matrix: Water

Date Received: 07/17/23 15:44

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Carbon Dioxide, Free (SM 4500 CO2 D)	193			mg/L			07/25/23 15:17	1	
pH (SM 4500 H+ B)	6.9	HF		SU			07/19/23 16:51	1	
Temperature (SM 4500 H+ B)	21.4	HF		Degrees C			07/19/23 16:51	1	
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Sulfide, Dissolved (SM 4500 S2 D)	<0.0400	U F1	0.100	0.0400 mg/L			07/19/23 14:17	1	

Client Sample ID: MW-2

Lab Sample ID: 880-30809-2

Date Collected: 07/17/23 11:50

Matrix: Water

Date Received: 07/17/23 15:44

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.0131		0.00100	0.000460 mg/L			07/19/23 04:52	1	
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/19/23 04:52	1	
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/19/23 04:52	1	
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/19/23 04:52	1	
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/19/23 04:52	1	
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/19/23 04:52	1	
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/19/23 04:52	1	
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/19/23 04:52	1	
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/19/23 04:52	1	
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/19/23 04:52	1	
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/19/23 04:52	1	
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/19/23 04:52	1	
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/19/23 04:52	1	
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/19/23 04:52	1	
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/19/23 04:52	1	
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/19/23 04:52	1	
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/19/23 04:52	1	
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/19/23 04:52	1	
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/19/23 04:52	1	
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/19/23 04:52	1	
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/19/23 04:52	1	
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/19/23 04:52	1	
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/19/23 04:52	1	
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/19/23 04:52	1	
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/19/23 04:52	1	
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/19/23 04:52	1	
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/19/23 04:52	1	
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/19/23 04:52	1	
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/19/23 04:52	1	
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/19/23 04:52	1	
Ethylbenzene	0.0120		0.00100	0.000411 mg/L			07/19/23 04:52	1	
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/19/23 04:52	1	
Isopropylbenzene	0.00600		0.00100	0.000613 mg/L			07/19/23 04:52	1	
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/19/23 04:52	1	
m,p-Xylenes	0.0413		0.0100	0.00124 mg/L			07/19/23 04:52	1	

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Client Sample Results

Client: Ensolum

Job ID: 880-30809-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-30809-2

Date Collected: 07/17/23 11:50

Matrix: Water

Date Received: 07/17/23 15:44

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/19/23 04:52	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/19/23 04:52	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/19/23 04:52	1
N-Propylbenzene	0.00149		0.00100	0.000498 mg/L			07/19/23 04:52	1
o-Xylene	0.00986		0.00100	0.000551 mg/L			07/19/23 04:52	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/19/23 04:52	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/19/23 04:52	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/19/23 04:52	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/19/23 04:52	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/19/23 04:52	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/19/23 04:52	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/19/23 04:52	1
Toluene	0.00244		0.00100	0.000475 mg/L			07/19/23 04:52	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/19/23 04:52	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/19/23 04:52	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/19/23 04:52	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/19/23 04:52	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/19/23 04:52	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/19/23 04:52	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/19/23 04:52	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/19/23 04:52	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/19/23 04:52	1
1,2,4-Trimethylbenzene	0.0213		0.00100	0.000417 mg/L			07/19/23 04:52	1
1,3,5-Trimethylbenzene	0.00498		0.00100	0.000456 mg/L			07/19/23 04:52	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/19/23 04:52	1
Xylenes, Total	0.0512		0.0100	0.00124 mg/L			07/19/23 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		07/19/23 04:52	1
Dibromofluoromethane (Surr)	108		75 - 131		07/19/23 04:52	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		07/19/23 04:52	1
Toluene-d8 (Surr)	97		80 - 120		07/19/23 04:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.19	J	5.02	0.991 mg/L			07/25/23 11:25	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	1.19	J	5.02	0.991	mg/L		07/20/23 13:35	07/21/23 04:20	1
Diesel Range Organics (Over C10-C28)	<0.991	U	5.02	0.991	mg/L		07/20/23 13:35	07/21/23 04:20	1
Oil Range Organics (Over C28-C36)	<0.957	U	5.02	0.957	mg/L		07/20/23 13:35	07/21/23 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135				07/20/23 13:35	07/21/23 04:20	1
o-Terphenyl	85		70 - 135				07/20/23 13:35	07/21/23 04:20	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

Client Sample ID: MW-2
Date Collected: 07/17/23 11:50
Date Received: 07/17/23 15:44

Lab Sample ID: 880-30809-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.1		0.500	0.250	mg/L			07/18/23 19:49	1
Nitrate as N	0.126		0.100	0.0391	mg/L			07/18/23 19:49	1
Fluoride	0.478	J	0.500	0.100	mg/L			07/18/23 19:49	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			07/18/23 19:49	1
Sulfate	103		0.500	0.200	mg/L			07/18/23 19:49	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1280		4.00	4.00	mg/L			07/18/23 21:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1280		4.00	4.00	mg/L			07/18/23 21:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/18/23 21:04	1
Carbon dioxide (SM 4500 CO2 D)	2400				mg/L			07/25/23 15:17	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1280				mg/L			07/25/23 15:17	1
pH (SM 4500 H+ B)	6.3	HF			SU			07/19/23 16:54	1
Temperature (SM 4500 H+ B)	20.6	HF			Degrees C			07/19/23 16:54	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-120)
880-30809-1	MW-1	109	94	103	100
880-30809-2	MW-2	100	108	101	97
LCS 860-112895/31	Lab Control Sample	96	95	105	100
LCSD 860-112895/32	Lab Control Sample Dup	95	95	99	98
MB 860-112895/9	Method Blank	113	98	99	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (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	OTPH1
		(70-135)	(70-135)
880-30809-1	MW-1	102	92
880-30809-2	MW-2	92	85
LCS 860-113274/2-A	Lab Control Sample	110	95
LCSD 860-113274/3-A	Lab Control Sample Dup	112	97
MB 860-113274/1-A	Method Blank	101	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-30809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-112895/9

Matrix: Water

Analysis Batch: 112895

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/19/23 02:01	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/19/23 02:01	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/19/23 02:01	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/19/23 02:01	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/19/23 02:01	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/19/23 02:01	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/19/23 02:01	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/19/23 02:01	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/19/23 02:01	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/19/23 02:01	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/19/23 02:01	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/19/23 02:01	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/19/23 02:01	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/19/23 02:01	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/19/23 02:01	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/19/23 02:01	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/19/23 02:01	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/19/23 02:01	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/19/23 02:01	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/19/23 02:01	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/19/23 02:01	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/19/23 02:01	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/19/23 02:01	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/19/23 02:01	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/19/23 02:01	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/19/23 02:01	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/19/23 02:01	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/19/23 02:01	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/19/23 02:01	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/19/23 02:01	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/19/23 02:01	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/19/23 02:01	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/19/23 02:01	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/19/23 02:01	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/19/23 02:01	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/19/23 02:01	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/19/23 02:01	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/19/23 02:01	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/19/23 02:01	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/19/23 02:01	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/19/23 02:01	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/19/23 02:01	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/19/23 02:01	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/19/23 02:01	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/19/23 02:01	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/19/23 02:01	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/19/23 02:01	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/19/23 02:01	1

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QC Sample Results

Client: Ensolum

Job ID: 880-30809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-112895/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 112895

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		07/19/23 02:01	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		07/19/23 02:01	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L		07/19/23 02:01	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		07/19/23 02:01	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L		07/19/23 02:01	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L		07/19/23 02:01	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L		07/19/23 02:01	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L		07/19/23 02:01	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L		07/19/23 02:01	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		07/19/23 02:01	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456	mg/L		07/19/23 02:01	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L		07/19/23 02:01	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		07/19/23 02:01	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	113		74 - 124		07/19/23 02:01	1		
Dibromofluoromethane (Surr)	98		75 - 131		07/19/23 02:01	1		
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		07/19/23 02:01	1		
Toluene-d8 (Surr)	100		80 - 120		07/19/23 02:01	1		

Lab Sample ID: LCS 860-112895/31

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 112895

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.05024		mg/L		100	75 - 125
Bromobenzene	0.0500	0.05143		mg/L		103	75 - 125
Bromochloromethane	0.0500	0.05060		mg/L		101	60 - 140
Bromodichloromethane	0.0500	0.05272		mg/L		105	75 - 125
Bromoform	0.0500	0.05169		mg/L		103	70 - 130
Bromomethane	0.0500	0.05329		mg/L		107	60 - 140
2-Butanone	0.250	0.1977		mg/L		79	60 - 140
Carbon tetrachloride	0.0500	0.04888		mg/L		98	70 - 130
Chlorobenzene	0.0500	0.04905		mg/L		98	65 - 135
Chloroethane	0.0500	0.05666		mg/L		113	60 - 140
Chloroform	0.0500	0.04755		mg/L		95	70 - 121
Chloromethane	0.0500	0.04171		mg/L		83	60 - 140
2-Chlorotoluene	0.0500	0.05124		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.04985		mg/L		100	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04557		mg/L		91	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05095		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.05361		mg/L		107	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.03890		mg/L		78	59 - 125
1,2-Dibromoethane	0.0500	0.05017		mg/L		100	73 - 125
1,2-Dichlorobenzene	0.0500	0.05208		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05156		mg/L		103	75 - 125
1,4-Dichlorobenzene	0.0500	0.04979		mg/L		100	75 - 125
Dichlorodifluoromethane	0.0500	0.05091		mg/L		102	50 - 150

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

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

Lab Sample ID: LCS 860-112895/31

Matrix: Water

Analysis Batch: 112895

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS		%Rec
	Added	Result	Qualifier	Unit	D %Rec Limits
1,1-Dichloroethane	0.0500	0.04427		mg/L	89 70 - 130
1,2-Dichloroethane	0.0500	0.05051		mg/L	101 72 - 130
1,1-Dichloroethene	0.0500	0.04606		mg/L	92 50 - 150
1,2-Dichloropropane	0.0500	0.04735		mg/L	95 74 - 125
1,3-Dichloropropane	0.0500	0.04833		mg/L	97 75 - 125
2,2-Dichloropropane	0.0500	0.04900		mg/L	98 75 - 125
1,1-Dichloropropene	0.0500	0.04697		mg/L	94 75 - 125
Ethylbenzene	0.0500	0.05103		mg/L	102 75 - 125
Hexachlorobutadiene	0.0500	0.05388		mg/L	108 75 - 125
Isopropylbenzene	0.0500	0.05314		mg/L	106 75 - 125
Methylene Chloride	0.0500	0.03971		mg/L	79 71 - 125
m,p-Xylenes	0.0500	0.05153		mg/L	103 75 - 125
MTBE	0.0500	0.04560		mg/L	91 65 - 135
Naphthalene	0.0500	0.04470		mg/L	89 70 - 130
n-Butylbenzene	0.0500	0.04986		mg/L	100 75 - 125
N-Propylbenzene	0.0500	0.04818		mg/L	96 75 - 125
o-Xylene	0.0500	0.05188		mg/L	104 75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05456		mg/L	109 75 - 125
sec-Butylbenzene	0.0500	0.04903		mg/L	98 75 - 125
Styrene	0.0500	0.05188		mg/L	104 75 - 125
tert-Butylbenzene	0.0500	0.05355		mg/L	107 75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05554		mg/L	111 72 - 125
1,1,1,2,2-Tetrachloroethane	0.0500	0.04280		mg/L	86 74 - 125
Tetrachloroethene	0.0500	0.05690		mg/L	114 71 - 125
Toluene	0.0500	0.05050		mg/L	101 70 - 130
trans-1,2-Dichloroethene	0.0500	0.04422		mg/L	88 75 - 125
trans-1,3-Dichloropropene	0.0500	0.05235		mg/L	105 66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04680		mg/L	94 75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04815		mg/L	96 75 - 135
1,1,1-Trichloroethane	0.0500	0.04791		mg/L	96 70 - 130
1,1,2-Trichloroethane	0.0500	0.04793		mg/L	96 70 - 130
Trichloroethene	0.0500	0.05327		mg/L	107 75 - 135
Trichlorofluoromethane	0.0500	0.05368		mg/L	107 60 - 140
1,2,3-Trichloropropane	0.0500	0.04089		mg/L	82 75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05196		mg/L	104 75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05039		mg/L	101 60 - 140
Vinyl chloride	0.0500	0.06413		mg/L	128 60 - 140

Surrogate	LCS	LCS
	%Recovery	Qualifier Limits
4-Bromofluorobenzene (Surr)	96	74 - 124
Dibromofluoromethane (Surr)	95	75 - 131
1,2-Dichloroethane-d4 (Surr)	105	63 - 144
Toluene-d8 (Surr)	100	80 - 120

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QC Sample Results

Client: Ensolum

Job ID: 880-30809-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-112895/32

Matrix: Water

Analysis Batch: 112895

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.04239		mg/L		85	75 - 125	17	25
Bromobenzene	0.0500	0.04500		mg/L		90	75 - 125	13	25
Bromochloromethane	0.0500	0.04443		mg/L		89	60 - 140	13	25
Bromodichloromethane	0.0500	0.04898		mg/L		98	75 - 125	7	25
Bromoform	0.0500	0.05306		mg/L		106	70 - 130	3	25
Bromomethane	0.0500	0.04678		mg/L		94	60 - 140	13	25
2-Butanone	0.250	0.1953		mg/L		78	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04475		mg/L		90	70 - 130	9	25
Chlorobenzene	0.0500	0.04693		mg/L		94	65 - 135	4	25
Chloroethane	0.0500	0.05719		mg/L		114	60 - 140	1	25
Chloroform	0.0500	0.04277		mg/L		86	70 - 121	11	25
Chloromethane	0.0500	0.03966		mg/L		79	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04571		mg/L		91	73 - 125	11	25
4-Chlorotoluene	0.0500	0.04521		mg/L		90	74 - 125	10	25
cis-1,2-Dichloroethene	0.0500	0.04038		mg/L		81	75 - 125	12	25
cis-1,3-Dichloropropene	0.0500	0.04824		mg/L		96	74 - 125	5	25
Dibromochloromethane	0.0500	0.05269		mg/L		105	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.03688		mg/L		74	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.04781		mg/L		96	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04705		mg/L		94	75 - 125	10	25
1,3-Dichlorobenzene	0.0500	0.04607		mg/L		92	75 - 125	11	25
1,4-Dichlorobenzene	0.0500	0.04552		mg/L		91	75 - 125	9	25
Dichlorodifluoromethane	0.0500	0.05114		mg/L		102	50 - 150	0	25
1,1-Dichloroethane	0.0500	0.03986		mg/L		80	70 - 130	10	25
1,2-Dichloroethane	0.0500	0.04630		mg/L		93	72 - 130	9	25
1,1-Dichloroethene	0.0500	0.04374		mg/L		87	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04325		mg/L		87	74 - 125	9	25
1,3-Dichloropropane	0.0500	0.04439		mg/L		89	75 - 125	9	25
2,2-Dichloropropane	0.0500	0.04661		mg/L		93	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.04189		mg/L		84	75 - 125	11	25
Ethylbenzene	0.0500	0.04813		mg/L		96	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.04476		mg/L		90	75 - 125	18	25
Isopropylbenzene	0.0500	0.05053		mg/L		101	75 - 125	5	25
Methylene Chloride	0.0500	0.03712		mg/L		74	71 - 125	7	25
m,p-Xylenes	0.0500	0.04900		mg/L		98	75 - 125	5	25
MTBE	0.0500	0.04516		mg/L		90	65 - 135	1	25
Naphthalene	0.0500	0.04101		mg/L		82	70 - 130	9	25
n-Butylbenzene	0.0500	0.04482		mg/L		90	75 - 125	11	25
N-Propylbenzene	0.0500	0.04500		mg/L		90	75 - 125	7	25
o-Xylene	0.0500	0.05006		mg/L		100	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04930		mg/L		99	75 - 125	10	25
sec-Butylbenzene	0.0500	0.04531		mg/L		91	75 - 125	8	25
Styrene	0.0500	0.05046		mg/L		101	75 - 125	3	25
tert-Butylbenzene	0.0500	0.04814		mg/L		96	75 - 125	11	25
1,1,1,2-Tetrachloroethane	0.0500	0.05284		mg/L		106	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.03775		mg/L		75	74 - 125	13	25
Tetrachloroethene	0.0500	0.05298		mg/L		106	71 - 125	7	25
Toluene	0.0500	0.04518		mg/L		90	70 - 130	11	25

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QC Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

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

Lab Sample ID: LCSD 860-112895/32

Matrix: Water

Analysis Batch: 112895

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
trans-1,2-Dichloroethene	0.0500	0.04198		mg/L		84	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.04955		mg/L		99	66 - 125	6	25
1,2,3-Trichlorobenzene	0.0500	0.04065		mg/L		81	75 - 137	14	25
1,2,4-Trichlorobenzene	0.0500	0.04456		mg/L		89	75 - 135	8	25
1,1,1-Trichloroethane	0.0500	0.04490		mg/L		90	70 - 130	6	25
1,1,2-Trichloroethane	0.0500	0.04489		mg/L		90	70 - 130	7	25
Trichloroethene	0.0500	0.05076		mg/L		102	75 - 135	5	25
Trichlorofluoromethane	0.0500	0.05075		mg/L		101	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.03759		mg/L		75	75 - 125	8	25
1,2,4-Trimethylbenzene	0.0500	0.04702		mg/L		94	75 - 125	10	25
1,3,5-Trimethylbenzene	0.0500	0.04542		mg/L		91	60 - 140	10	25
Vinyl chloride	0.0500	0.05388		mg/L		108	60 - 140	17	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	95		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	98		80 - 120

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

Lab Sample ID: MB 860-113274/1-A

Matrix: Water

Analysis Batch: 113228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113274

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		07/20/23 13:35	07/21/23 02:55	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		07/20/23 13:35	07/21/23 02:55	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		07/20/23 13:35	07/21/23 02:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	07/20/23 13:35	07/21/23 02:55	1
o-Terphenyl	94		70 - 135	07/20/23 13:35	07/21/23 02:55	1

Lab Sample ID: LCS 860-113274/2-A

Matrix: Water

Analysis Batch: 113228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	117	131.4		mg/L		112	70 - 135
Diesel Range Organics (Over C10-C28)	101	91.15		mg/L		91	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 135
o-Terphenyl	95		70 - 135

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

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

Lab Sample ID: LCSD 860-113274/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 113228				Prep Batch: 113274							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			117	136.7		mg/L		117	70 - 135	4	35
Diesel Range Organics (Over C10-C28)			101	93.86		mg/L		93	70 - 135	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	112		70 - 135								
o-Terphenyl	97		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-112821/3				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 112821											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<0.250	U	0.500	0.250 mg/L			07/18/23 12:57	1			
Fluoride	<0.100	U	0.500	0.100 mg/L			07/18/23 12:57	1			
Sulfate	<0.200	U	0.500	0.200 mg/L			07/18/23 12:57	1			

Lab Sample ID: LCS 860-112821/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 112821											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.659		mg/L		97	90 - 110		
Fluoride			10.0	9.879		mg/L		99	90 - 110		
Sulfate			10.0	10.40		mg/L		104	90 - 110		

Lab Sample ID: LCSD 860-112821/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 112821											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.734		mg/L		97	90 - 110	1	20
Fluoride			10.0	9.969		mg/L		100	90 - 110	1	20
Sulfate			10.0	10.48		mg/L		105	90 - 110	1	20

Lab Sample ID: LLCS 860-112821/7				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 112821											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.4773	J	mg/L		95	50 - 150		
Fluoride			0.500	0.3533	J	mg/L		71	50 - 150		
Sulfate			0.500	0.4504	J	mg/L		90	50 - 150		

QC Sample Results

Client: Ensolum

Job ID: 880-30809-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-112822/3

Matrix: Water

Analysis Batch: 112822

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/18/23 12:57	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/18/23 12:57	1

Lab Sample ID: LCS 860-112822/4

Matrix: Water

Analysis Batch: 112822

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.846		mg/L		98	80 - 120
Nitrite as N	10.0	9.771		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-112822/5

Matrix: Water

Analysis Batch: 112822

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
Nitrate as N	10.0	9.908		mg/L		99	80 - 120	1	20
Nitrite as N	10.0	9.873		mg/L		99	80 - 120	1	20

Lab Sample ID: LLCS 860-112822/6

Matrix: Water

Analysis Batch: 112822

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.06733	J	mg/L		67	50 - 150
Nitrite as N	0.100	0.07635	J	mg/L		76	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-112979/3

Matrix: Water

Analysis Batch: 112979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00 mg/L			07/18/23 17:44	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/18/23 17:44	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			07/18/23 17:44	1

Lab Sample ID: LCS 860-112979/4

Matrix: Water

Analysis Batch: 112979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	239.3		mg/L		96	85 - 115

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QC Sample Results

Client: Ensolum

Job ID: 880-30809-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-112979/5

Matrix: Water

Analysis Batch: 112979

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
Alkalinity	250	239.8		mg/L		96	85 - 115	0	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-113080/3

Matrix: Water

Analysis Batch: 113080

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved	<0.0400	U	0.100	0.0400 mg/L			07/19/23 14:17	1

Lab Sample ID: LCS 860-113080/4

Matrix: Water

Analysis Batch: 113080

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Dissolved	1.00	0.9143		mg/L		91	90 - 110

Lab Sample ID: LCSD 860-113080/5

Matrix: Water

Analysis Batch: 113080

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
Sulfide, Dissolved	1.00	0.9127		mg/L		91	90 - 110	0	20

Lab Sample ID: 880-30809-1 MS

Matrix: Water

Analysis Batch: 113080

Client Sample ID: MW-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Dissolved	<0.0400	U F1	1.00	0.7458	F1	mg/L		75	90 - 110		

Lab Sample ID: 880-30809-1 MSD

Matrix: Water

Analysis Batch: 113080

Client Sample ID: MW-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Dissolved	<0.0400	U F1	1.00	0.7489	F1	mg/L		75	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-30809-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 112895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	8260C	
880-30809-2	MW-2	Total/NA	Water	8260C	
MB 860-112895/9	Method Blank	Total/NA	Water	8260C	
LCS 860-112895/31	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-112895/32	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	8015 NM	
880-30809-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 113228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	8015B NM	113274
880-30809-2	MW-2	Total/NA	Water	8015B NM	113274
MB 860-113274/1-A	Method Blank	Total/NA	Water	8015B NM	113274
LCS 860-113274/2-A	Lab Control Sample	Total/NA	Water	8015B NM	113274
LCSD 860-113274/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	113274

Prep Batch: 113274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-30809-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-113274/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-113274/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-113274/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 112821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	300.0	
880-30809-2	MW-2	Total/NA	Water	300.0	
MB 860-112821/3	Method Blank	Total/NA	Water	300.0	
LCS 860-112821/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112821/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112821/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 112822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	300.0	
880-30809-2	MW-2	Total/NA	Water	300.0	
MB 860-112822/3	Method Blank	Total/NA	Water	300.0	
LCS 860-112822/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112822/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112822/6	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

General Chemistry

Analysis Batch: 112979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	SM 2320B	
880-30809-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-112979/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-112979/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-112979/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Filtration Batch: 113073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Dissolved	Water	Filtration	
880-30809-1 MS	MW-1	Dissolved	Water	Filtration	
880-30809-1 MSD	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 113080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Dissolved	Water	SM 4500 S2 D	113073
MB 860-113080/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-113080/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-113080/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
880-30809-1 MS	MW-1	Dissolved	Water	SM 4500 S2 D	113073
880-30809-1 MSD	MW-1	Dissolved	Water	SM 4500 S2 D	113073

Analysis Batch: 113110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-30809-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 114056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30809-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-30809-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

Client Sample ID: MW-1

Date Collected: 07/17/23 10:35

Date Received: 07/17/23 15:44

Lab Sample ID: 880-30809-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	112895	AN	EET HOU	07/19/23 04:33
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	07/25/23 11:25
Total/NA	Prep	8015NM Aq Prep			113274	SAR	EET HOU	07/20/23 13:35
Total/NA	Analysis	8015B NM		1	113228	T1S	EET HOU	07/21/23 03:59
Total/NA	Analysis	300.0		1	112821	WP	EET HOU	07/18/23 19:34
Total/NA	Analysis	300.0		1	112822	WP	EET HOU	07/18/23 19:34
Total/NA	Analysis	SM 2320B		1	112979	TL	EET HOU	07/18/23 20:48
Total/NA	Analysis	SM 4500 CO2 D		1	114056	MC	EET HOU	07/25/23 15:17
Total/NA	Analysis	SM 4500 H+ B		1	113110	TL	EET HOU	07/19/23 16:51
Dissolved	Filtration	Filtration			113073	SCI	EET HOU	07/19/23 14:03
Dissolved	Analysis	SM 4500 S2 D		1	113080	SCI	EET HOU	07/19/23 14:17

Client Sample ID: MW-2

Date Collected: 07/17/23 11:50

Date Received: 07/17/23 15:44

Lab Sample ID: 880-30809-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	112895	AN	EET HOU	07/19/23 04:52
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	07/25/23 11:25
Total/NA	Prep	8015NM Aq Prep			113274	SAR	EET HOU	07/20/23 13:35
Total/NA	Analysis	8015B NM		1	113228	T1S	EET HOU	07/21/23 04:20
Total/NA	Analysis	300.0		1	112821	WP	EET HOU	07/18/23 19:49
Total/NA	Analysis	300.0		1	112822	WP	EET HOU	07/18/23 19:49
Total/NA	Analysis	SM 2320B		1	112979	TL	EET HOU	07/18/23 21:04
Total/NA	Analysis	SM 4500 CO2 D		1	114056	MC	EET HOU	07/25/23 15:17
Total/NA	Analysis	SM 4500 H+ B		1	113110	TL	EET HOU	07/19/23 16:54

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 D	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU
Filtration	Sample Filtration	None	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-30809-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30809-1	MW-1	Water	07/17/23 10:35	07/17/23 15:44
880-30809-2	MW-2	Water	07/17/23 11:50	07/17/23 15:44

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- 7
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- 11
- 12
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- 14



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-833-3927)
Hobbs NM (575-392-7550)

880-30809 Chain of Custody

Project Manager:	Beaux Jennings	Bill to, (if different)	
Company Name:	Ensolum LLC	Company Name	
Address	601 Marnefeld #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 ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other ☐

Project Name		South Hobbs		Turn Around		ANALYSIS REQUEST										Work Order Notes			
Project Number:		03B1417002		Routine ☐															
P O Number:		03B1417002		Rush 24 Hr															
Sampler's Name:		Shane Diller		Due Date															
SAMPLE RECEIPT						Temp Blank		Yes ☒ No ☐		Wet Ice		Yes ☒ No ☐		TAT starts the day received by the lab if received by 4:30pm					
Temperature (°C):		3-4/3.1		Thermometer ID		7749		7749											
Received Intact:		Yes ☒ No ☐																	
Cooler Custody Seals		Yes ☐ No ☒		Correction Factor															
Sample Custody Seals:		Yes ☐ No ☒		Total Containers:															
Number of Containers														ANALYSIS REQUEST				Work Order Notes	
Reduced Carbon Dioxide 4500 CO2 c																			
Reduced Sulfide SW-846 #376.2																			
SW-846 #8260																			
SW-846 Method #8015																			
SW-846 Method #846 300														ANALYSIS REQUEST				Work Order Notes	
SW-846 Method 150.1																			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	Dissolve	Dissolve	VOC SW	TPH EPA	Chloride	pH EPA	Sample Comments									
MW-1	GW	7-17-23	1035	-	7	X	X	X	X	X	X	24 Hr									
MW-2	GW	7-17-23	1150	-	7	X	X	X	X	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	SiO2	Na	Sr	Ti	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	Ti	U					1631 / 245.1	77470 / 77471	Hg					

reduce significant or unsolicited and reimbursement for samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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 		11/17/23	2		
3		1/15/24	4		
5			6		

Environment 'Test' ng



Chain of Custody Record

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

[illegible]

1507

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-30809-1

Login Number: 30809

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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: 880-30809-1

Login Number: 30809

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 07/18/23 02:02 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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/1/2023 3:33:48 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-31346-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

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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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Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Laboratory Job ID: 880-31346-1

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Qualifiers

GC/MS 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.

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.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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 Hobbs - 03B1417002

Job ID: 880-31346-1

Job ID: 880-31346-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-31346-1

Receipt

The samples were received on 7/27/2023 2:55 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 3.2°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-114848 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The continuing calibration blank for analytical batch 860-115018 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the continuing calibration blank. The data have been reported.

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for analytical batch 860-115018 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/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

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

General Chemistry

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

Client Sample Results

Client: Ensolum

Job ID: 880-31346-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-31346-1

Date Collected: 07/27/23 09:55

Matrix: Water

Date Received: 07/27/23 14:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L		07/31/23 11:42	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		07/31/23 11:42	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		07/31/23 11:42	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		07/31/23 11:42	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		07/31/23 11:42	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		07/31/23 11:42	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		07/31/23 11:42	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		07/31/23 11:42	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		07/31/23 11:42	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		07/31/23 11:42	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		07/31/23 11:42	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		07/31/23 11:42	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		07/31/23 11:42	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		07/31/23 11:42	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		07/31/23 11:42	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		07/31/23 11:42	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		07/31/23 11:42	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		07/31/23 11:42	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		07/31/23 11:42	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		07/31/23 11:42	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/31/23 11:42	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		07/31/23 11:42	1
Dichlorodifluoromethane	<0.000919	U F1	0.00100	0.000919	mg/L		07/31/23 11:42	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		07/31/23 11:42	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		07/31/23 11:42	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		07/31/23 11:42	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		07/31/23 11:42	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		07/31/23 11:42	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		07/31/23 11:42	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		07/31/23 11:42	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		07/31/23 11:42	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		07/31/23 11:42	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		07/31/23 11:42	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		07/31/23 11:42	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		07/31/23 11:42	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		07/31/23 11:42	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		07/31/23 11:42	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		07/31/23 11:42	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		07/31/23 11:42	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		07/31/23 11:42	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		07/31/23 11:42	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		07/31/23 11:42	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		07/31/23 11:42	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		07/31/23 11:42	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		07/31/23 11:42	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		07/31/23 11:42	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		07/31/23 11:42	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		07/31/23 11:42	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		07/31/23 11:42	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Client Sample ID: MW-1

Lab Sample ID: 880-31346-1

Date Collected: 07/27/23 09:55

Matrix: Water

Date Received: 07/27/23 14:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/31/23 11:42	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/31/23 11:42	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/31/23 11:42	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/31/23 11:42	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/31/23 11:42	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/31/23 11:42	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/31/23 11:42	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/31/23 11:42	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/31/23 11:42	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/31/23 11:42	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/31/23 11:42	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/31/23 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		07/31/23 11:42	1
Dibromofluoromethane (Surr)	104		75 - 131		07/31/23 11:42	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		07/31/23 11:42	1
Toluene-d8 (Surr)	104		80 - 120		07/31/23 11:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.929	U	4.70	0.929 mg/L			08/01/23 11:25	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	<0.929	U	4.70	0.929 mg/L		07/31/23 16:55	08/01/23 07:57	1
Diesel Range Organics (Over C10-C28)	<0.929	U	4.70	0.929 mg/L		07/31/23 16:55	08/01/23 07:57	1
Oil Range Organics (Over C28-C36)	<0.897	U	4.70	0.897 mg/L		07/31/23 16:55	08/01/23 07:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 135			07/31/23 16:55	08/01/23 07:57	1
o-Terphenyl	108		70 - 135			07/31/23 16:55	08/01/23 07:57	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		0.500	0.250 mg/L			07/31/23 14:41	1
Nitrate as N	0.183		0.100	0.0391 mg/L			07/29/23 00:49	1
Fluoride	0.536		0.500	0.100 mg/L			07/29/23 00:49	1
Nitrite as N	0.701		0.100	0.0293 mg/L			07/29/23 00:49	1
Sulfate	53.2		0.500	0.200 mg/L			07/29/23 00:49	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	651		4.00	4.00 mg/L			07/29/23 12:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	651		4.00	4.00 mg/L			07/29/23 12:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			07/29/23 12:49	1
Carbon dioxide (SM 4500 CO2 D)	736			mg/L			07/30/23 14:59	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Client Sample ID: MW-1
Date Collected: 07/27/23 09:55
Date Received: 07/27/23 14:55

Lab Sample ID: 880-31346-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	164			mg/L			07/30/23 14:59	1	
pH (SM 4500 H+ B)	6.9	HF		SU			07/28/23 17:48	1	
Temperature (SM 4500 H+ B)	21.4	HF		Degrees C			07/28/23 17:48	1	

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Sulfide, Dissolved (SM 4500 S2 D)	<0.0400	U	0.100	0.0400 mg/L			07/31/23 12:52	1	

Client Sample ID: MW-2
Date Collected: 07/27/23 11:05
Date Received: 07/27/23 14:55

Lab Sample ID: 880-31346-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	0.0194		0.00100	0.000460 mg/L			07/31/23 12:03	1	
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/31/23 12:03	1	
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/31/23 12:03	1	
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/31/23 12:03	1	
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/31/23 12:03	1	
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/31/23 12:03	1	
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/31/23 12:03	1	
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/31/23 12:03	1	
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/31/23 12:03	1	
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/31/23 12:03	1	
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/31/23 12:03	1	
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/31/23 12:03	1	
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/31/23 12:03	1	
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/31/23 12:03	1	
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/31/23 12:03	1	
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/31/23 12:03	1	
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/31/23 12:03	1	
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/31/23 12:03	1	
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/31/23 12:03	1	
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/31/23 12:03	1	
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/31/23 12:03	1	
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/31/23 12:03	1	
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/31/23 12:03	1	
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/31/23 12:03	1	
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/31/23 12:03	1	
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/31/23 12:03	1	
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/31/23 12:03	1	
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/31/23 12:03	1	
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/31/23 12:03	1	
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/31/23 12:03	1	
Ethylbenzene	0.0193		0.00100	0.000411 mg/L			07/31/23 12:03	1	
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/31/23 12:03	1	
Isopropylbenzene	0.0100		0.00100	0.000613 mg/L			07/31/23 12:03	1	
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/31/23 12:03	1	
m,p-Xylenes	0.0487		0.0100	0.00124 mg/L			07/31/23 12:03	1	

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Client Sample ID: MW-2

Lab Sample ID: 880-31346-2

Date Collected: 07/27/23 11:05

Matrix: Water

Date Received: 07/27/23 14:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/31/23 12:03	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/31/23 12:03	1
n-Butylbenzene	0.000772	J	0.00100	0.000644 mg/L			07/31/23 12:03	1
N-Propylbenzene	0.00265		0.00100	0.000498 mg/L			07/31/23 12:03	1
o-Xylene	0.0136		0.00100	0.000551 mg/L			07/31/23 12:03	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/31/23 12:03	1
sec-Butylbenzene	0.00105		0.00100	0.000468 mg/L			07/31/23 12:03	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/31/23 12:03	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/31/23 12:03	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/31/23 12:03	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/31/23 12:03	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/31/23 12:03	1
Toluene	0.00357		0.00100	0.000475 mg/L			07/31/23 12:03	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/31/23 12:03	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/31/23 12:03	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/31/23 12:03	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/31/23 12:03	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/31/23 12:03	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/31/23 12:03	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/31/23 12:03	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/31/23 12:03	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/31/23 12:03	1
1,2,4-Trimethylbenzene	0.0274		0.00100	0.000417 mg/L			07/31/23 12:03	1
1,3,5-Trimethylbenzene	0.00651		0.00100	0.000456 mg/L			07/31/23 12:03	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/31/23 12:03	1
Xylenes, Total	0.0623		0.0100	0.00124 mg/L			07/31/23 12:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 124				07/31/23 12:03	1
Dibromofluoromethane (Surr)	101		75 - 131				07/31/23 12:03	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144				07/31/23 12:03	1
Toluene-d8 (Surr)	97		80 - 120				07/31/23 12:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.15	J	4.55	0.898 mg/L			08/01/23 11:25	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	1.15	J	4.55	0.898 mg/L		07/31/23 16:55	08/01/23 08:19	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898 mg/L		07/31/23 16:55	08/01/23 08:19	1
Oil Range Organics (Over C28-C36)	<0.867	U	4.55	0.867 mg/L		07/31/23 16:55	08/01/23 08:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 135			07/31/23 16:55	08/01/23 08:19	1
o-Terphenyl	108		70 - 135			07/31/23 16:55	08/01/23 08:19	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Client Sample ID: MW-2
Date Collected: 07/27/23 11:05
Date Received: 07/27/23 14:55

Lab Sample ID: 880-31346-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.4		0.500	0.250	mg/L			07/31/23 14:51	1
Nitrate as N	0.217		0.100	0.0391	mg/L			07/29/23 01:09	1
Fluoride	0.181	J	0.500	0.100	mg/L			07/29/23 01:09	1
Nitrite as N	1.38		0.100	0.0293	mg/L			07/29/23 01:09	1
Sulfate	88.6		0.500	0.200	mg/L			07/29/23 01:09	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1270		4.00	4.00	mg/L			07/29/23 13:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1270		4.00	4.00	mg/L			07/29/23 13:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/29/23 13:17	1
Carbon dioxide (SM 4500 CO2 D)	2380				mg/L			07/30/23 14:59	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1270				mg/L			07/30/23 14:59	1
pH (SM 4500 H+ B)	6.3	HF			SU			07/28/23 17:51	1
Temperature (SM 4500 H+ B)	20.6	HF			Degrees C			07/28/23 17:51	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (74-124)	DBFM (75-131)	DCA (63-144)	TOL (80-120)
880-31346-1	MW-1	102	104	105	104
880-31346-1 MS	MW-1	94	103	100	99
880-31346-2	MW-2	92	101	105	97
LCS 860-114848/3	Lab Control Sample	97	102	103	100
LCSD 860-114848/4	Lab Control Sample Dup	98	104	102	102
MB 860-114848/10	Method Blank	94	104	104	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (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)
880-31346-1	MW-1	79	108
880-31346-2	MW-2	75	108
LCS 860-115033/2-A	Lab Control Sample	93	107
LCSD 860-115033/3-A	Lab Control Sample Dup	92	106
MB 860-115033/1-A	Method Blank	79	112
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-31346-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-114848/10

Matrix: Water

Analysis Batch: 114848

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			07/31/23 11:22	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			07/31/23 11:22	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			07/31/23 11:22	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			07/31/23 11:22	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			07/31/23 11:22	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			07/31/23 11:22	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			07/31/23 11:22	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			07/31/23 11:22	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			07/31/23 11:22	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			07/31/23 11:22	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			07/31/23 11:22	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			07/31/23 11:22	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			07/31/23 11:22	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			07/31/23 11:22	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			07/31/23 11:22	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			07/31/23 11:22	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			07/31/23 11:22	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			07/31/23 11:22	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			07/31/23 11:22	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			07/31/23 11:22	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/31/23 11:22	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			07/31/23 11:22	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			07/31/23 11:22	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			07/31/23 11:22	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			07/31/23 11:22	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			07/31/23 11:22	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			07/31/23 11:22	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			07/31/23 11:22	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			07/31/23 11:22	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			07/31/23 11:22	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			07/31/23 11:22	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			07/31/23 11:22	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			07/31/23 11:22	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			07/31/23 11:22	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			07/31/23 11:22	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			07/31/23 11:22	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			07/31/23 11:22	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			07/31/23 11:22	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			07/31/23 11:22	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			07/31/23 11:22	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			07/31/23 11:22	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			07/31/23 11:22	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			07/31/23 11:22	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			07/31/23 11:22	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			07/31/23 11:22	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			07/31/23 11:22	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			07/31/23 11:22	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			07/31/23 11:22	1

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QC Sample Results

Client: Ensolum

Job ID: 880-31346-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-114848/10

Matrix: Water

Analysis Batch: 114848

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			07/31/23 11:22	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			07/31/23 11:22	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			07/31/23 11:22	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			07/31/23 11:22	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			07/31/23 11:22	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			07/31/23 11:22	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			07/31/23 11:22	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			07/31/23 11:22	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			07/31/23 11:22	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			07/31/23 11:22	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			07/31/23 11:22	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			07/31/23 11:22	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			07/31/23 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 124		07/31/23 11:22	1
Dibromofluoromethane (Surr)	104		75 - 131		07/31/23 11:22	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		07/31/23 11:22	1
Toluene-d8 (Surr)	101		80 - 120		07/31/23 11:22	1

Lab Sample ID: LCS 860-114848/3

Matrix: Water

Analysis Batch: 114848

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	0.04897		mg/L		98	75 - 125
Bromobenzene	0.0500	0.04730		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.04776		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.04430		mg/L		89	75 - 125
Bromoform	0.0500	0.04197		mg/L		84	70 - 130
Bromomethane	0.0500	0.05407		mg/L		108	60 - 140
2-Butanone	0.250	0.2235		mg/L		89	60 - 140
Carbon tetrachloride	0.0500	0.04653		mg/L		93	70 - 130
Chlorobenzene	0.0500	0.04707		mg/L		94	65 - 135
Chloroethane	0.0500	0.05034		mg/L		101	60 - 140
Chloroform	0.0500	0.04619		mg/L		92	70 - 121
Chloromethane	0.0500	0.04368		mg/L		87	60 - 140
2-Chlorotoluene	0.0500	0.04749		mg/L		95	73 - 125
4-Chlorotoluene	0.0500	0.04835		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04765		mg/L		95	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04738		mg/L		95	74 - 125
Dibromochloromethane	0.0500	0.04391		mg/L		88	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04249		mg/L		85	59 - 125
1,2-Dibromoethane	0.0500	0.04538		mg/L		91	73 - 125
1,2-Dichlorobenzene	0.0500	0.04788		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04740		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04761		mg/L		95	75 - 125
Dichlorodifluoromethane	0.0500	0.04587		mg/L		92	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-31346-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-114848/4

Matrix: Water

Analysis Batch: 114848

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Benzene	0.0500	0.04807		mg/L		96	75 - 125	2	25
Bromobenzene	0.0500	0.04901		mg/L		98	75 - 125	4	25
Bromochloromethane	0.0500	0.04838		mg/L		97	60 - 140	1	25
Bromodichloromethane	0.0500	0.04428		mg/L		89	75 - 125	0	25
Bromoform	0.0500	0.04161		mg/L		83	70 - 130	1	25
Bromomethane	0.0500	0.05576		mg/L		112	60 - 140	3	25
2-Butanone	0.250	0.2298		mg/L		92	60 - 140	3	25
Carbon tetrachloride	0.0500	0.04740		mg/L		95	70 - 130	2	25
Chlorobenzene	0.0500	0.04760		mg/L		95	65 - 135	1	25
Chloroethane	0.0500	0.05446		mg/L		109	60 - 140	8	25
Chloroform	0.0500	0.04648		mg/L		93	70 - 121	1	25
Chloromethane	0.0500	0.04462		mg/L		89	60 - 140	2	25
2-Chlorotoluene	0.0500	0.04891		mg/L		98	73 - 125	3	25
4-Chlorotoluene	0.0500	0.04961		mg/L		99	74 - 125	3	25
cis-1,2-Dichloroethene	0.0500	0.04749		mg/L		95	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.04697		mg/L		94	74 - 125	1	25
Dibromochloromethane	0.0500	0.04475		mg/L		89	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04399		mg/L		88	59 - 125	3	25
1,2-Dibromoethane	0.0500	0.04610		mg/L		92	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04943		mg/L		99	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.04952		mg/L		99	75 - 125	4	25
1,4-Dichlorobenzene	0.0500	0.04939		mg/L		99	75 - 125	4	25
Dichlorodifluoromethane	0.0500	0.04435		mg/L		89	50 - 150	3	25
1,1-Dichloroethane	0.0500	0.05451		mg/L		109	70 - 130	2	25
1,2-Dichloroethane	0.0500	0.04623		mg/L		92	72 - 130	0	25
1,1-Dichloroethene	0.0500	0.04755		mg/L		95	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.04858		mg/L		97	74 - 125	1	25
1,3-Dichloropropane	0.0500	0.04718		mg/L		94	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04700		mg/L		94	75 - 125	2	25
1,1-Dichloropropene	0.0500	0.04913		mg/L		98	75 - 125	1	25
Ethylbenzene	0.0500	0.04901		mg/L		98	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.04856		mg/L		97	75 - 125	4	25
Isopropylbenzene	0.0500	0.04786		mg/L		96	75 - 125	1	25
Methylene Chloride	0.0500	0.05180		mg/L		104	71 - 125	1	25
m,p-Xylenes	0.0500	0.04792		mg/L		96	75 - 125	1	25
MTBE	0.0500	0.05099		mg/L		102	65 - 135	1	25
Naphthalene	0.0500	0.04706		mg/L		94	70 - 130	4	25
n-Butylbenzene	0.0500	0.05120		mg/L		102	75 - 125	3	25
N-Propylbenzene	0.0500	0.04999		mg/L		100	75 - 125	2	25
o-Xylene	0.0500	0.04768		mg/L		95	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04895		mg/L		98	75 - 125	2	25
sec-Butylbenzene	0.0500	0.04965		mg/L		99	75 - 125	2	25
Styrene	0.0500	0.04790		mg/L		96	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04844		mg/L		97	75 - 125	2	25
1,1,1,2-Tetrachloroethane	0.0500	0.04618		mg/L		92	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.05114		mg/L		102	74 - 125	3	25
Tetrachloroethene	0.0500	0.04770		mg/L		95	71 - 125	1	25
Toluene	0.0500	0.04744		mg/L		95	70 - 130	1	25

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QC Sample Results

Client: Ensolum

Job ID: 880-31346-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-114848/4

Matrix: Water

Analysis Batch: 114848

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
trans-1,2-Dichloroethene	0.0500	0.05141		mg/L		103	75 - 125	3	25
trans-1,3-Dichloropropene	0.0500	0.04621		mg/L		92	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.04802		mg/L		96	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.04801		mg/L		96	75 - 135	2	25
1,1,1-Trichloroethane	0.0500	0.04775		mg/L		96	70 - 130	0	25
1,1,2-Trichloroethane	0.0500	0.04734		mg/L		95	70 - 130	1	25
Trichloroethene	0.0500	0.04528		mg/L		91	75 - 135	2	25
Trichlorofluoromethane	0.0500	0.05785		mg/L		116	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.04732		mg/L		95	75 - 125	3	25
1,2,4-Trimethylbenzene	0.0500	0.05131		mg/L		103	75 - 125	2	25
1,3,5-Trimethylbenzene	0.0500	0.04804		mg/L		96	60 - 140	2	25
Vinyl chloride	0.0500	0.05222		mg/L		104	60 - 140	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 880-31346-1 MS

Matrix: Water

Analysis Batch: 114848

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000460	U	0.0500	0.04511		mg/L		90	66 - 142
Bromobenzene	<0.000665	U	0.0500	0.04194		mg/L		84	75 - 125
Bromochloromethane	<0.000657	U	0.0500	0.04563		mg/L		91	60 - 140
Bromodichloromethane	<0.000552	U	0.0500	0.04231		mg/L		85	75 - 125
Bromoform	<0.000633	U	0.0500	0.03871		mg/L		77	75 - 125
Bromomethane	<0.00142	U	0.0500	0.04313		mg/L		86	60 - 140
2-Butanone	<0.00828	U	0.250	0.2091		mg/L		84	60 - 140
Carbon tetrachloride	<0.000896	U	0.0500	0.04195		mg/L		84	62 - 125
Chlorobenzene	<0.000530	U	0.0500	0.04365		mg/L		87	60 - 133
Chloroethane	<0.00198	U	0.0500	0.04629		mg/L		93	60 - 140
Chloroform	<0.000643	U	0.0500	0.04363		mg/L		87	70 - 130
Chloromethane	<0.00204	U	0.0500	0.03736		mg/L		75	60 - 140
2-Chlorotoluene	<0.00118	U	0.0500	0.04156		mg/L		83	73 - 125
4-Chlorotoluene	<0.000472	U	0.0500	0.04253		mg/L		85	74 - 125
cis-1,2-Dichloroethene	<0.000714	U	0.0500	0.04484		mg/L		90	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	0.0500	0.04455		mg/L		89	74 - 125
Dibromochloromethane	<0.000547	U	0.0500	0.04176		mg/L		84	73 - 125
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.0500	0.03676		mg/L		74	59 - 125
1,2-Dibromoethane	<0.000999	U	0.0500	0.04185		mg/L		84	73 - 125
1,2-Dichlorobenzene	<0.000509	U	0.0500	0.04259		mg/L		85	75 - 125
1,3-Dichlorobenzene	<0.000513	U	0.0500	0.04274		mg/L		85	75 - 125
1,4-Dichlorobenzene	<0.000513	U	0.0500	0.04258		mg/L		85	75 - 125
Dichlorodifluoromethane	<0.000919	U F1	0.0500	0.02951	F1	mg/L		59	70 - 130
1,1-Dichloroethane	<0.000635	U	0.0500	0.05057		mg/L		101	72 - 125

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

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

Lab Sample ID: 880-31346-1 MS					Client Sample ID: MW-1						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 114848											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,2-Dichloroethane	<0.000590	U	0.0500	0.04380		mg/L		88	68 - 127		
1,1-Dichloroethene	<0.000738	U	0.0500	0.04022		mg/L		80	59 - 172		
1,2-Dichloropropane	<0.000667	U	0.0500	0.04605		mg/L		92	74 - 125		
1,3-Dichloropropane	<0.000514	U	0.0500	0.04402		mg/L		88	75 - 125		
2,2-Dichloropropane	<0.000780	U	0.0500	0.04315		mg/L		86	75 - 125		
1,1-Dichloropropene	<0.00160	U	0.0500	0.04417		mg/L		88	75 - 125		
Ethylbenzene	<0.000411	U	0.0500	0.04430		mg/L		89	75 - 125		
Hexachlorobutadiene	<0.00126	U	0.0500	0.03995		mg/L		80	75 - 125		
Isopropylbenzene	<0.000613	U	0.0500	0.04342		mg/L		87	75 - 125		
Methylene Chloride	<0.00173	U	0.0500	0.04810		mg/L		96	75 - 125		
m,p-Xylenes	<0.00124	U	0.0500	0.04413		mg/L		88	75 - 125		
MTBE	<0.00139	U	0.0500	0.04833		mg/L		97	65 - 135		
Naphthalene	<0.00135	U	0.0500	0.04025		mg/L		80	70 - 130		
n-Butylbenzene	<0.000644	U	0.0500	0.04223		mg/L		84	75 - 125		
N-Propylbenzene	<0.000498	U	0.0500	0.04178		mg/L		84	75 - 125		
o-Xylene	<0.000551	U	0.0500	0.04377		mg/L		88	75 - 125		
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.0500	0.04086		mg/L		82	75 - 125		
sec-Butylbenzene	<0.000468	U	0.0500	0.04126		mg/L		83	75 - 125		
Styrene	<0.000655	U	0.0500	0.04352		mg/L		87	75 - 125		
tert-Butylbenzene	<0.000442	U	0.0500	0.04046		mg/L		81	75 - 125		
1,1,1,2-Tetrachloroethane	<0.000644	U	0.0500	0.04221		mg/L		84	72 - 125		
1,1,2,2-Tetrachloroethane	<0.000470	U	0.0500	0.04353		mg/L		87	74 - 125		
Tetrachloroethene	<0.000801	U	0.0500	0.04179		mg/L		84	71 - 125		
Toluene	<0.000475	U	0.0500	0.04333		mg/L		87	59 - 139		
trans-1,2-Dichloroethene	<0.000945	U	0.0500	0.04708		mg/L		94	75 - 125		
trans-1,3-Dichloropropene	<0.00127	U	0.0500	0.04266		mg/L		85	66 - 125		
1,2,3-Trichlorobenzene	<0.00217	U	0.0500	0.04086		mg/L		82	75 - 137		
1,2,4-Trichlorobenzene	<0.00175	U	0.0500	0.04142		mg/L		83	75 - 135		
1,1,1-Trichloroethane	<0.00169	U	0.0500	0.04359		mg/L		87	75 - 125		
1,1,2-Trichloroethane	<0.000511	U	0.0500	0.04447		mg/L		89	75 - 127		
Trichloroethene	<0.000791	U	0.0500	0.04230		mg/L		85	62 - 137		
Trichlorofluoromethane	<0.000638	U	0.0500	0.04792		mg/L		96	60 - 140		
1,2,3-Trichloropropane	<0.000490	U	0.0500	0.04179		mg/L		84	75 - 125		
1,2,4-Trimethylbenzene	<0.000417	U	0.0500	0.04434		mg/L		89	75 - 125		
1,3,5-Trimethylbenzene	<0.000456	U	0.0500	0.04057		mg/L		81	70 - 125		
Vinyl chloride	<0.000638	U	0.0500	0.04471		mg/L		89	60 - 140		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		74 - 124								
Dibromofluoromethane (Surr)	103		75 - 131								
1,2-Dichloroethane-d4 (Surr)	100		63 - 144								
Toluene-d8 (Surr)	99		80 - 120								

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

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

Lab Sample ID: MB 860-115033/1-A
Matrix: Water
Analysis Batch: 114982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115033

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		07/31/23 16:55	08/01/23 07:36	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		07/31/23 16:55	08/01/23 07:36	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		07/31/23 16:55	08/01/23 07:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 135	07/31/23 16:55	08/01/23 07:36	1
o-Terphenyl	112		70 - 135	07/31/23 16:55	08/01/23 07:36	1

Lab Sample ID: LCS 860-115033/2-A
Matrix: Water
Analysis Batch: 114982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.2	109.5		mg/L		110	70 - 135
Diesel Range Organics (Over C10-C28)	99.7	100.8		mg/L		101	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 135
o-Terphenyl	107		70 - 135

Lab Sample ID: LCSD 860-115033/3-A
Matrix: Water
Analysis Batch: 114982

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115033

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.2	112.9		mg/L		114	70 - 135	3	35
Diesel Range Organics (Over C10-C28)	99.7	104.2		mg/L		105	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	92		70 - 135
o-Terphenyl	106		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-114618/3
Matrix: Water
Analysis Batch: 114618

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250 mg/L			07/28/23 10:29	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/23 10:29	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/28/23 10:29	1

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QC Sample Results

Client: Ensolum

Job ID: 880-31346-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-114618/40

Matrix: Water

Analysis Batch: 114618

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2844	J	0.500	0.250 mg/L			07/28/23 17:57	1
Fluoride	<0.100	U	0.500	0.100 mg/L			07/28/23 17:57	1
Sulfate	<0.200	U	0.500	0.200 mg/L			07/28/23 17:57	1

Lab Sample ID: LCS 860-114618/41

Matrix: Water

Analysis Batch: 114618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.13		mg/L		101	90 - 110
Fluoride	10.0	10.29		mg/L		103	90 - 110
Sulfate	10.0	10.03		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-114618/42

Matrix: Water

Analysis Batch: 114618

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
Fluoride	10.0	10.44		mg/L		104	90 - 110	1	20
Sulfate	10.0	10.02		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-114618/7

Matrix: Water

Analysis Batch: 114618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5133		mg/L		103	50 - 150
Fluoride	0.500	0.5605		mg/L		112	50 - 150
Sulfate	0.500	0.4822	J	mg/L		96	50 - 150

Lab Sample ID: MB 860-114619/3

Matrix: Water

Analysis Batch: 114619

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/28/23 10:29	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/23 10:29	1

Lab Sample ID: MB 860-114619/40

Matrix: Water

Analysis Batch: 114619

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			07/28/23 17:57	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			07/28/23 17:57	1

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QC Sample Results

Client: Ensolum

Job ID: 880-31346-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-114619/41

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 114619

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Nitrate as N	10.0	10.06		mg/L		101	80 - 120			
Nitrite as N	10.0	10.00		mg/L		100	80 - 120			

Lab Sample ID: LCSD 860-114619/42

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 114619

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		RPD	Limit
Nitrate as N	10.0	10.06		mg/L		101	80 - 120		0	20
Nitrite as N	10.0	10.00		mg/L		100	80 - 120		0	20

Lab Sample ID: LLCS 860-114619/6

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 114619

	Spike	LLCS	LLCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Nitrate as N	0.100	0.1185		mg/L		118	50 - 150			
Nitrite as N	0.100	0.08640	J	mg/L		86	50 - 150			

Lab Sample ID: MB 860-115018/3

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115018

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<0.250	U	0.500	0.250 mg/L			07/31/23 10:57	1		
Fluoride	<0.100	U	0.500	0.100 mg/L			07/31/23 10:57	1		
Sulfate	<0.200	U	0.500	0.200 mg/L			07/31/23 10:57	1		

Lab Sample ID: LCS 860-115018/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115018

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	10.0	9.876		mg/L		99	90 - 110			
Fluoride	10.0	10.45		mg/L		104	90 - 110			
Sulfate	10.0	9.973		mg/L		100	90 - 110			

Lab Sample ID: LCSD 860-115018/5

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115018

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		RPD	Limit
Chloride	10.0	9.881		mg/L		99	90 - 110		0	20
Fluoride	10.0	10.46		mg/L		105	90 - 110		0	20
Sulfate	10.0	9.993		mg/L		100	90 - 110		0	20

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-115018/7				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 115018							
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5388		mg/L		108	50 - 150
Fluoride	0.500	0.5360		mg/L		107	50 - 150
Sulfate	0.500	0.5206		mg/L		104	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-114798/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 114798									
	MB	MB							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			07/29/23 12:21	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			07/29/23 12:21	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			07/29/23 12:21	1

Lab Sample ID: LCS 860-114798/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 114798							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	245.8		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-114798/5						Client Sample ID: Lab Control Sample Dup					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 114798											
				Spike	LCSD	LCSD			%Rec		RPD
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Alkalinity				250	247.9		mg/L		99	85 - 115	1
											20

Lab Sample ID: 880-31346-1 DU							Client Sample ID: MW-1				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 114798											
	Sample	Sample		DU	DU					RPD	
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Alkalinity	651			655.1		mg/L				0.7	20
Bicarbonate Alkalinity as CaCO3	651			655.1		mg/L				0.7	20
Carbonate Alkalinity as CaCO3	<4.00	U		<4.00	U	mg/L				NC	20

QC Association Summary

Client: Ensolum

Job ID: 880-31346-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 114848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	8260C	
880-31346-2	MW-2	Total/NA	Water	8260C	
MB 860-114848/10	Method Blank	Total/NA	Water	8260C	
LCS 860-114848/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-114848/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-31346-1 MS	MW-1	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	8015 NM	
880-31346-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 114982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	8015B NM	115033
880-31346-2	MW-2	Total/NA	Water	8015B NM	115033
MB 860-115033/1-A	Method Blank	Total/NA	Water	8015B NM	115033
LCS 860-115033/2-A	Lab Control Sample	Total/NA	Water	8015B NM	115033
LCSD 860-115033/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	115033

Prep Batch: 115033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-31346-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-115033/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-115033/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-115033/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 114618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	300.0	
880-31346-2	MW-2	Total/NA	Water	300.0	
MB 860-114618/3	Method Blank	Total/NA	Water	300.0	
MB 860-114618/40	Method Blank	Total/NA	Water	300.0	
LCS 860-114618/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-114618/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-114618/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 114619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	300.0	
880-31346-2	MW-2	Total/NA	Water	300.0	
MB 860-114619/3	Method Blank	Total/NA	Water	300.0	
MB 860-114619/40	Method Blank	Total/NA	Water	300.0	
LCS 860-114619/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-114619/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-114619/6	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

HPLC/IC

Analysis Batch: 115018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	300.0	
880-31346-2	MW-2	Total/NA	Water	300.0	
MB 860-115018/3	Method Blank	Total/NA	Water	300.0	
LCS 860-115018/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-115018/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-115018/7	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 114056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-31346-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 114734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-31346-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 114798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Total/NA	Water	SM 2320B	
880-31346-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-114798/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-114798/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-114798/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-31346-1 DU	MW-1	Total/NA	Water	SM 2320B	

Filtration Batch: 114946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 114950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31346-1	MW-1	Dissolved	Water	SM 4500 S2 D	114946

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Client Sample ID: MW-1

Date Collected: 07/27/23 09:55

Date Received: 07/27/23 14:55

Lab Sample ID: 880-31346-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	114848	NA	EET HOU	07/31/23 11:42
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/01/23 11:25
Total/NA	Prep	8015NM Aq Prep			115033	MCA	EET HOU	07/31/23 16:55
Total/NA	Analysis	8015B NM		1	114982	T1S	EET HOU	08/01/23 07:57
Total/NA	Analysis	300.0		1	114618	WP	EET HOU	07/29/23 00:49
Total/NA	Analysis	300.0		1	114619	WP	EET HOU	07/29/23 00:49
Total/NA	Analysis	300.0		1	115018	WP	EET HOU	07/31/23 14:41
Total/NA	Analysis	SM 2320B		1	114798	TL	EET HOU	07/29/23 12:49
Total/NA	Analysis	SM 4500 CO2 D		1	114056	MC	EET HOU	07/30/23 14:59
Total/NA	Analysis	SM 4500 H+ B		1	114734	TL	EET HOU	07/28/23 17:48
Dissolved	Filtration	Filtration			114946	SCI	EET HOU	07/31/23 10:32
Dissolved	Analysis	SM 4500 S2 D		1	114950	SCI	EET HOU	07/31/23 12:52

Client Sample ID: MW-2

Date Collected: 07/27/23 11:05

Date Received: 07/27/23 14:55

Lab Sample ID: 880-31346-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	114848	NA	EET HOU	07/31/23 12:03
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/01/23 11:25
Total/NA	Prep	8015NM Aq Prep			115033	MCA	EET HOU	07/31/23 16:55
Total/NA	Analysis	8015B NM		1	114982	T1S	EET HOU	08/01/23 08:19
Total/NA	Analysis	300.0		1	114618	WP	EET HOU	07/29/23 01:09
Total/NA	Analysis	300.0		1	114619	WP	EET HOU	07/29/23 01:09
Total/NA	Analysis	300.0		1	115018	WP	EET HOU	07/31/23 14:51
Total/NA	Analysis	SM 2320B		1	114798	TL	EET HOU	07/29/23 13:17
Total/NA	Analysis	SM 4500 CO2 D		1	114056	MC	EET HOU	07/30/23 14:59
Total/NA	Analysis	SM 4500 H+ B		1	114734	TL	EET HOU	07/28/23 17:51

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 D	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU
Filtration	Sample Filtration	None	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31346-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31346-1	MW-1	Water	07/27/23 09:55	07/27/23 14:55
880-31346-2	MW-2	Water	07/27/23 11:05	07/27/23 14:55

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-31346-1

Login Number: 31346

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: 880-31346-1

Login Number: 31346
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 07/28/23 02:18 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 8/8/2023 2:08:41 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-31466-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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



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8/8/2023 2:08:41 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Laboratory Job ID: 880-31466-1

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Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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

Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Job ID: 880-31466-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-31466-1****Receipt**

The samples were received on 8/1/2023 8:15 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 0.0°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-115333 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-115333 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-115364 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-115364 contained Chloride and Sulfate greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-116108 contained Chloride and Sulfate greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-116108 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported..

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-115365 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 860-115365 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFMS: The following sample(s) was received with less than 1 hour remaining on the holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-1 (880-31466-1).

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

General Chemistry

Method SM4500_S2_D: The following sample has no preservative.

Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Job ID: 880-31466-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Client Sample ID: MW-1

Lab Sample ID: 880-31466-1

Date Collected: 07/31/23 09:50

Matrix: Water

Date Received: 08/01/23 08:15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L		08/02/23 21:05	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L		08/02/23 21:05	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L		08/02/23 21:05	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		08/02/23 21:05	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		08/02/23 21:05	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		08/02/23 21:05	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		08/02/23 21:05	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		08/02/23 21:05	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L		08/02/23 21:05	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		08/02/23 21:05	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L		08/02/23 21:05	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		08/02/23 21:05	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L		08/02/23 21:05	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L		08/02/23 21:05	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L		08/02/23 21:05	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		08/02/23 21:05	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		08/02/23 21:05	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L		08/02/23 21:05	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		08/02/23 21:05	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L		08/02/23 21:05	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		08/02/23 21:05	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L		08/02/23 21:05	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L		08/02/23 21:05	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		08/02/23 21:05	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L		08/02/23 21:05	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		08/02/23 21:05	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L		08/02/23 21:05	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		08/02/23 21:05	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L		08/02/23 21:05	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L		08/02/23 21:05	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		08/02/23 21:05	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L		08/02/23 21:05	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613	mg/L		08/02/23 21:05	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		08/02/23 21:05	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		08/02/23 21:05	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		08/02/23 21:05	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		08/02/23 21:05	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644	mg/L		08/02/23 21:05	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498	mg/L		08/02/23 21:05	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L		08/02/23 21:05	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919	mg/L		08/02/23 21:05	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		08/02/23 21:05	1
Styrene	<0.000655	U	0.00100	0.000655	mg/L		08/02/23 21:05	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		08/02/23 21:05	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		08/02/23 21:05	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		08/02/23 21:05	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801	mg/L		08/02/23 21:05	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		08/02/23 21:05	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		08/02/23 21:05	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Client Sample ID: MW-1

Lab Sample ID: 880-31466-1

Date Collected: 07/31/23 09:50

Matrix: Water

Date Received: 08/01/23 08:15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			08/02/23 21:05	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			08/02/23 21:05	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			08/02/23 21:05	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			08/02/23 21:05	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			08/02/23 21:05	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			08/02/23 21:05	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			08/02/23 21:05	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			08/02/23 21:05	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			08/02/23 21:05	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456 mg/L			08/02/23 21:05	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			08/02/23 21:05	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			08/02/23 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124				08/02/23 21:05	1
Dibromofluoromethane (Surr)	102		75 - 131				08/02/23 21:05	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144				08/02/23 21:05	1
Toluene-d8 (Surr)	100		80 - 120				08/02/23 21:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.17	U	5.94	1.17 mg/L			08/07/23 13:32	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	<1.17	U	5.94	1.17 mg/L		08/03/23 11:52	08/03/23 19:46	1
Diesel Range Organics (Over C10-C28)	<1.17	U	5.94	1.17 mg/L		08/03/23 11:52	08/03/23 19:46	1
Oil Range Organics (Over C28-C36)	<1.13	U	5.94	1.13 mg/L		08/03/23 11:52	08/03/23 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 135			08/03/23 11:52	08/03/23 19:46	1
o-Terphenyl	107		70 - 135			08/03/23 11:52	08/03/23 19:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		0.500	0.250 mg/L			08/02/23 11:57	1
Nitrate as N	<0.0391	U H	0.100	0.0391 mg/L			08/02/23 11:57	1
Fluoride	0.415	J F1	0.500	0.100 mg/L			08/02/23 11:57	1
Nitrite as N	<0.0293	U H F1 F2	0.100	0.0293 mg/L			08/02/23 11:57	1
Sulfate	61.5		0.500	0.200 mg/L			08/02/23 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	685		4.00	4.00 mg/L			08/03/23 14:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	685		4.00	4.00 mg/L			08/03/23 14:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			08/03/23 14:28	1
Carbon dioxide (SM 4500 CO2 D)	671			mg/L			08/03/23 10:41	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Client Sample ID: MW-1
Date Collected: 07/31/23 09:50
Date Received: 08/01/23 08:15

Lab Sample ID: 880-31466-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	68.6				mg/L			08/03/23 10:41	1
pH (SM 4500 H+ B)	7.3	HF			SU			08/03/23 13:15	1
Temperature (SM 4500 H+ B)	19.0	HF			Celsius			08/03/23 13:15	1
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Dissolved (SM 4500 S2 D)	<0.0400	U	0.100	0.0400	mg/L			08/03/23 16:30	1

Client Sample ID: MW-2
Date Collected: 07/31/23 10:40
Date Received: 08/01/23 08:15

Lab Sample ID: 880-31466-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0154		0.00100	0.000460	mg/L			08/02/23 21:26	1
Bromobenzene	<0.000665	U	0.00100	0.000665	mg/L			08/02/23 21:26	1
Bromochloromethane	<0.000657	U	0.00100	0.000657	mg/L			08/02/23 21:26	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			08/02/23 21:26	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			08/02/23 21:26	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			08/02/23 21:26	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L			08/02/23 21:26	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			08/02/23 21:26	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L			08/02/23 21:26	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			08/02/23 21:26	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L			08/02/23 21:26	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			08/02/23 21:26	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118	mg/L			08/02/23 21:26	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472	mg/L			08/02/23 21:26	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714	mg/L			08/02/23 21:26	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			08/02/23 21:26	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L			08/02/23 21:26	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127	mg/L			08/02/23 21:26	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L			08/02/23 21:26	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L			08/02/23 21:26	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L			08/02/23 21:26	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L			08/02/23 21:26	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919	mg/L			08/02/23 21:26	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			08/02/23 21:26	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L			08/02/23 21:26	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			08/02/23 21:26	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L			08/02/23 21:26	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L			08/02/23 21:26	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780	mg/L			08/02/23 21:26	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160	mg/L			08/02/23 21:26	1
Ethylbenzene	0.0147		0.00100	0.000411	mg/L			08/02/23 21:26	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L			08/02/23 21:26	1
Isopropylbenzene	0.00793		0.00100	0.000613	mg/L			08/02/23 21:26	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			08/02/23 21:26	1
m,p-Xylenes	0.0423		0.0100	0.00124	mg/L			08/02/23 21:26	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Client Sample ID: MW-2

Lab Sample ID: 880-31466-2

Date Collected: 07/31/23 10:40

Matrix: Water

Date Received: 08/01/23 08:15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.00139	U	0.00500	0.00139 mg/L			08/02/23 21:26	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			08/02/23 21:26	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			08/02/23 21:26	1
N-Propylbenzene	0.00214		0.00100	0.000498 mg/L			08/02/23 21:26	1
o-Xylene	0.0115		0.00100	0.000551 mg/L			08/02/23 21:26	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			08/02/23 21:26	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			08/02/23 21:26	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			08/02/23 21:26	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			08/02/23 21:26	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			08/02/23 21:26	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			08/02/23 21:26	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			08/02/23 21:26	1
Toluene	0.00300		0.00100	0.000475 mg/L			08/02/23 21:26	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945 mg/L			08/02/23 21:26	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			08/02/23 21:26	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217 mg/L			08/02/23 21:26	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			08/02/23 21:26	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169 mg/L			08/02/23 21:26	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511 mg/L			08/02/23 21:26	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			08/02/23 21:26	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638 mg/L			08/02/23 21:26	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490 mg/L			08/02/23 21:26	1
1,2,4-Trimethylbenzene	0.0252		0.00100	0.000417 mg/L			08/02/23 21:26	1
1,3,5-Trimethylbenzene	0.00649		0.00100	0.000456 mg/L			08/02/23 21:26	1
Vinyl chloride	<0.000638	U	0.00200	0.000638 mg/L			08/02/23 21:26	1
Xylenes, Total	0.0538		0.0100	0.00124 mg/L			08/02/23 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124		08/02/23 21:26	1
Dibromofluoromethane (Surr)	99		75 - 131		08/02/23 21:26	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		08/02/23 21:26	1
Toluene-d8 (Surr)	97		80 - 120		08/02/23 21:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.37	J	5.82	1.15 mg/L			08/07/23 13:32	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	1.37	J	5.82	1.15 mg/L		08/03/23 11:52	08/03/23 20:32	1
Diesel Range Organics (Over C10-C28)	<1.15	U	5.82	1.15 mg/L		08/03/23 11:52	08/03/23 20:32	1
Oil Range Organics (Over C28-C36)	<1.11	U	5.82	1.11 mg/L		08/03/23 11:52	08/03/23 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 135			08/03/23 11:52	08/03/23 20:32	1
o-Terphenyl	105		70 - 135			08/03/23 11:52	08/03/23 20:32	1

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Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Client Sample ID: MW-2
Date Collected: 07/31/23 10:40
Date Received: 08/01/23 08:15

Lab Sample ID: 880-31466-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.5		0.500	0.250	mg/L			08/07/23 23:21	1
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			08/02/23 10:35	1
Fluoride	<0.100	U	0.500	0.100	mg/L			08/07/23 23:21	1
Nitrite as N	0.450		0.100	0.0293	mg/L			08/02/23 10:35	1
Sulfate	94.9		0.500	0.200	mg/L			08/07/23 23:21	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1330		4.00	4.00	mg/L			08/03/23 14:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1330		4.00	4.00	mg/L			08/03/23 14:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			08/03/23 14:44	1
Carbon dioxide (SM 4500 CO2 D)	1590				mg/L			08/03/23 10:41	1
Carbon Dioxide, Free (SM 4500 CO2 D)	422				mg/L			08/03/23 10:41	1
pH (SM 4500 H+ B)	6.8	HF			SU			08/03/23 13:15	1
Temperature (SM 4500 H+ B)	18.9	HF			Celsius			08/03/23 13:15	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-124)	(75-131)	(63-144)	(80-120)
880-31466-1	MW-1	100	102	103	100
880-31466-2	MW-2	99	99	102	97
LCS 860-115333/1011	Lab Control Sample	100	100	97	99
LCSD 860-115333/12	Lab Control Sample Dup	100	100	97	99
MB 860-115333/17	Method Blank	101	102	103	98
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (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	OTPH1
		(70-135)	(70-135)
880-31466-1	MW-1	88	107
880-31466-1 MS	MW-1	109	111
880-31466-2	MW-2	82	105
LCS 860-115596/2-A	Lab Control Sample	105	110
LCSD 860-115596/3-A	Lab Control Sample Dup	104	105
MB 860-115596/1-A	Method Blank	92	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-31466-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-115333/17

Matrix: Water

Analysis Batch: 115333

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460 mg/L			08/02/23 16:59	1
Bromobenzene	<0.000665	U	0.00100	0.000665 mg/L			08/02/23 16:59	1
Bromochloromethane	<0.000657	U	0.00100	0.000657 mg/L			08/02/23 16:59	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			08/02/23 16:59	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			08/02/23 16:59	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			08/02/23 16:59	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			08/02/23 16:59	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			08/02/23 16:59	1
Chlorobenzene	<0.000530	U	0.00100	0.000530 mg/L			08/02/23 16:59	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			08/02/23 16:59	1
Chloroform	<0.000643	U	0.00100	0.000643 mg/L			08/02/23 16:59	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			08/02/23 16:59	1
2-Chlorotoluene	<0.00118	U	0.00200	0.00118 mg/L			08/02/23 16:59	1
4-Chlorotoluene	<0.000472	U	0.00100	0.000472 mg/L			08/02/23 16:59	1
cis-1,2-Dichloroethene	<0.000714	U	0.00100	0.000714 mg/L			08/02/23 16:59	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			08/02/23 16:59	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			08/02/23 16:59	1
1,2-Dibromo-3-Chloropropane	<0.00127	U	0.00500	0.00127 mg/L			08/02/23 16:59	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			08/02/23 16:59	1
1,2-Dichlorobenzene	<0.000509	U	0.00100	0.000509 mg/L			08/02/23 16:59	1
1,3-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			08/02/23 16:59	1
1,4-Dichlorobenzene	<0.000513	U	0.00100	0.000513 mg/L			08/02/23 16:59	1
Dichlorodifluoromethane	<0.000919	U	0.00100	0.000919 mg/L			08/02/23 16:59	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			08/02/23 16:59	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590 mg/L			08/02/23 16:59	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			08/02/23 16:59	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667 mg/L			08/02/23 16:59	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			08/02/23 16:59	1
2,2-Dichloropropane	<0.000780	U	0.00500	0.000780 mg/L			08/02/23 16:59	1
1,1-Dichloropropene	<0.00160	U	0.00500	0.00160 mg/L			08/02/23 16:59	1
Ethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			08/02/23 16:59	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126 mg/L			08/02/23 16:59	1
Isopropylbenzene	<0.000613	U	0.00100	0.000613 mg/L			08/02/23 16:59	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			08/02/23 16:59	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			08/02/23 16:59	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			08/02/23 16:59	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			08/02/23 16:59	1
n-Butylbenzene	<0.000644	U	0.00100	0.000644 mg/L			08/02/23 16:59	1
N-Propylbenzene	<0.000498	U	0.00100	0.000498 mg/L			08/02/23 16:59	1
o-Xylene	<0.000551	U	0.00100	0.000551 mg/L			08/02/23 16:59	1
p-Cymene (p-Isopropyltoluene)	<0.000919	U	0.00100	0.000919 mg/L			08/02/23 16:59	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			08/02/23 16:59	1
Styrene	<0.000655	U	0.00100	0.000655 mg/L			08/02/23 16:59	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			08/02/23 16:59	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			08/02/23 16:59	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			08/02/23 16:59	1
Tetrachloroethene	<0.000801	U	0.00100	0.000801 mg/L			08/02/23 16:59	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			08/02/23 16:59	1

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QC Sample Results

Client: Ensolum

Job ID: 880-31466-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-115333/17

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115333

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L		08/02/23 16:59	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		08/02/23 16:59	1
1,2,3-Trichlorobenzene	<0.00217	U	0.00500	0.00217	mg/L		08/02/23 16:59	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		08/02/23 16:59	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L		08/02/23 16:59	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L		08/02/23 16:59	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L		08/02/23 16:59	1
Trichlorofluoromethane	<0.000638	U	0.00100	0.000638	mg/L		08/02/23 16:59	1
1,2,3-Trichloropropane	<0.000490	U	0.00100	0.000490	mg/L		08/02/23 16:59	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		08/02/23 16:59	1
1,3,5-Trimethylbenzene	<0.000456	U	0.00100	0.000456	mg/L		08/02/23 16:59	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L		08/02/23 16:59	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		08/02/23 16:59	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	101		74 - 124		08/02/23 16:59	1		
Dibromofluoromethane (Surr)	102		75 - 131		08/02/23 16:59	1		
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		08/02/23 16:59	1		
Toluene-d8 (Surr)	98		80 - 120		08/02/23 16:59	1		

Lab Sample ID: LCS 860-115333/1011

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04943		mg/L		99	75 - 125
Bromobenzene	0.0500	0.04857		mg/L		97	75 - 125
Bromochloromethane	0.0500	0.04868		mg/L		97	60 - 140
Bromodichloromethane	0.0500	0.04879		mg/L		98	75 - 125
Bromoform	0.0500	0.05003		mg/L		100	70 - 130
Bromomethane	0.0500	0.05276		mg/L		106	60 - 140
2-Butanone	0.250	0.2317		mg/L		93	60 - 140
Carbon tetrachloride	0.0500	0.04833		mg/L		97	70 - 130
Chlorobenzene	0.0500	0.04869		mg/L		97	65 - 135
Chloroethane	0.0500	0.04806		mg/L		96	60 - 140
Chloroform	0.0500	0.04914		mg/L		98	70 - 121
Chloromethane	0.0500	0.04871		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.04881		mg/L		98	73 - 125
4-Chlorotoluene	0.0500	0.04868		mg/L		97	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04808		mg/L		96	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04985		mg/L		100	74 - 125
Dibromochloromethane	0.0500	0.04938		mg/L		99	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05211		mg/L		104	59 - 125
1,2-Dibromoethane	0.0500	0.04895		mg/L		98	73 - 125
1,2-Dichlorobenzene	0.0500	0.04834		mg/L		97	75 - 125
1,3-Dichlorobenzene	0.0500	0.04843		mg/L		97	75 - 125
1,4-Dichlorobenzene	0.0500	0.04839		mg/L		97	75 - 125
Dichlorodifluoromethane	0.0500	0.04305		mg/L		86	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-31466-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-115333/1011

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115333

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1,1-Dichloroethane	0.0500	0.04946		mg/L		99	70 - 130
1,2-Dichloroethane	0.0500	0.04890		mg/L		98	72 - 130
1,1-Dichloroethene	0.0500	0.04752		mg/L		95	50 - 150
1,2-Dichloropropane	0.0500	0.04925		mg/L		99	74 - 125
1,3-Dichloropropane	0.0500	0.04869		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.04695		mg/L		94	75 - 125
1,1-Dichloropropene	0.0500	0.04885		mg/L		98	75 - 125
Ethylbenzene	0.0500	0.04965		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.04602		mg/L		92	75 - 125
Isopropylbenzene	0.0500	0.04947		mg/L		99	75 - 125
Methylene Chloride	0.0500	0.04598		mg/L		92	71 - 125
m,p-Xylenes	0.0500	0.04947		mg/L		99	75 - 125
MTBE	0.0500	0.04982		mg/L		100	65 - 135
Naphthalene	0.0500	0.05048		mg/L		101	70 - 130
n-Butylbenzene	0.0500	0.04894		mg/L		98	75 - 125
N-Propylbenzene	0.0500	0.04883		mg/L		98	75 - 125
o-Xylene	0.0500	0.04983		mg/L		100	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04962		mg/L		99	75 - 125
sec-Butylbenzene	0.0500	0.04884		mg/L		98	75 - 125
Styrene	0.0500	0.05047		mg/L		101	75 - 125
tert-Butylbenzene	0.0500	0.04902		mg/L		98	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04942		mg/L		99	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04906		mg/L		98	74 - 125
Tetrachloroethene	0.0500	0.04826		mg/L		97	71 - 125
Toluene	0.0500	0.04916		mg/L		98	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04950		mg/L		99	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05001		mg/L		100	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.04827		mg/L		97	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.04853		mg/L		97	75 - 135
1,1,1-Trichloroethane	0.0500	0.04902		mg/L		98	70 - 130
1,1,2-Trichloroethane	0.0500	0.04951		mg/L		99	70 - 130
Trichloroethene	0.0500	0.04997		mg/L		100	75 - 135
Trichlorofluoromethane	0.0500	0.04592		mg/L		92	60 - 140
1,2,3-Trichloropropane	0.0500	0.04990		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04910		mg/L		98	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04905		mg/L		98	60 - 140
Vinyl chloride	0.0500	0.04822		mg/L		96	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	99		80 - 120

QC Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

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

Lab Sample ID: LCSD 860-115333/12				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 115333											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Benzene	0.0500	0.04918		mg/L		98	75 - 125	0	25		
Bromobenzene	0.0500	0.04888		mg/L		98	75 - 125	1	25		
Bromochloromethane	0.0500	0.04970		mg/L		99	60 - 140	2	25		
Bromodichloromethane	0.0500	0.04912		mg/L		98	75 - 125	1	25		
Bromoform	0.0500	0.05071		mg/L		101	70 - 130	1	25		
Bromomethane	0.0500	0.05487		mg/L		110	60 - 140	4	25		
2-Butanone	0.250	0.2361		mg/L		94	60 - 140	2	25		
Carbon tetrachloride	0.0500	0.04913		mg/L		98	70 - 130	2	25		
Chlorobenzene	0.0500	0.04931		mg/L		99	65 - 135	1	25		
Chloroethane	0.0500	0.04828		mg/L		97	60 - 140	0	25		
Chloroform	0.0500	0.04972		mg/L		99	70 - 121	1	25		
Chloromethane	0.0500	0.05002		mg/L		100	60 - 140	3	25		
2-Chlorotoluene	0.0500	0.04894		mg/L		98	73 - 125	0	25		
4-Chlorotoluene	0.0500	0.04848		mg/L		97	74 - 125	0	25		
cis-1,2-Dichloroethene	0.0500	0.04780		mg/L		96	75 - 125	1	25		
cis-1,3-Dichloropropene	0.0500	0.04983		mg/L		100	74 - 125	0	25		
Dibromochloromethane	0.0500	0.05005		mg/L		100	73 - 125	1	25		
1,2-Dibromo-3-Chloropropane	0.0500	0.05343		mg/L		107	59 - 125	2	25		
1,2-Dibromoethane	0.0500	0.04928		mg/L		99	73 - 125	1	25		
1,2-Dichlorobenzene	0.0500	0.04881		mg/L		98	75 - 125	1	25		
1,3-Dichlorobenzene	0.0500	0.04878		mg/L		98	75 - 125	1	25		
1,4-Dichlorobenzene	0.0500	0.04834		mg/L		97	75 - 125	0	25		
Dichlorodifluoromethane	0.0500	0.04338		mg/L		87	50 - 150	1	25		
1,1-Dichloroethane	0.0500	0.04672		mg/L		93	70 - 130	6	25		
1,2-Dichloroethane	0.0500	0.04895		mg/L		98	72 - 130	0	25		
1,1-Dichloroethene	0.0500	0.04784		mg/L		96	50 - 150	1	25		
1,2-Dichloropropane	0.0500	0.04912		mg/L		98	74 - 125	0	25		
1,3-Dichloropropane	0.0500	0.04901		mg/L		98	75 - 125	1	25		
2,2-Dichloropropane	0.0500	0.04704		mg/L		94	75 - 125	0	25		
1,1-Dichloropropene	0.0500	0.04850		mg/L		97	75 - 125	1	25		
Ethylbenzene	0.0500	0.04963		mg/L		99	75 - 125	0	25		
Hexachlorobutadiene	0.0500	0.04796		mg/L		96	75 - 125	4	25		
Isopropylbenzene	0.0500	0.05023		mg/L		100	75 - 125	2	25		
Methylene Chloride	0.0500	0.04562		mg/L		91	71 - 125	1	25		
m,p-Xylenes	0.0500	0.04934		mg/L		99	75 - 125	0	25		
MTBE	0.0500	0.04968		mg/L		99	65 - 135	0	25		
Naphthalene	0.0500	0.05155		mg/L		103	70 - 130	2	25		
n-Butylbenzene	0.0500	0.04915		mg/L		98	75 - 125	0	25		
N-Propylbenzene	0.0500	0.04922		mg/L		98	75 - 125	1	25		
o-Xylene	0.0500	0.05012		mg/L		100	75 - 125	1	25		
p-Cymene (p-Isopropyltoluene)	0.0500	0.04969		mg/L		99	75 - 125	0	25		
sec-Butylbenzene	0.0500	0.04907		mg/L		98	75 - 125	0	25		
Styrene	0.0500	0.05093		mg/L		102	75 - 125	1	25		
tert-Butylbenzene	0.0500	0.04953		mg/L		99	75 - 125	1	25		
1,1,1,2-Tetrachloroethane	0.0500	0.05033		mg/L		101	72 - 125	2	25		
1,1,1,2,2-Tetrachloroethane	0.0500	0.04871		mg/L		97	74 - 125	1	25		
Tetrachloroethene	0.0500	0.04778		mg/L		96	71 - 125	1	25		
Toluene	0.0500	0.04909		mg/L		98	70 - 130	0	25		

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

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

Lab Sample ID: LCSD 860-115333/12				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 115333											
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limits		
trans-1,2-Dichloroethene			0.0500	0.04859		mg/L		97	75 - 125	2	25
trans-1,3-Dichloropropene			0.0500	0.05000		mg/L		100	66 - 125	0	25
1,2,3-Trichlorobenzene			0.0500	0.04887		mg/L		98	75 - 137	1	25
1,2,4-Trichlorobenzene			0.0500	0.04893		mg/L		98	75 - 135	1	25
1,1,1-Trichloroethane			0.0500	0.04883		mg/L		98	70 - 130	0	25
1,1,2-Trichloroethane			0.0500	0.04984		mg/L		100	70 - 130	1	25
Trichloroethene			0.0500	0.04932		mg/L		99	75 - 135	1	25
Trichlorofluoromethane			0.0500	0.04533		mg/L		91	60 - 140	1	25
1,2,3-Trichloropropane			0.0500	0.05062		mg/L		101	75 - 125	1	25
1,2,4-Trimethylbenzene			0.0500	0.04940		mg/L		99	75 - 125	1	25
1,3,5-Trimethylbenzene			0.0500	0.04931		mg/L		99	60 - 140	1	25
Vinyl chloride			0.0500	0.04904		mg/L		98	60 - 140	2	25
LCSD LCSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		74 - 124								
Dibromofluoromethane (Surr)	100		75 - 131								
1,2-Dichloroethane-d4 (Surr)	97		63 - 144								
Toluene-d8 (Surr)	99		80 - 120								

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

Lab Sample ID: MB 860-115596/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 115511						Prep Batch: 115596			
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		08/03/23 11:52	08/03/23 18:37	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		08/03/23 11:52	08/03/23 18:37	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		08/03/23 11:52	08/03/23 18:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135				08/03/23 11:52	08/03/23 18:37	1
o-Terphenyl	106		70 - 135				08/03/23 11:52	08/03/23 18:37	1

Lab Sample ID: LCS 860-115596/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 115511				Prep Batch: 115596			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.2	110.6		mg/L		112	70 - 135
Diesel Range Organics (Over C10-C28)	99.7	95.58		mg/L		96	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 135				
o-Terphenyl	110		70 - 135				

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QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

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

Lab Sample ID: LCSD 860-115596/3-A
Matrix: Water
Analysis Batch: 115511

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.2	108.1		mg/L		109	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	99.7	90.19		mg/L		90	70 - 135	6	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 135						
o-Terphenyl	105		70 - 135						

Lab Sample ID: 880-31466-1 MS
Matrix: Water
Analysis Batch: 115511

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 115596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<1.17	U	120	135.4		mg/L		113	70 - 135
Diesel Range Organics (Over C10-C28)	<1.17	U	120	112.7		mg/L		94	70 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	109		70 - 135						
o-Terphenyl	111		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-115190/3
Matrix: Water
Analysis Batch: 115190

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			08/01/23 14:34	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			08/01/23 14:34	1

Lab Sample ID: LCS 860-115190/4
Matrix: Water
Analysis Batch: 115190

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.22		mg/L		102	80 - 120
Nitrite as N	10.0	9.902		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-115190/5
Matrix: Water
Analysis Batch: 115190

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
Nitrate as N	10.0	10.16		mg/L		102	80 - 120	1	20
Nitrite as N	10.0	9.853		mg/L		99	80 - 120	1	20

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QC Sample Results

Client: Ensolum

Job ID: 880-31466-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-115190/6

Matrix: Water

Analysis Batch: 115190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LLCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result				Limits	
Nitrate as N	0.100	0.1329			mg/L		133	50 - 150	
Nitrite as N	0.100	0.1038			mg/L		104	50 - 150	

Lab Sample ID: MB 860-115364/3

Matrix: Water

Analysis Batch: 115364

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.250	U	0.500	0.250 mg/L			08/02/23 11:23	1
Fluoride	<0.100	U	0.500	0.100 mg/L			08/02/23 11:23	1
Sulfate	<0.200	U	0.500	0.200 mg/L			08/02/23 11:23	1

Lab Sample ID: LCS 860-115364/4

Matrix: Water

Analysis Batch: 115364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result				Limits	
Chloride	10.0	9.250			mg/L		93	90 - 110	
Fluoride	10.0	9.562			mg/L		96	90 - 110	
Sulfate	10.0	9.868			mg/L		99	90 - 110	

Lab Sample ID: LCSD 860-115364/5

Matrix: Water

Analysis Batch: 115364

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier	Result				Limits		RPD	Limit
Chloride	10.0	9.323			mg/L		93	90 - 110	1	20	
Fluoride	10.0	9.647			mg/L		96	90 - 110	1	20	
Sulfate	10.0	9.908			mg/L		99	90 - 110	0	20	

Lab Sample ID: LLCS 860-115364/7

Matrix: Water

Analysis Batch: 115364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LLCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result				Limits	
Chloride	0.500	0.4470	J		mg/L		89	50 - 150	
Fluoride	0.500	0.2944	J		mg/L		59	50 - 150	
Sulfate	0.500	0.3676	J		mg/L		74	50 - 150	

Lab Sample ID: 880-31466-1 MS

Matrix: Water

Analysis Batch: 115364

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Chloride	108		10.0	118.6	4	mg/L		106	90 - 110	
Fluoride	0.415	J F1	10.0	5.724	F1	mg/L		53	90 - 110	
Sulfate	61.5		10.0	68.63	4	mg/L		72	90 - 110	

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-31466-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-31466-1 MSD

Matrix: Water

Analysis Batch: 115364

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	108		10.0	118.6	4	mg/L		107	90 - 110	0	15
Fluoride	0.415	J F1	10.0	6.156	F1	mg/L		57	90 - 110	7	15
Sulfate	61.5		10.0	69.35	4	mg/L		79	90 - 110	1	15

Lab Sample ID: MB 860-115365/3

Matrix: Water

Analysis Batch: 115365

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			08/02/23 11:23	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			08/02/23 11:23	1

Lab Sample ID: LCS 860-115365/4

Matrix: Water

Analysis Batch: 115365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N			10.0	9.662		mg/L		97	80 - 120
Nitrite as N			10.0	9.445		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-115365/5

Matrix: Water

Analysis Batch: 115365

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
Nitrate as N			10.0	9.745		mg/L		97	80 - 120	1	20
Nitrite as N			10.0	9.567		mg/L		96	80 - 120	1	20

Lab Sample ID: 880-31466-1 MS

Matrix: Water

Analysis Batch: 115365

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.0391	U H	10.0	9.580		mg/L		96	80 - 120
Nitrite as N	<0.0293	U H F1 F2	2.50	0.9579	F1	mg/L		38	80 - 120

Lab Sample ID: 880-31466-1 MSD

Matrix: Water

Analysis Batch: 115365

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.0391	U H	10.0	9.591		mg/L		96	80 - 120	0	15
Nitrite as N	<0.0293	U H F1 F2	2.50	0.7580	F1 F2	mg/L		30	80 - 120	23	15

Lab Sample ID: MB 860-115626/27

Matrix: Water

Analysis Batch: 115626

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			08/03/23 23:54	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-31466-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-115626/27

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115626

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			08/03/23 23:54	1

Lab Sample ID: LCS 860-115626/28

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.260		mg/L		93	80 - 120
Nitrite as N	10.0	9.417		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-115626/29

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115626

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	9.488		mg/L		95	80 - 120	2	20
Nitrite as N	10.0	9.606		mg/L		96	80 - 120	2	20

Lab Sample ID: LLCS 860-115626/6

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 115626

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1505		mg/L		150	50 - 150
Nitrite as N	0.100	0.06596	J	mg/L		66	50 - 150

Lab Sample ID: MB 860-116108/3

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 116108

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<0.250	U	0.500	0.250 mg/L			08/07/23 18:45	1
Fluoride	<0.100	U	0.500	0.100 mg/L			08/07/23 18:45	1
Sulfate	<0.200	U	0.500	0.200 mg/L			08/07/23 18:45	1

Lab Sample ID: LCS 860-116108/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 116108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.858		mg/L		99	90 - 110
Fluoride	10.0	10.38		mg/L		104	90 - 110
Sulfate	10.0	9.165		mg/L		92	90 - 110

Lab Sample ID: LCSD 860-116108/5

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 116108

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.927		mg/L		99	90 - 110	1	20

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-31466-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-116108/5

Matrix: Water

Analysis Batch: 116108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Fluoride			10.0	10.41		mg/L		104	90 - 110	0	20
Sulfate			10.0	9.319		mg/L		93	90 - 110	2	20

Lab Sample ID: LLCS 860-116108/52

Matrix: Water

Analysis Batch: 116108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	0.500	0.4704	J	mg/L		94	50 - 150	
Fluoride	0.500	0.3475	J	mg/L		70	50 - 150	
Sulfate	0.500	0.3933	J	mg/L		79	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-115631/3

Matrix: Water

Analysis Batch: 115631

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Alkalinity	<4.00	U	4.00	mg/L			08/03/23 11:09	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			08/03/23 11:09	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			08/03/23 11:09	1

Lab Sample ID: LCS 860-115631/4

Matrix: Water

Analysis Batch: 115631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Alkalinity	250	243.7		mg/L		97	85 - 115	

Lab Sample ID: LCSD 860-115631/5

Matrix: Water

Analysis Batch: 115631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Alkalinity			250	247.6		mg/L		99	85 - 115	2	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-31466-1 DU

Matrix: Water

Analysis Batch: 115575

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Sample		DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
	Result	Qualifier						
pH	7.3	HF	7.4		SU		0.1	20
Temperature	19.0	HF	19.0		Celsius		0	20

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-115624/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 115624									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Sulfide, Dissolved	<0.0400	U	0.100	0.0400 mg/L			08/03/23 16:30	1	

Lab Sample ID: LCS 860-115624/4						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 115624									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Dissolved	1.00	0.9993		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-115624/5						Client Sample ID: Lab Control Sample Dup			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 115624									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Dissolved	1.00	1.001		mg/L		100	90 - 110	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-31466-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 115333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	8260C	
880-31466-2	MW-2	Total/NA	Water	8260C	
MB 860-115333/17	Method Blank	Total/NA	Water	8260C	
LCS 860-115333/1011	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-115333/12	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	8015 NM	
880-31466-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 115511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	8015B NM	115596
880-31466-2	MW-2	Total/NA	Water	8015B NM	115596
MB 860-115596/1-A	Method Blank	Total/NA	Water	8015B NM	115596
LCS 860-115596/2-A	Lab Control Sample	Total/NA	Water	8015B NM	115596
LCSD 860-115596/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	115596
880-31466-1 MS	MW-1	Total/NA	Water	8015B NM	115596

Prep Batch: 115596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-31466-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-115596/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-115596/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-115596/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-31466-1 MS	MW-1	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 115190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-2	MW-2	Total/NA	Water	300.0	
MB 860-115190/3	Method Blank	Total/NA	Water	300.0	
LCS 860-115190/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-115190/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-115190/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 115364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	300.0	
MB 860-115364/3	Method Blank	Total/NA	Water	300.0	
LCS 860-115364/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-115364/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-115364/7	Lab Control Sample	Total/NA	Water	300.0	
880-31466-1 MS	MW-1	Total/NA	Water	300.0	
880-31466-1 MSD	MW-1	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

HPLC/IC

Analysis Batch: 115365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	300.0	115365
MB 860-115365/3	Method Blank	Total/NA	Water	300.0	
LCS 860-115365/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-115365/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-31466-1 MS	MW-1	Total/NA	Water	300.0	
880-31466-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 115626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-115626/27	Method Blank	Total/NA	Water	300.0	115626
LCS 860-115626/28	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-115626/29	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-115626/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 116108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-2	MW-2	Total/NA	Water	300.0	116108
MB 860-116108/3	Method Blank	Total/NA	Water	300.0	
LCS 860-116108/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-116108/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-116108/52	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 115550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	SM 4500 CO2 D	115550
880-31466-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 115575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	SM 4500 H+ B	115575
880-31466-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-31466-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 115624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Dissolved	Water	SM 4500 S2 D	115624
MB 860-115624/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-115624/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-115624/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Filtration Batch: 115628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Dissolved	Water	Filtration	115628

Analysis Batch: 115631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31466-1	MW-1	Total/NA	Water	SM 2320B	115631
880-31466-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-115631/3	Method Blank	Total/NA	Water	SM 2320B	

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QC Association Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

General Chemistry (Continued)

Analysis Batch: 115631 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-115631/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-115631/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Client Sample ID: MW-1

Date Collected: 07/31/23 09:50

Date Received: 08/01/23 08:15

Lab Sample ID: 880-31466-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	115333	A1S	EET HOU	08/02/23 21:05
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/07/23 13:32
Total/NA	Prep	8015NM Aq Prep			115596	BNW	EET HOU	08/03/23 11:52
Total/NA	Analysis	8015B NM		1	115511	T1S	EET HOU	08/03/23 19:46
Total/NA	Analysis	300.0		1	115364	WP	EET HOU	08/02/23 11:57
Total/NA	Analysis	300.0		1	115365	WP	EET HOU	08/02/23 11:57
Total/NA	Analysis	SM 2320B		1	115631	TL	EET HOU	08/03/23 14:28
Total/NA	Analysis	SM 4500 CO2 D		1	115550	MC	EET HOU	08/03/23 10:41
Total/NA	Analysis	SM 4500 H+ B		1	115575	TL	EET HOU	08/03/23 13:15
Dissolved	Filtration	Filtration			115628	SCI	EET HOU	08/03/23 14:06
Dissolved	Analysis	SM 4500 S2 D		1	115624	SCI	EET HOU	08/03/23 16:30

Client Sample ID: MW-2

Date Collected: 07/31/23 10:40

Date Received: 08/01/23 08:15

Lab Sample ID: 880-31466-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	115333	A1S	EET HOU	08/02/23 21:26
Total/NA	Analysis	8015 NM		1	101425	CZT	EET HOU	08/07/23 13:32
Total/NA	Prep	8015NM Aq Prep			115596	BNW	EET HOU	08/03/23 11:52
Total/NA	Analysis	8015B NM		1	115511	T1S	EET HOU	08/03/23 20:32
Total/NA	Analysis	300.0		1	115190	RBNS	EET HOU	08/02/23 10:35
Total/NA	Analysis	300.0		1	116108	AK1	EET HOU	08/07/23 23:21
Total/NA	Analysis	SM 2320B		1	115631	TL	EET HOU	08/03/23 14:44
Total/NA	Analysis	SM 4500 CO2 D		1	115550	MC	EET HOU	08/03/23 10:41
Total/NA	Analysis	SM 4500 H+ B		1	115575	TL	EET HOU	08/03/23 13:15

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	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
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 CO2 D		Water	Carbon dioxide
SM 4500 CO2 D		Water	Carbon Dioxide, Free
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 D	Sulfide, Total	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU
Filtration	Sample Filtration	None	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-31466-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31466-1	MW-1	Water	07/31/23 09:50	08/01/23 08:15
880-31466-2	MW-2	Water	07/31/23 10:40	08/01/23 08:15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

W/C



880-31466 Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock, TX (806)794-1296
(575-392-7550) Phoenix,AZ (480-355-0800) Atlanta GA (770-449-8800) Tampa FL (813-222-2222)

Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

www.elsevier.com/locate/jmb

Project Manager	Beaux Jennings	Bill to (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address	601 Mainenfeld #400	Address	
City, State ZIP	Midland TX 79701	City, State ZIP	
Phone	432-230-3344	Email	bjennings@ensolum.com

6-20-2000) WINTER ADVICE VOL. 1 7-1

Work Order Comments

Program: UST/ST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other ☐

Project Name.	South Hobbs	Turn Around
Project Number:	03B1417002	Routine ☐
P O Number	03B1417002	Rush 24 Hr
Sampler's Name	Shane Diller	Due Date

ANALYSIS REQUEST										Work Order Notes
500 CO2 c	6.2			00						

SAMPLE RECEIPT	Temp Blank	Yes	No		Wet Ice:	Yes	No
Temperature ($^{\circ}\text{C}$)	-65/-60			Thermometer ID	MED		
Received Intact:	Yes No						
Cooler Custody Seals*	Yes No N/A			Correction Factor	+0.3		
Sample Custody Seals:	Yes No N/A			Total Containers:			

[illegible][illegible]

Total 200.7 / 6010 200.8 / 6020:

8RCRA '13PPM Texas '11 Al Sb As Ba Be B Cd Ca Cr Co Cu Ee Pb Mn Mo Ni K Sg Ag SiO₂ Na Sr Ti Sn V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu I Pb Mn Mo Ni Se Ag Ti V

1631 / 245.1 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless circumstances previously mentioned.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		8/11/23			
		08/11/23			

Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-31466-1

Login Number: 31466

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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: 880-31466-1

Login Number: 31466

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 08/02/23 10:22 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	



ANALYTICAL REPORT

July 12, 2023

Ensolum, LLC

Sample Delivery Group: L1633476
Samples Received: 07/08/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

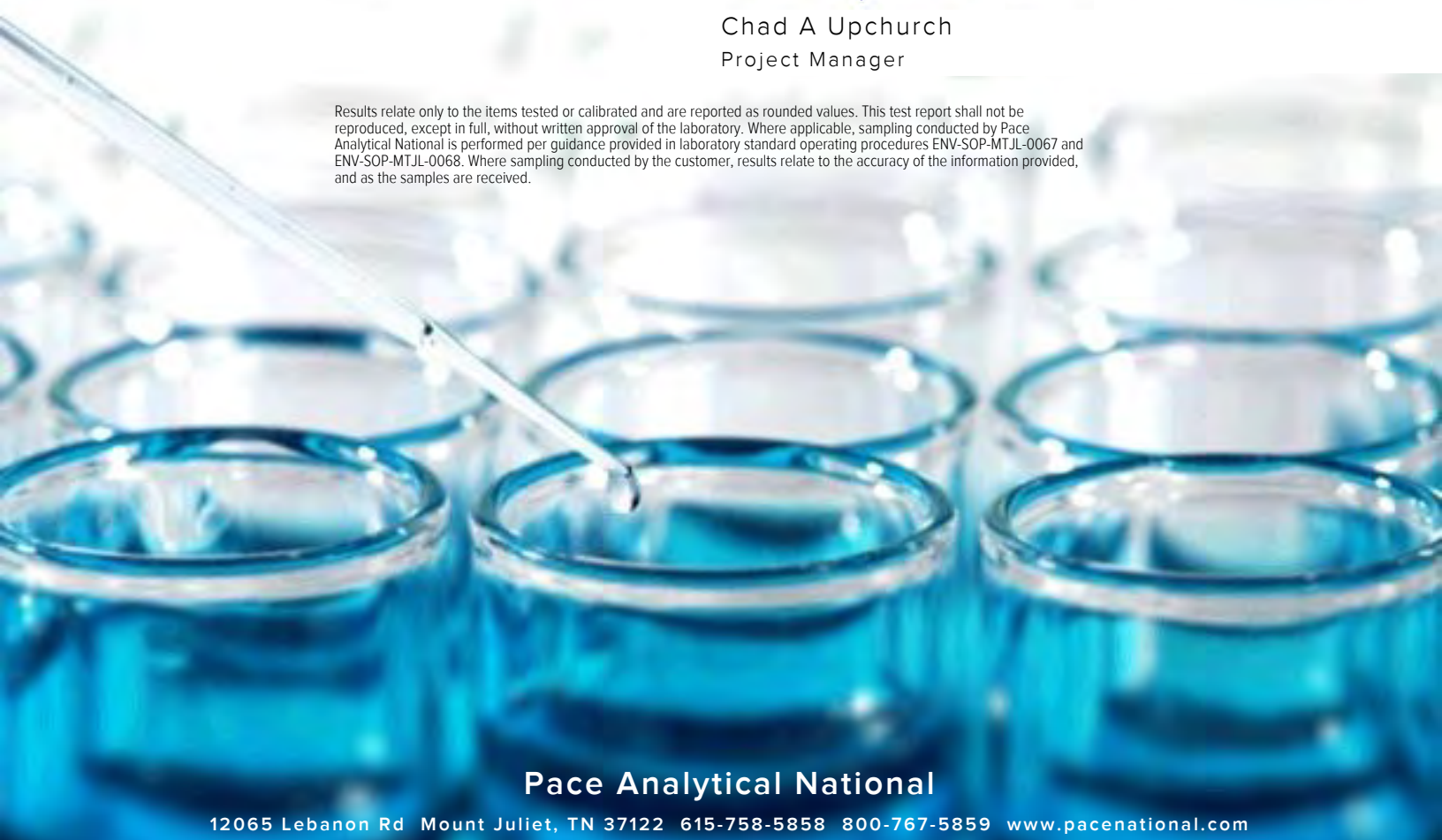


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1633476-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	16	⁸ Gl
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	⁹ Al
		¹⁰ Sc

LEVEY WELL L1633476-01 Air

Collected by
Shane Diller

Collected date/time
07/07/23 13:05

Received date/time
07/08/23 09:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2092608	100	07/11/23 22:56	07/11/23 22:56	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2093361	2000	07/12/23 14:24	07/12/23 14:24	SDS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

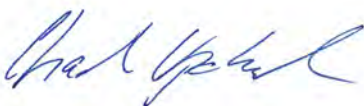
⁹ Al

¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 07/12/2023 19:30				
Project Name: Levey Well			Laboratory Job Number: L1633476-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2092608 and WG2093361				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 07/12/2023 19:30				
Project Name: Levey Well			Laboratory Job Number: L1633476-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2092608 and WG2093361				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 07/12/2023 19:30	
Project Name: Levey Well		Laboratory Job Number: L1633476-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2092608 and WG2093361	
ER # ¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 07/07/23 13:05

L1633476

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG2092608
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2092608
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2092608
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2092608
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2092608
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2092608
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2092608
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2092608
Carbon disulfide	75-15-0	76.10	20.0	62.2	68.1	212		100	WG2092608
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2092608
Chlorobenzene	108-90-7	113	20.0	92.4	27.6	128		100	WG2092608
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2092608
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2092608
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2092608
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2092608
Cyclohexane	110-82-7	84.20	400	1380	17200	59200		2000	WG2093361
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2092608
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2092608
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2092608
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2092608
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2092608
1,2-Dichloroethane	107-06-2	99	20.0	81.0	22.4	90.7		100	WG2092608
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2092608
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2092608
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2092608
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2092608
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2092608
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2092608
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2092608
1,4-Dioxane	123-91-1	88.10	20.0	72.1	ND	ND		100	WG2092608
Ethanol	64-17-5	46.10	250	471	ND	ND		100	WG2092608
Ethylbenzene	100-41-4	106	20.0	86.7	55.0	238		100	WG2092608
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2092608
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2092608
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2092608
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2092608
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2092608
Heptane	142-82-5	100	400	1640	12400	50700		2000	WG2093361
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2092608
n-Hexane	110-54-3	86.20	1260	4440	159000	561000		2000	WG2093361
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2092608
Methylene Chloride	75-09-2	84.90	20.0	69.4	25.6	88.9		100	WG2092608
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2092608
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2092608
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2092608
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2092608
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2092608
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2092608
2-Propanol	67-63-0	60.10	125	307	4290	10500		100	WG2092608
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2092608
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2092608
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2092608
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2092608
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2092608
Toluene	108-88-3	92.10	50.0	188	64.3	242		100	WG2092608
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2092608

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 07/07/23 13:05

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	20.0	109	ND	ND		100	WG2092608
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2092608
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2092608
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	30.4	149		100	WG2092608
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	22.0	108		100	WG2092608
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2092608
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2092608
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2092608
Vinyl acetate	108-05-4	86.10	20.0	70.4	ND	ND		100	WG2092608
m&p-Xylene	1330-20-7	106	40.0	173	117	507		100	WG2092608
o-Xylene	95-47-6	106	20.0	86.7	70.2	304		100	WG2092608
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	259000	1070000		100	WG2092608
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2092608
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.3				WG2093361

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1633476-01

Method Blank (MB)

(MB) R3947256-1 07/11/23 09:38

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.307	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1633476-01

Method Blank (MB)

(MB) R3947256-1 07/11/23 09:38

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	99.0			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3947256-2 07/11/23 10:29 • (LCSD) R3947256-3 07/11/23 10:59

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.36	3.38	89.6	90.1	70.0-130			0.593	25
Allyl chloride	3.75	3.04	2.96	81.1	78.9	70.0-130			2.67	25
Benzene	3.75	3.66	3.76	97.6	100	70.0-130			2.70	25
Benzyl Chloride	3.75	3.29	3.43	87.7	91.5	70.0-152			4.17	25
Bromodichloromethane	3.75	3.79	3.84	101	102	70.0-130			1.31	25
Bromoform	3.75	3.55	3.68	94.7	98.1	70.0-130			3.60	25
Bromomethane	3.75	3.56	3.59	94.9	95.7	70.0-130			0.839	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3947256-2 07/11/23 10:29 • (LCSD) R3947256-3 07/11/23 10:59

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	3.75	3.19	3.26	85.1	86.9	70.0-130			2.17	25
Carbon disulfide	3.75	3.33	3.33	88.8	88.8	70.0-130			0.000	25
Carbon tetrachloride	3.75	3.70	3.73	98.7	99.5	70.0-130			0.808	25
Chlorobenzene	3.75	3.92	3.92	105	105	70.0-130			0.000	25
Chloroethane	3.75	3.35	3.32	89.3	88.5	70.0-130			0.900	25
Chloroform	3.75	3.70	3.72	98.7	99.2	70.0-130			0.539	25
Chloromethane	3.75	3.01	3.07	80.3	81.9	70.0-130			1.97	25
2-Chlorotoluene	3.75	3.73	3.91	99.5	104	70.0-130			4.71	25
Dibromochloromethane	3.75	3.73	3.82	99.5	102	70.0-130			2.38	25
1,2-Dibromoethane	3.75	3.76	3.83	100	102	70.0-130			1.84	25
1,2-Dichlorobenzene	3.75	3.95	3.99	105	106	70.0-130			1.01	25
1,3-Dichlorobenzene	3.75	4.05	4.13	108	110	70.0-130			1.96	25
1,4-Dichlorobenzene	3.75	3.96	3.96	106	106	70.0-130			0.000	25
1,2-Dichloroethane	3.75	3.74	3.86	99.7	103	70.0-130			3.16	25
1,1-Dichloroethane	3.75	3.64	3.67	97.1	97.9	70.0-130			0.821	25
1,1-Dichloroethene	3.75	3.42	3.45	91.2	92.0	70.0-130			0.873	25
cis-1,2-Dichloroethene	3.75	3.56	3.57	94.9	95.2	70.0-130			0.281	25
trans-1,2-Dichloroethene	3.75	3.50	3.44	93.3	91.7	70.0-130			1.73	25
1,2-Dichloropropane	3.75	3.59	3.70	95.7	98.7	70.0-130			3.02	25
cis-1,3-Dichloropropene	3.75	3.71	3.71	98.9	98.9	70.0-130			0.000	25
trans-1,3-Dichloropropene	3.75	3.44	3.50	91.7	93.3	70.0-130			1.73	25
1,4-Dioxane	3.75	3.75	3.67	100	97.9	70.0-140			2.16	25
Ethanol	3.75	3.15	3.44	84.0	91.7	55.0-148			8.80	25
Ethylbenzene	3.75	3.70	3.77	98.7	101	70.0-130			1.87	25
4-Ethyltoluene	3.75	3.89	3.97	104	106	70.0-130			2.04	25
Trichlorofluoromethane	3.75	3.84	3.82	102	102	70.0-130			0.522	25
Dichlorodifluoromethane	3.75	3.63	3.74	96.8	99.7	64.0-139			2.99	25
1,1,2-Trichlorotrifluoroethane	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
1,2-Dichlorotetrafluoroethane	3.75	3.59	3.65	95.7	97.3	70.0-130			1.66	25
Hexachloro-1,3-butadiene	3.75	3.99	3.99	106	106	70.0-151			0.000	25
Isopropylbenzene	3.75	3.74	3.88	99.7	103	70.0-130			3.67	25
Methylene Chloride	3.75	3.12	3.27	83.2	87.2	70.0-130			4.69	25
Methyl Butyl Ketone	3.75	3.50	3.59	93.3	95.7	70.0-149			2.54	25
2-Butanone (MEK)	3.75	3.59	3.58	95.7	95.5	70.0-130			0.279	25
4-Methyl-2-pentanone (MIBK)	3.75	3.30	3.74	88.0	99.7	70.0-139			12.5	25
Methyl methacrylate	3.75	3.53	3.65	94.1	97.3	70.0-130			3.34	25
MTBE	3.75	3.50	3.54	93.3	94.4	70.0-130			1.14	25
Naphthalene	3.75	4.03	4.14	107	110	70.0-159			2.69	25
2-Propanol	3.75	3.08	3.20	82.1	85.3	70.0-139			3.82	25
Propene	3.75	3.31	3.39	88.3	90.4	64.0-144			2.39	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3947256-2 07/11/23 10:29 • (LCSD) R3947256-3 07/11/23 10:59

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	3.75	3.71	3.85	98.9	103	70.0-130			3.70	25
1,1,2,2-Tetrachloroethane	3.75	3.83	3.84	102	102	70.0-130			0.261	25
Tetrachloroethylene	3.75	3.96	3.92	106	105	70.0-130			1.02	25
Tetrahydrofuran	3.75	3.39	3.46	90.4	92.3	70.0-137			2.04	25
Toluene	3.75	3.76	3.78	100	101	70.0-130			0.531	25
1,2,4-Trichlorobenzene	3.75	4.59	4.79	122	128	70.0-160			4.26	25
1,1,1-Trichloroethane	3.75	3.75	3.78	100	101	70.0-130			0.797	25
1,1,2-Trichloroethane	3.75	3.86	3.88	103	103	70.0-130			0.517	25
Trichloroethylene	3.75	3.81	3.87	102	103	70.0-130			1.56	25
1,2,4-Trimethylbenzene	3.75	3.87	4.02	103	107	70.0-130			3.80	25
1,3,5-Trimethylbenzene	3.75	3.87	3.91	103	104	70.0-130			1.03	25
2,2,4-Trimethylpentane	3.75	3.51	3.61	93.6	96.3	70.0-130			2.81	25
Vinyl chloride	3.75	3.20	3.24	85.3	86.4	70.0-130			1.24	25
Vinyl Bromide	3.75	3.73	3.78	99.5	101	70.0-130			1.33	25
Vinyl acetate	3.75	2.80	2.90	74.7	77.3	70.0-130			3.51	25
m&p-Xylene	7.50	7.60	7.79	101	104	70.0-130			2.47	25
o-Xylene	3.75	3.78	3.89	101	104	70.0-130			2.87	25
TPH (GC/MS) Low Fraction	188	181	183	96.3	97.3	70.0-130			1.10	25
(S) 1,4-Bromofluorobenzene				99.6	100	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1633476-01

Method Blank (MB)

(MB) R3947758-3 07/12/23 09:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	95.5			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3947758-1 07/12/23 08:32 • (LCSD) R3947758-2 07/12/23 09:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Cyclohexane	3.75	3.49	3.41	93.1	90.9	70.0-130			2.32	25
Heptane	3.75	3.40	3.30	90.7	88.0	70.0-130			2.99	25
n-Hexane	3.75	3.33	3.26	88.8	86.9	70.0-130			2.12	25
(S) 1,4-Bromofluorobenzene				97.1	99.3	60.0-140				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

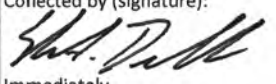
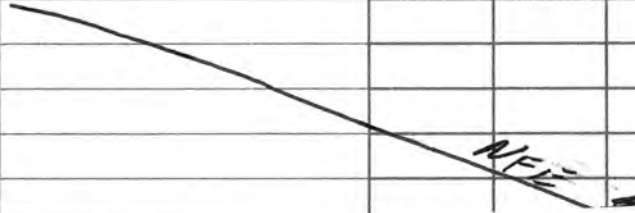
⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701				Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220				Pres Chk		Analysis / Container / Preservative										Chain of Custody					
																				 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf					
Report to: Beaux Jennings				Email To: bjennings@ensolum.com																					
Project Description: Levey Well				City/State Collected: Hobbs NM				Please Circle: PT MT CT ET																	
Phone: 210-219-8858				Client Project # 03B1417001				Lab Project # ENSOLUMTX-SUMMA												SDG # L1633476					
Collected by (print): Shane Diller				Site/Facility ID # 03B1417001				P.O. # 03B1417001												Table # J209					
Collected by (signature): 				Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day				Quote # Date Results Needed												Acctnum: ENSOLUMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB:					
Immediately Packed on Ice N ☒ Y ☐								No. of Cntrs												Shipped Via:					
Sample ID				Comp/Grab		Matrix *		Depth		Date		Time												Remarks	
Levey Well				G		Air		01105 1305		1		X												-01	
																									

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable

COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☐ Y ☒ N

Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☐ Y ☒ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

amb

*** Matrix:**

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

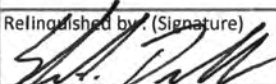
DW - Drinking Water

OT - Other _____

Remarks:

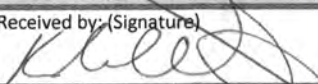
Samples returned via: _____ Tracking # _____

_____ UPS _____ FedEx _____ Courier _____

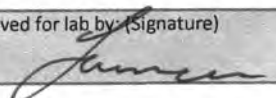
Relinquished by: (Signature)  **Date:** 6/7/23 **Time:** 4:00pm

Relinquished by: (Signature) _____ **Date:** _____ **Time:** _____

Relinquished by: (Signature) _____ **Date:** _____ **Time:** _____

Received by: (Signature)  **Trip Blank Received:** Yes / No

Received by: (Signature) _____ **Temp:** _____ °C **Bottles Received:** _____

Received for lab by: (Signature)  **Date:** 7/8/23 **Time:** 0905

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☒ N

Preservation Correct/Checked: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

If preservation required by Login: Date/Time

Hold: _____ Condition: NCF / OK

07/08/23 - NCF ENSOLUMTX L1633476

R2/R3/R4/RX/EX

Time estimate: 0h

Time spent: 0h

Grouping date: 8 July 2023

Members



Deanna Ramsey (responsible)



Mark Beasley

- ☒ Login Clarification needed
- ☐ Chain of custody is incomplete
- ☐ Please specify Metals requested
- ☐ Please specify TCLP requested
- ☐ Received additional samples not listed on COC
- ☐ Sample IDs on containers do not match IDs on COC
- ☐ Client did not "X" analysis
- ☐ Chain of Custody is missing
- ☐ If no COC: Received by: _____
- ☐ If no COC: Date/Time: _____
- ☐ If no COC: Temp./Cont.Rec./pH: _____
- ☐ If no COC: Carrier: _____
- ☐ If no COC: Tracking #: _____
- ☐ Client informed by call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: _____
- ☐ PM initials: _____
- ☐ Client Contact: _____

Comments

Deanna Ramsey

8 July 2023 9:14 AM

this COC was received in a cooler 07/07 and was held for unpacking airs but no samples were found for this COC

Deanna Ramsey

8 July 2023 1:56 PM

summa received today Added to L1633476



ANALYTICAL REPORT

July 20, 2023

Ensolum, LLC

Sample Delivery Group: L1635833
Samples Received: 07/15/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

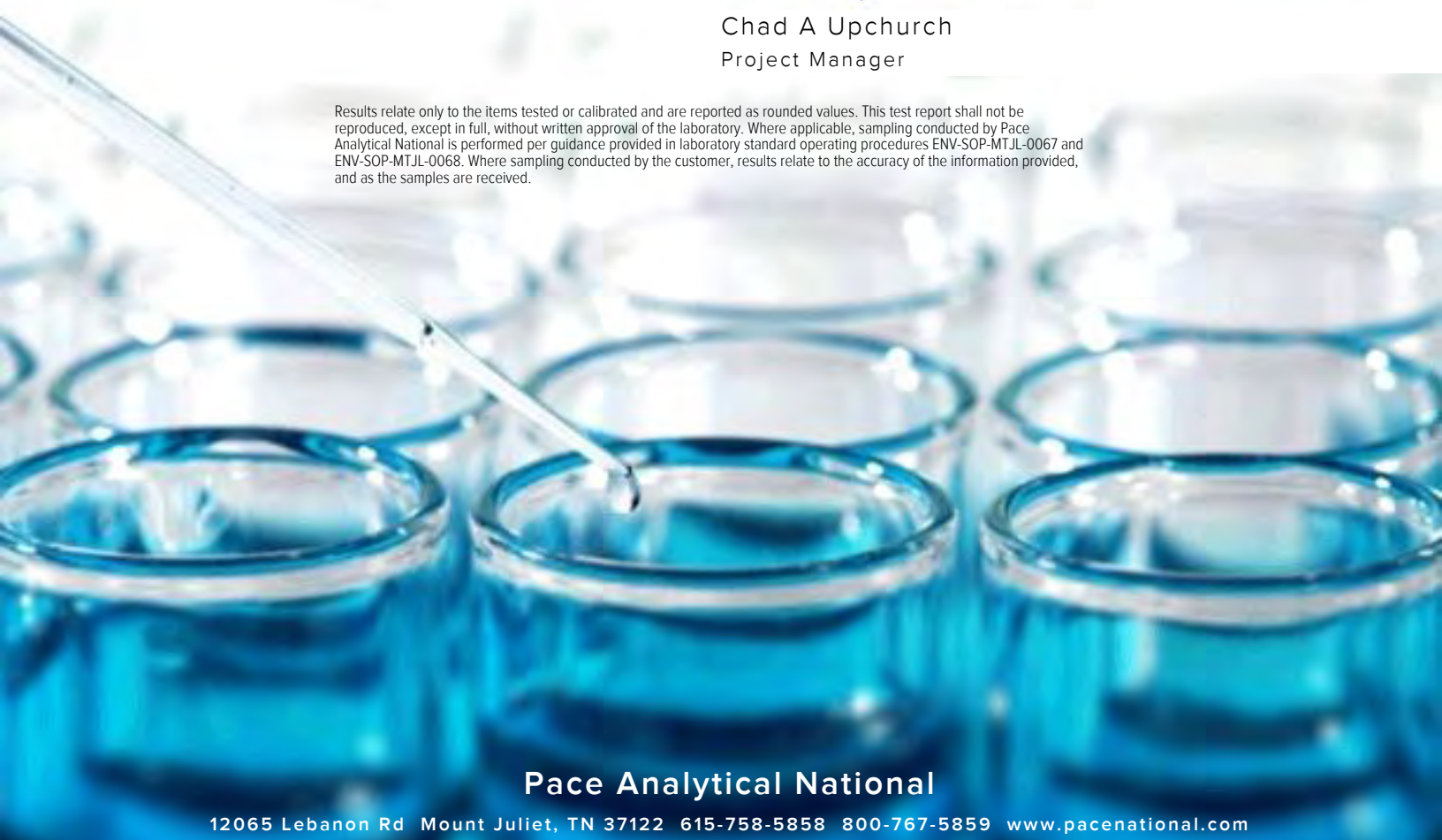


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1635833-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	15	⁸ Gl
Al: Accreditations & Locations	16	
Sc: Sample Chain of Custody	17	⁹ Al
		¹⁰ Sc

LEVEY WELL L1635833-01 Air

Collected by
Shane Diller

Collected date/time
07/13/23 14:38

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2097729	400	07/19/23 23:45	07/19/23 23:45	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2098688	1000	07/20/23 15:42	07/20/23 15:42	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

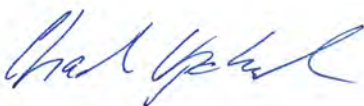
¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 07/20/2023 19:40				
Project Name: Levey Well			Laboratory Job Number: L1635833-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2097729 and WG2098688				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			1
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 07/20/2023 19:40					
Project Name: Levey Well		Laboratory Job Number: L1635833-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2097729 and WG2098688					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 07/20/2023 19:40	
Project Name: Levey Well		Laboratory Job Number: L1635833-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2097729 and WG2098688	
ER #¹	Description		
1	TO-15 WG2097729 Propene: Relative Percent Difference is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 07/13/23 14:38

L1635833

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	500	1190	ND	ND		400	WG2097729
Allyl chloride	107-05-1	76.53	80.0	250	ND	ND		400	WG2097729
Benzene	71-43-2	78.10	200	639	ND	ND		1000	WG2098688
Benzyl Chloride	100-44-7	127	200	1040	ND	ND		1000	WG2098688
Bromodichloromethane	75-27-4	164	200	1340	ND	ND		1000	WG2098688
Bromoform	75-25-2	253	600	6210	ND	ND		1000	WG2098688
Bromomethane	74-83-9	94.90	80.0	311	ND	ND		400	WG2097729
1,3-Butadiene	106-99-0	54.10	800	1770	ND	ND		400	WG2097729
Carbon disulfide	75-15-0	76.10	80.0	249	ND	ND		400	WG2097729
Carbon tetrachloride	56-23-5	154	80.0	504	ND	ND		400	WG2097729
Chlorobenzene	108-90-7	113	200	924	ND	ND		1000	WG2098688
Chloroethane	75-00-3	64.50	80.0	211	ND	ND		400	WG2097729
Chloroform	67-66-3	119	80.0	389	ND	ND		400	WG2097729
Chloromethane	74-87-3	50.50	80.0	165	ND	ND		400	WG2097729
2-Chlorotoluene	95-49-8	126	200	1030	ND	ND		1000	WG2098688
Cyclohexane	110-82-7	84.20	80.0	276	1380	4750		400	WG2097729
Dibromochloromethane	124-48-1	208	200	1700	ND	ND		1000	WG2098688
1,2-Dibromoethane	106-93-4	188	200	1540	ND	ND		1000	WG2098688
1,2-Dichlorobenzene	95-50-1	147	200	1200	ND	ND		1000	WG2098688
1,3-Dichlorobenzene	541-73-1	147	200	1200	ND	ND		1000	WG2098688
1,4-Dichlorobenzene	106-46-7	147	200	1200	ND	ND		1000	WG2098688
1,2-Dichloroethane	107-06-2	99	200	810	ND	ND		1000	WG2098688
1,1-Dichloroethane	75-34-3	98	80.0	321	ND	ND		400	WG2097729
1,1-Dichloroethene	75-35-4	96.90	80.0	317	ND	ND		400	WG2097729
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	ND	ND		400	WG2097729
trans-1,2-Dichloroethene	156-60-5	96.90	80.0	317	ND	ND		400	WG2097729
1,2-Dichloropropane	78-87-5	113	200	924	ND	ND		1000	WG2098688
cis-1,3-Dichloropropene	10061-01-5	111	200	908	ND	ND		1000	WG2098688
trans-1,3-Dichloropropene	10061-02-6	111	200	908	ND	ND		1000	WG2098688
1,4-Dioxane	123-91-1	88.10	200	721	ND	ND		1000	WG2098688
Ethanol	64-17-5	46.10	1000	1890	2890	5450	B	400	WG2097729
Ethylbenzene	100-41-4	106	200	867	ND	ND		1000	WG2098688
4-Ethyltoluene	622-96-8	120	200	982	ND	ND		1000	WG2098688
Trichlorofluoromethane	75-69-4	137.40	80.0	450	ND	ND		400	WG2097729
Dichlorodifluoromethane	75-71-8	120.92	80.0	396	ND	ND		400	WG2097729
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	80.0	613	ND	ND		400	WG2097729
1,2-Dichlorotetrafluoroethane	76-14-2	171	80.0	560	ND	ND		400	WG2097729
Heptane	142-82-5	100	200	818	760	3110		1000	WG2098688
Hexachloro-1,3-butadiene	87-68-3	261	630	6730	ND	ND		1000	WG2098688
n-Hexane	110-54-3	86.20	252	888	20500	72300		400	WG2097729
Isopropylbenzene	98-82-8	120.20	200	983	ND	ND		1000	WG2098688
Methylene Chloride	75-09-2	84.90	80.0	278	ND	ND		400	WG2097729
Methyl Butyl Ketone	591-78-6	100	1250	5110	ND	ND		1000	WG2098688
2-Butanone (MEK)	78-93-3	72.10	500	1470	ND	ND		400	WG2097729
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1250	5120	ND	ND		1000	WG2098688
Methyl methacrylate	80-62-6	100.12	200	819	ND	ND		1000	WG2098688
MTBE	1634-04-4	88.10	80.0	288	ND	ND		400	WG2097729
Naphthalene	91-20-3	128	630	3300	ND	ND		1000	WG2098688
2-Propanol	67-63-0	60.10	500	1230	8370	20600		400	WG2097729
Propene	115-07-1	42.10	500	861	ND	ND	J3	400	WG2097729
Styrene	100-42-5	104	200	851	ND	ND		1000	WG2098688
1,1,2,2-Tetrachloroethane	79-34-5	168	200	1370	ND	ND		1000	WG2098688
Tetrachloroethylene	127-18-4	166	200	1360	ND	ND		1000	WG2098688
Tetrahydrofuran	109-99-9	72.10	80.0	236	ND	ND		400	WG2097729
Toluene	108-88-3	92.10	500	1880	ND	ND		1000	WG2098688
1,2,4-Trichlorobenzene	120-82-1	181	630	4660	ND	ND		1000	WG2098688

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Collected date/time: 07/13/23 14:38

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	80.0	435	ND	ND		400	WG2097729
1,1,2-Trichloroethane	79-00-5	133	200	1090	ND	ND		1000	WG2098688
Trichloroethylene	79-01-6	131	200	1070	ND	ND		1000	WG2098688
1,2,4-Trimethylbenzene	95-63-6	120	200	982	ND	ND		1000	WG2098688
1,3,5-Trimethylbenzene	108-67-8	120	200	982	ND	ND		1000	WG2098688
2,2,4-Trimethylpentane	540-84-1	114.22	80.0	374	ND	ND		400	WG2097729
Vinyl chloride	75-01-4	62.50	80.0	204	ND	ND		400	WG2097729
Vinyl Bromide	593-60-2	106.95	80.0	350	ND	ND		400	WG2097729
Vinyl acetate	108-05-4	86.10	80.0	282	ND	ND		400	WG2097729
m&p-Xylene	1330-20-7	106	400	1730	ND	ND		1000	WG2098688
o-Xylene	95-47-6	106	200	867	ND	ND		1000	WG2098688
TPH (GC/MS) Low Fraction	8006-61-9	101	80000	330000	ND	ND		400	WG2097729
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG2097729
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.7				WG2098688

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3950760-3 07/19/23 13:14

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
Cyclohexane	U		0.0753	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
Ethanol	2.37	U	0.265	2.50
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
n-Hexane	U		0.206	0.630
Methylene Chloride	U		0.0979	0.200
2-Butanone (MEK)	U		0.0814	1.25
MTBE	U		0.0647	0.200
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Tetrahydrofuran	U		0.0734	0.200
1,1,1-Trichloroethane	U		0.0736	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
TPH (GC/MS) Low Fraction	41.1	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.8			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3950760-1 07/19/23 09:49 • (LCSD) R3950760-2 07/19/23 10:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.60	3.59	96.0	95.7	70.0-130			0.278	25
Allyl chloride	3.75	3.68	3.70	98.1	98.7	70.0-130			0.542	25
Bromomethane	3.75	3.88	3.79	103	101	70.0-130			2.35	25
1,3-Butadiene	3.75	3.72	3.74	99.2	99.7	70.0-130			0.536	25
Carbon disulfide	3.75	3.85	3.84	103	102	70.0-130			0.260	25
Carbon tetrachloride	3.75	3.96	3.96	106	106	70.0-130			0.000	25
Chloroethane	3.75	3.79	3.85	101	103	70.0-130			1.57	25
Chloroform	3.75	3.97	3.95	106	105	70.0-130			0.505	25
Chloromethane	3.75	3.73	4.50	99.5	120	70.0-130			18.7	25
Cyclohexane	3.75	4.11	4.15	110	111	70.0-130			0.969	25
1,1-Dichloroethane	3.75	3.94	3.96	105	106	70.0-130			0.506	25
1,1-Dichloroethene	3.75	3.86	3.85	103	103	70.0-130			0.259	25
cis-1,2-Dichloroethene	3.75	3.96	4.01	106	107	70.0-130			1.25	25
trans-1,2-Dichloroethene	3.75	3.96	3.97	106	106	70.0-130			0.252	25
Ethanol	3.75	4.18	4.21	111	112	55.0-148			0.715	25
Trichlorofluoromethane	3.75	3.85	3.87	103	103	70.0-130			0.518	25
Dichlorodifluoromethane	3.75	3.61	4.10	96.3	109	64.0-139			12.7	25
1,1,2-Trichlorotrifluoroethane	3.75	3.83	3.82	102	102	70.0-130			0.261	25
1,2-Dichlorotetrafluoroethane	3.75	3.78	4.27	101	114	70.0-130			12.2	25
n-Hexane	3.75	4.03	4.14	107	110	70.0-130			2.69	25
Methylene Chloride	3.75	3.72	3.70	99.2	98.7	70.0-130			0.539	25
2-Butanone (MEK)	3.75	4.13	4.12	110	110	70.0-130			0.242	25
MTBE	3.75	3.98	3.92	106	105	70.0-130			1.52	25
2-Propanol	3.75	3.89	3.89	104	104	70.0-139			0.000	25
Propene	3.75	3.79	4.99	101	133	64.0-144		J3	27.3	25
Tetrahydrofuran	3.75	4.00	3.98	107	106	70.0-137			0.501	25
1,1,1-Trichloroethane	3.75	3.99	3.96	106	106	70.0-130			0.755	25
2,2,4-Trimethylpentane	3.75	4.05	4.12	108	110	70.0-130			1.71	25
Vinyl chloride	3.75	3.75	3.90	100	104	70.0-130			3.92	25
Vinyl Bromide	3.75	3.81	3.83	102	102	70.0-130			0.524	25
Vinyl acetate	3.75	3.95	3.95	105	105	70.0-130			0.000	25
TPH (GC/MS) Low Fraction	188	192	216	102	115	70.0-130			11.8	25
(S) 1,4-Bromofluorobenzene				99.3	99.5	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1635833-01

Method Blank (MB)

(MB) R3950884-3 07/20/23 11:34

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Chlorobenzene	U		0.0832	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methyl Butyl Ketone	U		0.133	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
Naphthalene	U		0.350	0.630
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	96.1			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1635833-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3950884-1 07/20/23 09:17 • (LCSD) R3950884-2 07/20/23 11:08

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	3.57	3.66	95.2	97.6	70.0-130			2.49	25
Benzyl Chloride	3.75	3.59	3.51	95.7	93.6	70.0-152			2.25	25
Bromodichloromethane	3.75	3.58	3.60	95.5	96.0	70.0-130			0.557	25
Bromoform	3.75	3.50	3.41	93.3	90.9	70.0-130			2.60	25
Chlorobenzene	3.75	3.71	3.75	98.9	100	70.0-130			1.07	25
2-Chlorotoluene	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
Dibromochloromethane	3.75	3.60	3.56	96.0	94.9	70.0-130			1.12	25
1,2-Dibromoethane	3.75	3.64	3.68	97.1	98.1	70.0-130			1.09	25
1,2-Dichlorobenzene	3.75	3.81	3.77	102	101	70.0-130			1.06	25
1,3-Dichlorobenzene	3.75	3.82	3.73	102	99.5	70.0-130			2.38	25
1,4-Dichlorobenzene	3.75	3.77	3.77	101	101	70.0-130			0.000	25
1,2-Dichloroethane	3.75	3.61	3.68	96.3	98.1	70.0-130			1.92	25
1,2-Dichloropropane	3.75	3.57	3.63	95.2	96.8	70.0-130			1.67	25
cis-1,3-Dichloropropene	3.75	3.57	3.60	95.2	96.0	70.0-130			0.837	25
trans-1,3-Dichloropropene	3.75	3.51	3.50	93.6	93.3	70.0-130			0.285	25
1,4-Dioxane	3.75	3.44	3.48	91.7	92.8	70.0-140			1.16	25
Ethylbenzene	3.75	3.70	3.65	98.7	97.3	70.0-130			1.36	25
4-Ethyltoluene	3.75	3.85	3.79	103	101	70.0-130			1.57	25
Heptane	3.75	3.60	3.67	96.0	97.9	70.0-130			1.93	25
Hexachloro-1,3-butadiene	3.75	3.43	3.36	91.5	89.6	70.0-151			2.06	25
Isopropylbenzene	3.75	3.78	3.73	101	99.5	70.0-130			1.33	25
Methyl Butyl Ketone	3.75	3.75	3.80	100	101	70.0-149			1.32	25
4-Methyl-2-pentanone (MIBK)	3.75	3.41	3.43	90.9	91.5	70.0-139			0.585	25
Methyl methacrylate	3.75	3.55	3.61	94.7	96.3	70.0-130			1.68	25
Naphthalene	3.75	3.66	3.72	97.6	99.2	70.0-159			1.63	25
Styrene	3.75	3.77	3.77	101	101	70.0-130			0.000	25
1,1,2,2-Tetrachloroethane	3.75	3.58	3.51	95.5	93.6	70.0-130			1.97	25
Tetrachloroethylene	3.75	3.70	3.80	98.7	101	70.0-130			2.67	25
Toluene	3.75	3.64	3.62	97.1	96.5	70.0-130			0.551	25
1,2,4-Trichlorobenzene	3.75	3.69	3.60	98.4	96.0	70.0-160			2.47	25
1,1,2-Trichloroethane	3.75	3.67	3.70	97.9	98.7	70.0-130			0.814	25
Trichloroethylene	3.75	3.63	3.67	96.8	97.9	70.0-130			1.10	25
1,2,4-Trimethylbenzene	3.75	3.83	3.75	102	100	70.0-130			2.11	25
1,3,5-Trimethylbenzene	3.75	3.81	3.79	102	101	70.0-130			0.526	25
m&p-Xylene	7.50	7.36	7.25	98.1	96.7	70.0-130			1.51	25
o-Xylene	3.75	3.79	3.80	101	101	70.0-130			0.264	25
(S) 1,4-Bromofluorobenzene				101	102	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Released to Imaging: 4/17/2024 10:23:22 AM



ANALYTICAL REPORT

July 25, 2023

Ensolum, LLC

Sample Delivery Group: L1637373
Samples Received: 07/20/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

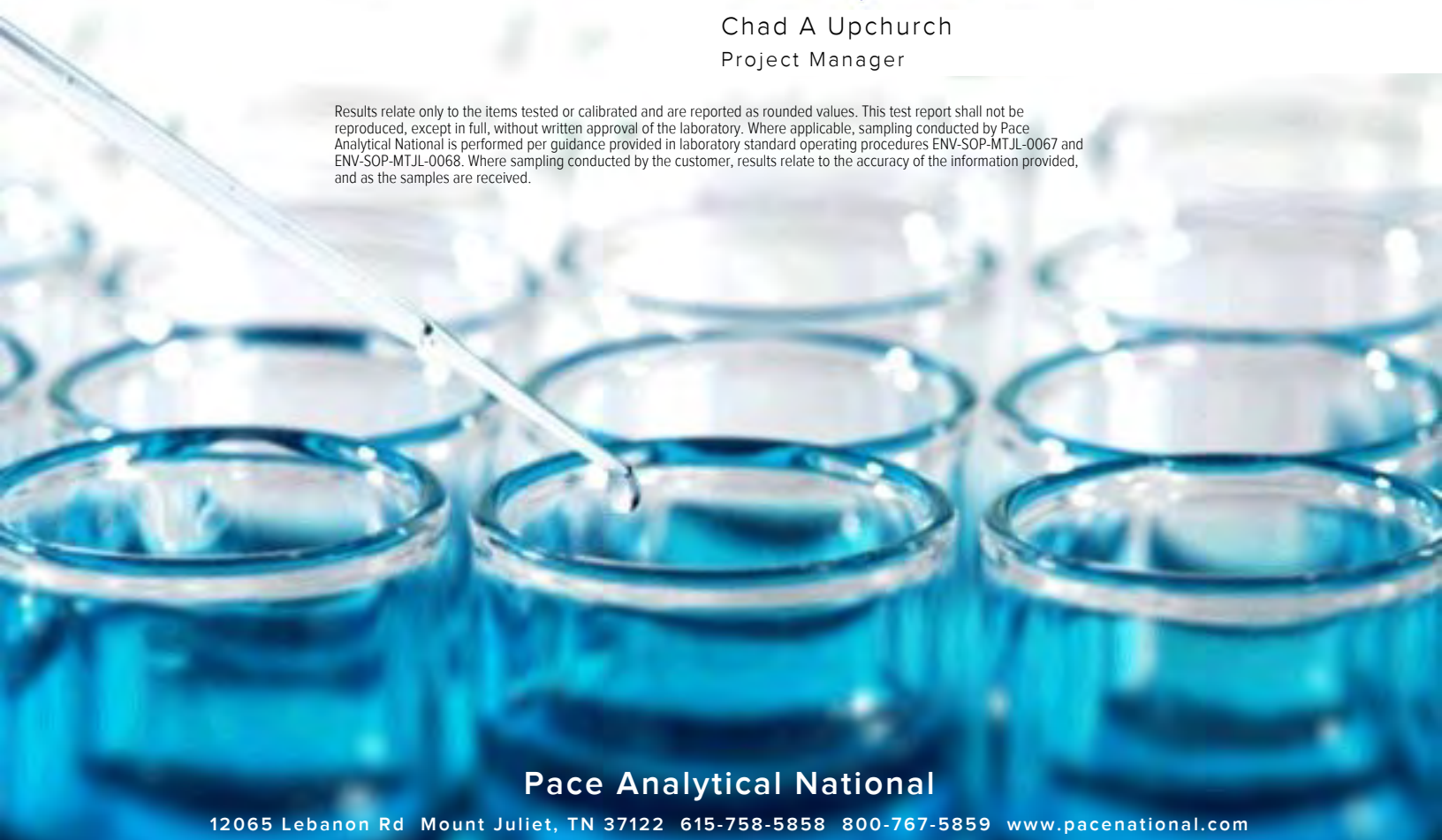


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1637373-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
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Al: Accreditations & Locations	18	
Sc: Sample Chain of Custody	19	⁹ Al
		¹⁰ Sc

LEVEY WELL L1637373-01 Air

Collected by
Shane Diller

Collected date/time
07/17/23 10:13

Received date/time
07/20/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2099272	200	07/22/23 00:35	07/22/23 00:35	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2099835	5000	07/22/23 20:58	07/22/23 20:58	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2100534	20000	07/24/23 15:17	07/24/23 15:17	SDS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Tr

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

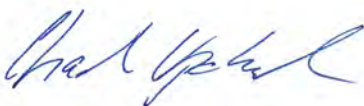
¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 07/25/2023 08:28					
Project Name: Levey Well		Laboratory Job Number: L1637373-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2099272, WG2099835 and WG2100534					
#1	A2	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 07/25/2023 08:28					
Project Name: Levey Well		Laboratory Job Number: L1637373-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2099272, WG2099835 and WG2100534					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 07/25/2023 08:28	
Project Name: Levey Well		Laboratory Job Number: L1637373-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2099272, WG2099835 and WG2100534	
ER #¹	Description		
The Exception Report intentionally left blank, there are no exceptions applied to this SDG.			
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 07/17/23 10:13

L1637373

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	250	594	3540	8410		200	WG2099272
Allyl chloride	107-05-1	76.53	40.0	125	ND	ND		200	WG2099272
Benzene	71-43-2	78.10	40.0	128	ND	ND		200	WG2099272
Benzyl Chloride	100-44-7	127	40.0	208	ND	ND		200	WG2099272
Bromodichloromethane	75-27-4	164	40.0	268	ND	ND		200	WG2099272
Bromoform	75-25-2	253	120	1240	ND	ND		200	WG2099272
Bromomethane	74-83-9	94.90	40.0	155	ND	ND		200	WG2099272
1,3-Butadiene	106-99-0	54.10	400	885	ND	ND		200	WG2099272
Carbon disulfide	75-15-0	76.10	40.0	124	ND	ND		200	WG2099272
Carbon tetrachloride	56-23-5	154	40.0	252	ND	ND		200	WG2099272
Chlorobenzene	108-90-7	113	40.0	185	ND	ND		200	WG2099272
Chloroethane	75-00-3	64.50	40.0	106	ND	ND		200	WG2099272
Chloroform	67-66-3	119	40.0	195	ND	ND		200	WG2099272
Chloromethane	74-87-3	50.50	40.0	82.6	ND	ND		200	WG2099272
2-Chlorotoluene	95-49-8	126	40.0	206	ND	ND		200	WG2099272
Cyclohexane	110-82-7	84.20	1000	3440	44500	153000		5000	WG2099835
Dibromochloromethane	124-48-1	208	40.0	340	ND	ND		200	WG2099272
1,2-Dibromoethane	106-93-4	188	40.0	308	ND	ND		200	WG2099272
1,2-Dichlorobenzene	95-50-1	147	40.0	240	ND	ND		200	WG2099272
1,3-Dichlorobenzene	541-73-1	147	40.0	240	ND	ND		200	WG2099272
1,4-Dichlorobenzene	106-46-7	147	40.0	240	ND	ND		200	WG2099272
1,2-Dichloroethane	107-06-2	99	40.0	162	ND	ND		200	WG2099272
1,1-Dichloroethane	75-34-3	98	40.0	160	ND	ND		200	WG2099272
1,1-Dichloroethene	75-35-4	96.90	40.0	159	ND	ND		200	WG2099272
cis-1,2-Dichloroethene	156-59-2	96.90	40.0	159	ND	ND		200	WG2099272
trans-1,2-Dichloroethene	156-60-5	96.90	40.0	159	ND	ND		200	WG2099272
1,2-Dichloropropane	78-87-5	113	40.0	185	ND	ND		200	WG2099272
cis-1,3-Dichloropropene	10061-01-5	111	40.0	182	ND	ND		200	WG2099272
trans-1,3-Dichloropropene	10061-02-6	111	40.0	182	ND	ND		200	WG2099272
1,4-Dioxane	123-91-1	88.10	40.0	144	ND	ND		200	WG2099272
Ethanol	64-17-5	46.10	500	943	1120	2110		200	WG2099272
Ethylbenzene	100-41-4	106	40.0	173	77.2	335		200	WG2099272
4-Ethyltoluene	622-96-8	120	40.0	196	58.6	288		200	WG2099272
Trichlorofluoromethane	75-69-4	137.40	40.0	225	ND	ND		200	WG2099272
Dichlorodifluoromethane	75-71-8	120.92	40.0	198	ND	ND		200	WG2099272
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	40.0	307	ND	ND		200	WG2099272
1,2-Dichlorotetrafluoroethane	76-14-2	171	40.0	280	ND	ND		200	WG2099272
Heptane	142-82-5	100	1000	4090	46500	190000		5000	WG2099835
Hexachloro-1,3-butadiene	87-68-3	261	126	1350	ND	ND		200	WG2099272
n-Hexane	110-54-3	86.20	12600	44400	789000	2780000		20000	WG2100534
Isopropylbenzene	98-82-8	120.20	40.0	197	ND	ND		200	WG2099272
Methylene Chloride	75-09-2	84.90	40.0	139	ND	ND		200	WG2099272
Methyl Butyl Ketone	591-78-6	100	250	1020	ND	ND		200	WG2099272
2-Butanone (MEK)	78-93-3	72.10	250	737	1100	3240		200	WG2099272
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	250	1020	ND	ND		200	WG2099272
Methyl methacrylate	80-62-6	100.12	40.0	164	ND	ND		200	WG2099272
MTBE	1634-04-4	88.10	40.0	144	ND	ND		200	WG2099272
Naphthalene	91-20-3	128	126	660	ND	ND		200	WG2099272
2-Propanol	67-63-0	60.10	250	615	10000	24600		200	WG2099272
Propene	115-07-1	42.10	250	430	ND	ND		200	WG2099272
Styrene	100-42-5	104	40.0	170	ND	ND		200	WG2099272
1,1,2,2-Tetrachloroethane	79-34-5	168	40.0	275	ND	ND		200	WG2099272
Tetrachloroethylene	127-18-4	166	40.0	272	ND	ND		200	WG2099272
Tetrahydrofuran	109-99-9	72.10	40.0	118	ND	ND		200	WG2099272
Toluene	108-88-3	92.10	100	377	ND	ND		200	WG2099272
1,2,4-Trichlorobenzene	120-82-1	181	126	933	ND	ND		200	WG2099272

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 07/17/23 10:13

L1637373

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	40.0	218	ND	ND		200	WG2099272
1,1,2-Trichloroethane	79-00-5	133	40.0	218	ND	ND		200	WG2099272
Trichloroethylene	79-01-6	131	40.0	214	ND	ND		200	WG2099272
1,2,4-Trimethylbenzene	95-63-6	120	40.0	196	ND	ND		200	WG2099272
1,3,5-Trimethylbenzene	108-67-8	120	40.0	196	ND	ND		200	WG2099272
2,2,4-Trimethylpentane	540-84-1	114.22	40.0	187	ND	ND		200	WG2099272
Vinyl chloride	75-01-4	62.50	40.0	102	ND	ND		200	WG2099272
Vinyl Bromide	593-60-2	106.95	40.0	175	ND	ND		200	WG2099272
Vinyl acetate	108-05-4	86.10	40.0	141	ND	ND		200	WG2099272
m&p-Xylene	1330-20-7	106	80.0	347	160	694		200	WG2099272
o-Xylene	95-47-6	106	40.0	173	93.4	405		200	WG2099272
TPH (GC/MS) Low Fraction	8006-61-9	101	1000000	4130000	1630000	6730000		5000	WG2099835
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2099272
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		89.4				WG2099835
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.5				WG2100534

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3951540-3 07/21/23 11:05

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1637373-01

Method Blank (MB)

(MB) R3951540-3 07/21/23 11:05

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.168	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	100			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3951540-1 07/21/23 09:44 • (LCSD) R3951540-2 07/21/23 10:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.70	3.76	98.7	100	70.0-130			1.61	25
Allyl chloride	3.75	3.99	3.94	106	105	70.0-130			1.26	25
Benzene	3.75	3.86	3.80	103	101	70.0-130			1.57	25
Benzyl Chloride	3.75	4.08	4.02	109	107	70.0-152			1.48	25
Bromodichloromethane	3.75	3.91	3.85	104	103	70.0-130			1.55	25
Bromoform	3.75	3.79	3.79	101	101	70.0-130			0.000	25
Bromomethane	3.75	3.74	3.72	99.7	99.2	70.0-130			0.536	25
1,3-Butadiene	3.75	3.94	3.96	105	106	70.0-130			0.506	25

Volatile Organic Compounds (MS) by Method TO-15

L1637373-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3951540-1 07/21/23 09:44 • (LCSD) R3951540-2 07/21/23 10:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	3.75	3.77	3.76	101	100	70.0-130			0.266	25
Carbon tetrachloride	3.75	3.97	3.85	106	103	70.0-130			3.07	25
Chlorobenzene	3.75	3.88	3.82	103	102	70.0-130			1.56	25
Chloroethane	3.75	3.32	3.42	88.5	91.2	70.0-130			2.97	25
Chloroform	3.75	3.84	3.84	102	102	70.0-130			0.000	25
Chloromethane	3.75	3.89	3.96	104	106	70.0-130			1.78	25
2-Chlorotoluene	3.75	3.85	3.87	103	103	70.0-130			0.518	25
Dibromochloromethane	3.75	3.84	3.83	102	102	70.0-130			0.261	25
1,2-Dibromoethane	3.75	3.93	3.89	105	104	70.0-130			1.02	25
1,2-Dichlorobenzene	3.75	3.92	3.86	105	103	70.0-130			1.54	25
1,3-Dichlorobenzene	3.75	3.96	3.92	106	105	70.0-130			1.02	25
1,4-Dichlorobenzene	3.75	4.02	3.95	107	105	70.0-130			1.76	25
1,2-Dichloroethane	3.75	4.00	3.95	107	105	70.0-130			1.26	25
1,1-Dichloroethane	3.75	3.92	3.89	105	104	70.0-130			0.768	25
1,1-Dichloroethene	3.75	3.85	3.87	103	103	70.0-130			0.518	25
cis-1,2-Dichloroethene	3.75	3.94	3.95	105	105	70.0-130			0.253	25
trans-1,2-Dichloroethene	3.75	3.90	3.87	104	103	70.0-130			0.772	25
1,2-Dichloropropane	3.75	3.78	3.85	101	103	70.0-130			1.83	25
cis-1,3-Dichloropropene	3.75	3.95	3.91	105	104	70.0-130			1.02	25
trans-1,3-Dichloropropene	3.75	3.92	3.92	105	105	70.0-130			0.000	25
1,4-Dioxane	3.75	3.79	3.79	101	101	70.0-140			0.000	25
Ethanol	3.75	3.79	3.75	101	100	55.0-148			1.06	25
Ethylbenzene	3.75	3.95	3.95	105	105	70.0-130			0.000	25
4-Ethyltoluene	3.75	3.92	3.90	105	104	70.0-130			0.512	25
Trichlorofluoromethane	3.75	3.94	3.90	105	104	70.0-130			1.02	25
Dichlorodifluoromethane	3.75	3.86	3.89	103	104	64.0-139			0.774	25
1,1,2-Trichlorotrifluoroethane	3.75	3.84	3.79	102	101	70.0-130			1.31	25
1,2-Dichlorotetrafluoroethane	3.75	3.80	3.88	101	103	70.0-130			2.08	25
Hexachloro-1,3-butadiene	3.75	3.88	3.84	103	102	70.0-151			1.04	25
Isopropylbenzene	3.75	3.87	3.84	103	102	70.0-130			0.778	25
Methylene Chloride	3.75	3.90	3.90	104	104	70.0-130			0.000	25
Methyl Butyl Ketone	3.75	4.09	4.08	109	109	70.0-149			0.245	25
2-Butanone (MEK)	3.75	3.95	3.82	105	102	70.0-130			3.35	25
4-Methyl-2-pentanone (MIBK)	3.75	4.04	4.00	108	107	70.0-139			0.995	25
Methyl methacrylate	3.75	3.81	3.73	102	99.5	70.0-130			2.12	25
MTBE	3.75	3.97	3.98	106	106	70.0-130			0.252	25
Naphthalene	3.75	4.04	4.00	108	107	70.0-159			0.995	25
2-Propanol	3.75	3.93	3.88	105	103	70.0-139			1.28	25
Propene	3.75	3.59	3.65	95.7	97.3	64.0-144			1.66	25
Styrene	3.75	3.90	3.87	104	103	70.0-130			0.772	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3951540-1 07/21/23 09:44 • (LCSD) R3951540-2 07/21/23 10:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	3.75	3.83	3.80	102	101	70.0-130			0.786	25
Tetrachloroethylene	3.75	3.87	3.85	103	103	70.0-130			0.518	25
Tetrahydrofuran	3.75	3.95	3.98	105	106	70.0-137			0.757	25
Toluene	3.75	3.86	3.87	103	103	70.0-130			0.259	25
1,2,4-Trichlorobenzene	3.75	3.98	3.90	106	104	70.0-160			2.03	25
1,1,1-Trichloroethane	3.75	3.93	3.85	105	103	70.0-130			2.06	25
1,1,2-Trichloroethane	3.75	3.81	3.81	102	102	70.0-130			0.000	25
Trichloroethylene	3.75	3.91	3.86	104	103	70.0-130			1.29	25
1,2,4-Trimethylbenzene	3.75	3.88	3.87	103	103	70.0-130			0.258	25
1,3,5-Trimethylbenzene	3.75	3.87	3.79	103	101	70.0-130			2.09	25
2,2,4-Trimethylpentane	3.75	3.95	3.92	105	105	70.0-130			0.762	25
Vinyl chloride	3.75	3.84	3.89	102	104	70.0-130			1.29	25
Vinyl Bromide	3.75	3.74	3.71	99.7	98.9	70.0-130			0.805	25
Vinyl acetate	3.75	3.78	3.85	101	103	70.0-130			1.83	25
m&p-Xylene	7.50	7.80	7.71	104	103	70.0-130			1.16	25
o-Xylene	3.75	3.85	3.83	103	102	70.0-130			0.521	25
(S) 1,4-Bromofluorobenzene				100	99.9	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1637373-01](#)

Method Blank (MB)

(MB) R3951785-2 07/22/23 08:50

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	93.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3951785-1 07/22/23 08:07 • (LCSD) R3951785-3 07/22/23 10:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	4.68	4.81	125	128	70.0-130			2.74	25
Heptane	3.75	4.58	4.46	122	119	70.0-130			2.65	25
TPH (GC/MS) Low Fraction	188	213	217	113	115	70.0-130			1.86	25
(S) 1,4-Bromofluorobenzene				94.1	96.0	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1637373-01](#)

Method Blank (MB)

(MB) R3952196-2 07/24/23 10:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	95.5			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3952196-1 07/24/23 09:57 • (LCSD) R3952196-3 07/24/23 11:19

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.22	4.17	113	111	70.0-130			1.19	25
(S) 1,4-Bromofluorobenzene				95.6	94.7	60.0-140				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

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6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

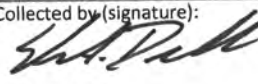
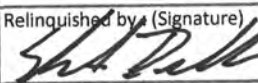
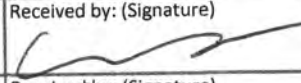
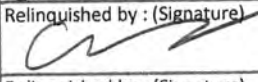
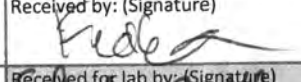
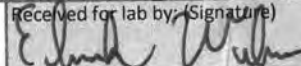
⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701				Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220				Analysis / Container / Preservative				Chain of Custody  12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf			
Report to: Beaux Jennings				Email To: bjennings@ensolum.com				TO-15 Summa				SDG # U63737 H210 Acctnum: ENSOLUMMTX Template: T180734 Prelogin: P827709 PM: 134 - Mark W. Beasley PB: Shipped Via:			
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT MT CT ET											
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMMTX-SUMMA											
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001											
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Quote # Date Results Needed											
Immediately Packed on Ice N ☒ Y ☐				No. of Cntrs											
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time										
Levey Well	G	Air	-	7-17-23	1013	1	X								
~~NFE 7-17-23~~															
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other															
Remarks:															
pH _____ Temp _____ Flow _____ Other _____															
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier						Tracking #									
Relinquished by: (Signature) 				Date: 7/19/23		Time: 1130		Received by: (Signature) 							
Relinquished by: (Signature) 				Date: 7/19/23		Time: 1700		Received by: (Signature) 							
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) 							
Trip Blank Received: Yes / No HCL / MeOH TBR								Temp: °C Bottles Received:							
If preservation required by Login: Date/Time								Hold:							
Condition: NCF / OK								Date: 7/20 Time: 0915							



ANALYTICAL REPORT

August 03, 2023

Ensolum, LLC

Sample Delivery Group: L1641062
Samples Received: 08/01/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

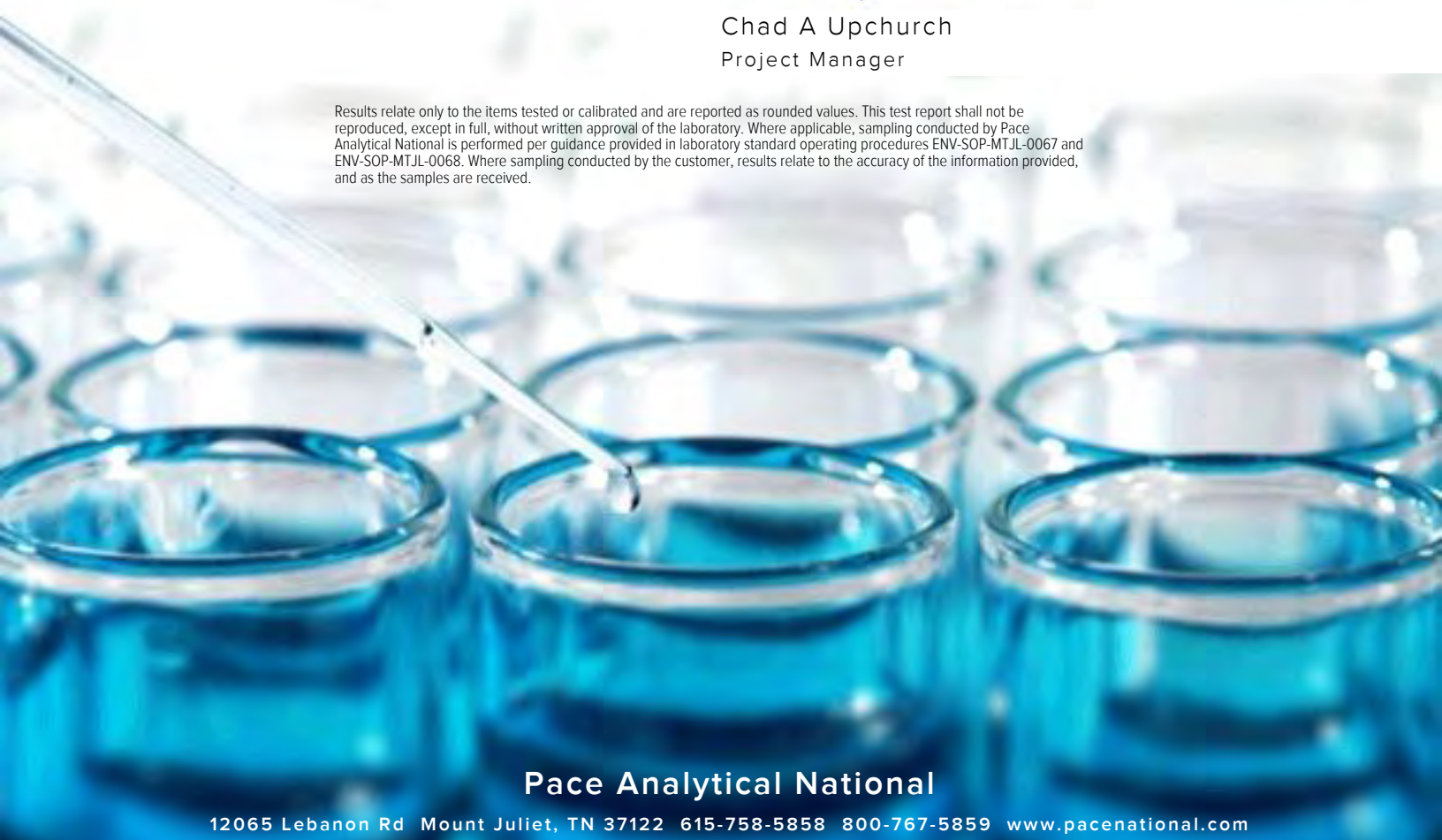


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1641062-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	16	⁸ Gl
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	⁹ Al
		¹⁰ Sc

LEVEY WELL L1641062-01 Air

Collected by
Shane Diller

Collected date/time
07/27/23 09:28

Received date/time
08/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2105756	20	08/02/23 02:26	08/02/23 02:26	SDS	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2106619	2000	08/02/23 22:42	08/02/23 22:42	JAP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

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⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

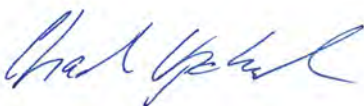
- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Tr
- ⁶Sr
- ⁷Qc
- ⁸Gl
- ⁹Al
- ¹⁰Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 08/03/2023 09:57				
Project Name: Levey Well			Laboratory Job Number: L1641062-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2105756 and WG2106619				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			1
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National			LRC Date: 08/03/2023 09:57				
Project Name: Levey Well			Laboratory Job Number: L1641062-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2105756 and WG2106619				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 08/03/2023 09:57	
Project Name: Levey Well		Laboratory Job Number: L1641062-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2105756 and WG2106619	
ER #¹	Description		
1	TO-15 WG2105756 Propene: Relative Percent Difference is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 07/27/23 09:28

L1641062

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	ND	ND		20	WG2105756
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG2105756
Benzene	71-43-2	78.10	4.00	12.8	7.39	23.6		20	WG2105756
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG2105756
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG2105756
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG2105756
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG2105756
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG2105756
Carbon disulfide	75-15-0	76.10	4.00	12.4	1270	3950		20	WG2105756
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG2105756
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG2105756
Chloroethane	75-00-3	64.50	4.00	10.6	396	1040		20	WG2105756
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG2105756
Chloromethane	74-87-3	50.50	4.00	8.26	142	293		20	WG2105756
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG2105756
Cyclohexane	110-82-7	84.20	400	1380	2110	7270		2000	WG2106619
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG2105756
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG2105756
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG2105756
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG2105756
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG2105756
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG2105756
1,1-Dichloroethane	75-34-3	98	4.00	16.0	9.55	38.3		20	WG2105756
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG2105756
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG2105756
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG2105756
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG2105756
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG2105756
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG2105756
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG2105756
Ethanol	64-17-5	46.10	50.0	94.3	188	354		20	WG2105756
Ethylbenzene	100-41-4	106	4.00	17.3	56.6	245		20	WG2105756
4-Ethyltoluene	622-96-8	120	4.00	19.6	5.90	29.0		20	WG2105756
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG2105756
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG2105756
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG2105756
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG2105756
Heptane	142-82-5	100	4.00	16.4	1970	8060		20	WG2105756
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG2105756
n-Hexane	110-54-3	86.20	1260	4440	15500	54600		2000	WG2106619
Isopropylbenzene	98-82-8	120.20	4.00	19.7	7.43	36.5		20	WG2105756
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG2105756
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG2105756
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	472	1390		20	WG2105756
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG2105756
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG2105756
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG2105756
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG2105756
2-Propanol	67-63-0	60.10	25.0	61.5	1310	3220		20	WG2105756
Propene	115-07-1	42.10	25.0	43.0	ND	ND	J3	20	WG2105756
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG2105756
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG2105756
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG2105756
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG2105756
Toluene	108-88-3	92.10	10.0	37.7	54.9	207		20	WG2105756
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG2105756

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 07/27/23 09:28

L1641062

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG2105756
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG2105756
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG2105756
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	8.71	42.7		20	WG2105756
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	5.41	26.6		20	WG2105756
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG2105756
Vinyl chloride	75-01-4	62.50	4.00	10.2	5.34	13.7		20	WG2105756
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG2105756
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG2105756
m&p-Xylene	1330-20-7	106	8.00	34.7	49.8	216		20	WG2105756
o-Xylene	95-47-6	106	4.00	17.3	29.1	126		20	WG2105756
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	43000	178000		20	WG2105756
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.0				WG2105756
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.8				WG2106619

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R3955778-3 08/01/23 11:49

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.447	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1641062-01

Method Blank (MB)

(MB) R3955778-3 08/01/23 11:49

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.192	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	89.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3955778-1 08/01/23 09:18 • (LCSD) R3955778-2 08/01/23 11:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.55	3.92	94.7	105	70.0-130			9.91	25
Allyl chloride	3.75	3.70	3.78	98.7	101	70.0-130			2.14	25
Benzene	3.75	3.41	3.44	90.9	91.7	70.0-130			0.876	25
Benzyl Chloride	3.75	3.37	3.37	89.9	89.9	70.0-152			0.000	25
Bromodichloromethane	3.75	3.60	3.69	96.0	98.4	70.0-130			2.47	25
Bromoform	3.75	3.64	3.60	97.1	96.0	70.0-130			1.10	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3955778-1 08/01/23 09:18 • (LCSD) R3955778-2 08/01/23 11:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromomethane	3.75	4.58	4.73	122	126	70.0-130			3.22	25
1,3-Butadiene	3.75	4.31	4.44	115	118	70.0-130			2.97	25
Carbon disulfide	3.75	4.05	3.97	108	106	70.0-130			2.00	25
Carbon tetrachloride	3.75	3.69	3.74	98.4	99.7	70.0-130			1.35	25
Chlorobenzene	3.75	3.72	3.67	99.2	97.9	70.0-130			1.35	25
Chloroethane	3.75	4.42	4.47	118	119	70.0-130			1.12	25
Chloroform	3.75	3.48	3.48	92.8	92.8	70.0-130			0.000	25
Chloromethane	3.75	3.77	3.90	101	104	70.0-130			3.39	25
2-Chlorotoluene	3.75	3.86	4.03	103	107	70.0-130			4.31	25
Dibromochloromethane	3.75	3.77	3.89	101	104	70.0-130			3.13	25
1,2-Dibromoethane	3.75	3.92	3.92	105	105	70.0-130			0.000	25
1,2-Dichlorobenzene	3.75	4.18	4.10	111	109	70.0-130			1.93	25
1,3-Dichlorobenzene	3.75	3.99	4.21	106	112	70.0-130			5.37	25
1,4-Dichlorobenzene	3.75	4.16	3.96	111	106	70.0-130			4.93	25
1,2-Dichloroethane	3.75	3.66	3.72	97.6	99.2	70.0-130			1.63	25
1,1-Dichloroethane	3.75	3.56	3.13	94.9	83.5	70.0-130			12.9	25
1,1-Dichloroethene	3.75	4.04	4.11	108	110	70.0-130			1.72	25
cis-1,2-Dichloroethene	3.75	3.35	3.38	89.3	90.1	70.0-130			0.892	25
trans-1,2-Dichloroethene	3.75	4.06	4.14	108	110	70.0-130			1.95	25
1,2-Dichloropropane	3.75	3.27	3.24	87.2	86.4	70.0-130			0.922	25
cis-1,3-Dichloropropene	3.75	4.38	3.95	117	105	70.0-130			10.3	25
trans-1,3-Dichloropropene	3.75	3.79	3.75	101	100	70.0-130			1.06	25
1,4-Dioxane	3.75	4.67	4.51	125	120	70.0-140			3.49	25
Ethanol	3.75	4.07	3.53	109	94.1	55.0-148			14.2	25
Ethylbenzene	3.75	3.72	3.77	99.2	101	70.0-130			1.34	25
4-Ethyltoluene	3.75	4.07	4.09	109	109	70.0-130			0.490	25
Trichlorofluoromethane	3.75	4.21	4.29	112	114	70.0-130			1.88	25
Dichlorodifluoromethane	3.75	3.93	3.90	105	104	64.0-139			0.766	25
1,1,2-Trichlorotrifluoroethane	3.75	4.36	4.45	116	119	70.0-130			2.04	25
1,2-Dichlorotetrafluoroethane	3.75	4.03	4.02	107	107	70.0-130			0.248	25
Heptane	3.75	3.33	3.34	88.8	89.1	70.0-130			0.300	25
Hexachloro-1,3-butadiene	3.75	3.86	3.95	103	105	70.0-151			2.30	25
Isopropylbenzene	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
Methylene Chloride	3.75	3.73	3.76	99.5	100	70.0-130			0.801	25
Methyl Butyl Ketone	3.75	3.30	3.38	88.0	90.1	70.0-149			2.40	25
2-Butanone (MEK)	3.75	3.36	3.36	89.6	89.6	70.0-130			0.000	25
4-Methyl-2-pentanone (MIBK)	3.75	3.14	3.20	83.7	85.3	70.0-139			1.89	25
Methyl methacrylate	3.75	3.90	4.00	104	107	70.0-130			2.53	25
MTBE	3.75	3.74	3.18	99.7	84.8	70.0-130			16.2	25
Naphthalene	3.75	3.72	3.88	99.2	103	70.0-159			4.21	25

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3955778-1 08/01/23 09:18 • (LCSD) R3955778-2 08/01/23 11:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	3.72	3.84	99.2	102	70.0-139			3.17	25
Propene	3.75	3.52	2.61	93.9	69.6	64.0-144		J3	29.7	25
Styrene	3.75	4.32	4.42	115	118	70.0-130			2.29	25
1,1,2,2-Tetrachloroethane	3.75	3.43	3.52	91.5	93.9	70.0-130			2.59	25
Tetrachloroethylene	3.75	3.99	3.98	106	106	70.0-130			0.251	25
Tetrahydrofuran	3.75	3.31	3.10	88.3	82.7	70.0-137			6.55	25
Toluene	3.75	3.64	3.64	97.1	97.1	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	3.70	3.93	98.7	105	70.0-160			6.03	25
1,1,1-Trichloroethane	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
1,1,2-Trichloroethane	3.75	3.85	4.03	103	107	70.0-130			4.57	25
Trichloroethylene	3.75	3.83	3.87	102	103	70.0-130			1.04	25
1,2,4-Trimethylbenzene	3.75	4.11	4.20	110	112	70.0-130			2.17	25
1,3,5-Trimethylbenzene	3.75	4.20	4.13	112	110	70.0-130			1.68	25
2,2,4-Trimethylpentane	3.75	2.83	2.82	75.5	75.2	70.0-130			0.354	25
Vinyl chloride	3.75	4.03	4.11	107	110	70.0-130			1.97	25
Vinyl Bromide	3.75	4.52	4.65	121	124	70.0-130			2.84	25
Vinyl acetate	3.75	2.76	2.69	73.6	71.7	70.0-130			2.57	25
m&p-Xylene	7.50	7.65	7.59	102	101	70.0-130			0.787	25
o-Xylene	3.75	3.93	4.08	105	109	70.0-130			3.75	25
TPH (GC/MS) Low Fraction	188	157	158	83.5	84.0	70.0-130			0.635	25
(S) 1,4-Bromofluorobenzene				96.0	98.5	60.0-140				

¹Cp

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Volatile Organic Compounds (MS) by Method TO-15 [L1641062-01](#)

Method Blank (MB)

(MB) R3956195-3 08/02/23 18:40

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	96.1			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3956195-1 08/02/23 13:42 • (LCSD) R3956195-2 08/02/23 17:25

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	3.81	3.82	102	102	70.0-130			0.262	25
n-Hexane	3.75	3.78	3.86	101	103	70.0-130			2.09	25
(S) 1,4-Bromofluorobenzene				94.0	93.0	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

1Cp

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Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

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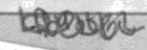
⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701				Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220				Analysis / Container / Preservative 				Chain of Custody Page <u>1</u> of <u>1</u>  Pace Analytical® National Center for Testing & Innovation 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf			
Report to: Beaux Jennings				Email To: bjennings@ensolum.com				L1641062  G146							
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT ☒ MT ☐ CT ☐ ET ☐											
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMMTX-SUMMA											
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001											
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☒ Three Day		Quote # 											
Immediately Packed on Ice ☐ ☒ ☐		Date Results Needed 		No. of Cntrs 											
Sample ID		Comp/Grab		Matrix *		Depth		Date		Time					
Levey Well		G		Air		—		7-27-23		0928					



ANALYTICAL REPORT

August 08, 2023

Ensolum, LLC

Sample Delivery Group: L1642062
Samples Received: 08/03/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

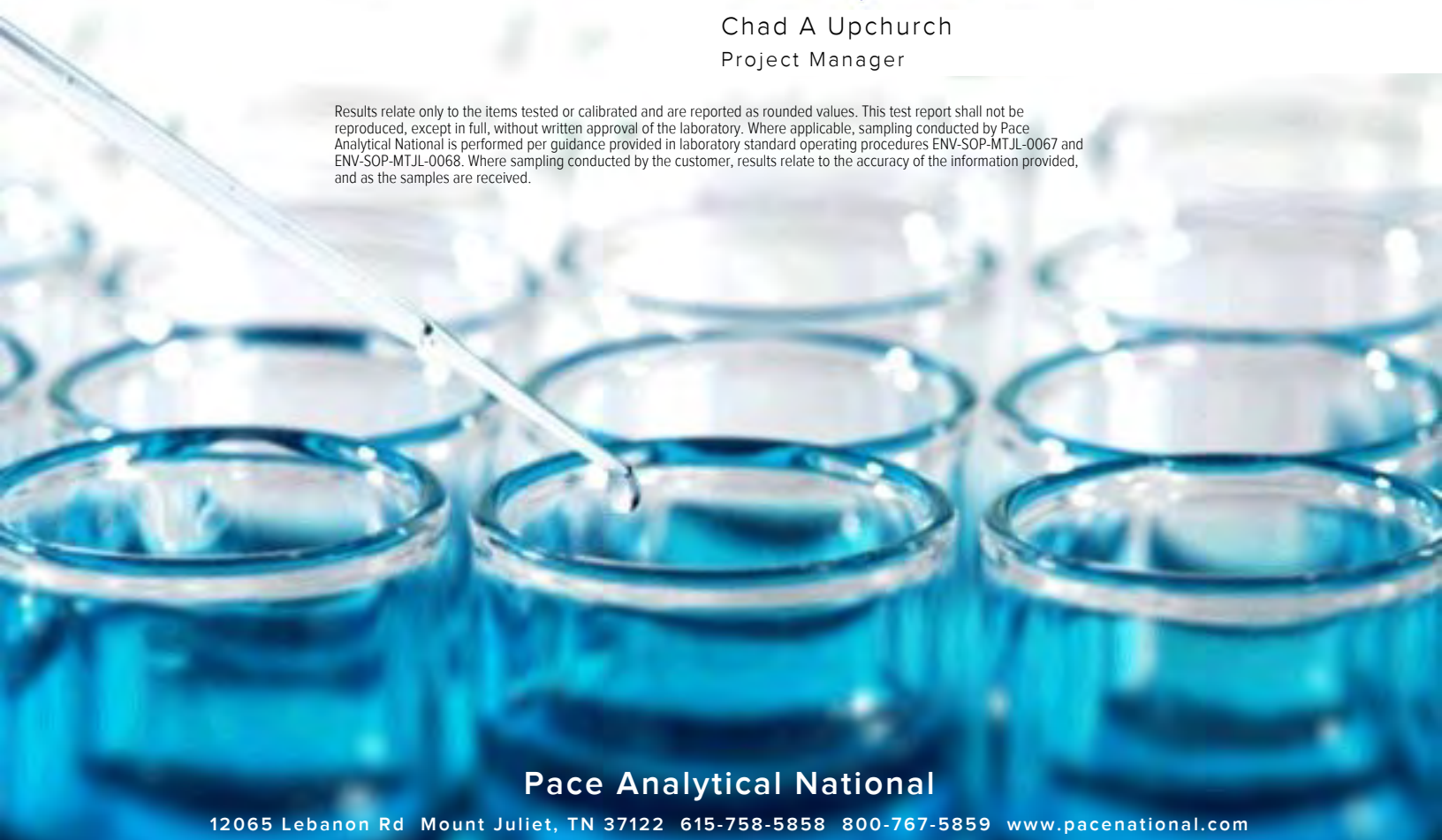


Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chad Upchurch".

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Tr: TRRP Summary	5	³ Ss
TRRP form R	6	
TRRP form S	7	⁴ Cn
TRRP Exception Reports	8	⁵ Tr
Sr: Sample Results	9	
LEVEY WELL L1642062-01	9	⁶ Sr
Qc: Quality Control Summary	11	⁷ Qc
Volatile Organic Compounds (MS) by Method TO-15	11	
Gl: Glossary of Terms	15	⁸ Gl
Al: Accreditations & Locations	16	
Sc: Sample Chain of Custody	17	⁹ Al
		¹⁰ Sc

LEVEY WELL L1642062-01 Air

Collected by
Shane Diller

Collected date/time
07/31/23 09:30

Received date/time
08/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2109804	10000	08/08/23 12:53	08/08/23 12:53	SDS	Mt. Juliet, TN

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¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



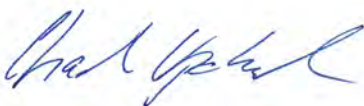
Chad A Upchurch
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 08/08/2023 18:24					
Project Name: Levey Well		Laboratory Job Number: L1642062-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2109804					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			1
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 08/08/2023 18:24					
Project Name: Levey Well		Laboratory Job Number: L1642062-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2109804					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 08/08/2023 18:24	
Project Name: Levey Well		Laboratory Job Number: L1642062-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2109804	
ER # ¹	Description		
1	TO-15 WG2109804 1,1,2-Trichlorotrifluoroethane: Relative Percent Difference is outside of established control limits.		
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).			

Collected date/time: 07/31/23 09:30

L1642062

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	12500	29700	ND	ND		10000	WG2109804
Allyl chloride	107-05-1	76.53	2000	6260	ND	ND		10000	WG2109804
Benzene	71-43-2	78.10	2000	6390	ND	ND		10000	WG2109804
Benzyl Chloride	100-44-7	127	2000	10400	ND	ND		10000	WG2109804
Bromodichloromethane	75-27-4	164	2000	13400	ND	ND		10000	WG2109804
Bromoform	75-25-2	253	6000	62100	ND	ND		10000	WG2109804
Bromomethane	74-83-9	94.90	2000	7760	ND	ND		10000	WG2109804
1,3-Butadiene	106-99-0	54.10	20000	44300	ND	ND		10000	WG2109804
Carbon disulfide	75-15-0	76.10	2000	6220	2820	8780		10000	WG2109804
Carbon tetrachloride	56-23-5	154	2000	12600	ND	ND		10000	WG2109804
Chlorobenzene	108-90-7	113	2000	9240	ND	ND		10000	WG2109804
Chloroethane	75-00-3	64.50	2000	5280	ND	ND		10000	WG2109804
Chloroform	67-66-3	119	2000	9730	ND	ND		10000	WG2109804
Chloromethane	74-87-3	50.50	2000	4130	ND	ND		10000	WG2109804
2-Chlorotoluene	95-49-8	126	2000	10300	ND	ND		10000	WG2109804
Cyclohexane	110-82-7	84.20	2000	6890	2100	7230		10000	WG2109804
Dibromochloromethane	124-48-1	208	2000	17000	ND	ND		10000	WG2109804
1,2-Dibromoethane	106-93-4	188	2000	15400	ND	ND		10000	WG2109804
1,2-Dichlorobenzene	95-50-1	147	2000	12000	ND	ND		10000	WG2109804
1,3-Dichlorobenzene	541-73-1	147	2000	12000	ND	ND		10000	WG2109804
1,4-Dichlorobenzene	106-46-7	147	2000	12000	ND	ND		10000	WG2109804
1,2-Dichloroethane	107-06-2	99	2000	8100	ND	ND		10000	WG2109804
1,1-Dichloroethane	75-34-3	98	2000	8020	ND	ND		10000	WG2109804
1,1-Dichloroethene	75-35-4	96.90	2000	7930	ND	ND		10000	WG2109804
cis-1,2-Dichloroethene	156-59-2	96.90	2000	7930	ND	ND		10000	WG2109804
trans-1,2-Dichloroethene	156-60-5	96.90	2000	7930	ND	ND		10000	WG2109804
1,2-Dichloropropane	78-87-5	113	2000	9240	ND	ND		10000	WG2109804
cis-1,3-Dichloropropene	10061-01-5	111	2000	9080	ND	ND		10000	WG2109804
trans-1,3-Dichloropropene	10061-02-6	111	2000	9080	ND	ND		10000	WG2109804
1,4-Dioxane	123-91-1	88.10	2000	7210	ND	ND		10000	WG2109804
Ethanol	64-17-5	46.10	25000	47100	ND	ND		10000	WG2109804
Ethylbenzene	100-41-4	106	2000	8670	ND	ND		10000	WG2109804
4-Ethyltoluene	622-96-8	120	2000	9820	ND	ND		10000	WG2109804
Trichlorofluoromethane	75-69-4	137.40	2000	11200	ND	ND		10000	WG2109804
Dichlorodifluoromethane	75-71-8	120.92	2000	9890	ND	ND		10000	WG2109804
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	2000	15300	ND	ND	J3	10000	WG2109804
1,2-Dichlorotetrafluoroethane	76-14-2	171	2000	14000	ND	ND		10000	WG2109804
Heptane	142-82-5	100	2000	8180	ND	ND		10000	WG2109804
Hexachloro-1,3-butadiene	87-68-3	261	6300	67300	ND	ND		10000	WG2109804
n-Hexane	110-54-3	86.20	6300	22200	24100	85000		10000	WG2109804
Isopropylbenzene	98-82-8	120.20	2000	9830	ND	ND		10000	WG2109804
Methylene Chloride	75-09-2	84.90	2000	6940	ND	ND		10000	WG2109804
Methyl Butyl Ketone	591-78-6	100	12500	51100	ND	ND		10000	WG2109804
2-Butanone (MEK)	78-93-3	72.10	12500	36900	ND	ND		10000	WG2109804
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	12500	51200	ND	ND		10000	WG2109804
Methyl methacrylate	80-62-6	100.12	2000	8190	ND	ND		10000	WG2109804
MTBE	1634-04-4	88.10	2000	7210	ND	ND		10000	WG2109804
Naphthalene	91-20-3	128	6300	33000	ND	ND		10000	WG2109804
2-Propanol	67-63-0	60.10	12500	30700	55800	137000		10000	WG2109804
Propene	115-07-1	42.10	12500	21500	ND	ND		10000	WG2109804
Styrene	100-42-5	104	2000	8510	ND	ND		10000	WG2109804
1,1,2,2-Tetrachloroethane	79-34-5	168	2000	13700	ND	ND		10000	WG2109804
Tetrachloroethylene	127-18-4	166	2000	13600	ND	ND		10000	WG2109804
Tetrahydrofuran	109-99-9	72.10	2000	5900	ND	ND		10000	WG2109804
Toluene	108-88-3	92.10	5000	18800	ND	ND		10000	WG2109804
1,2,4-Trichlorobenzene	120-82-1	181	6300	46600	ND	ND		10000	WG2109804

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 07/31/23 09:30

L1642062

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	2000	10900	ND	ND		10000	WG2109804
1,1,2-Trichloroethane	79-00-5	133	2000	10900	ND	ND		10000	WG2109804
Trichloroethylene	79-01-6	131	2000	10700	ND	ND		10000	WG2109804
1,2,4-Trimethylbenzene	95-63-6	120	2000	9820	ND	ND		10000	WG2109804
1,3,5-Trimethylbenzene	108-67-8	120	2000	9820	ND	ND		10000	WG2109804
2,2,4-Trimethylpentane	540-84-1	114.22	2000	9340	ND	ND		10000	WG2109804
Vinyl chloride	75-01-4	62.50	2000	5110	ND	ND		10000	WG2109804
Vinyl Bromide	593-60-2	106.95	2000	8750	ND	ND		10000	WG2109804
Vinyl acetate	108-05-4	86.10	2000	7040	ND	ND		10000	WG2109804
m&p-Xylene	1330-20-7	106	4000	17300	ND	ND		10000	WG2109804
o-Xylene	95-47-6	106	2000	8670	ND	ND		10000	WG2109804
TPH (GC/MS) Low Fraction	8006-61-9	101	2000000	8260000	ND	ND		10000	WG2109804
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.0				WG2109804

Sample Narrative:

L1642062-01 WG2109804: Non-target compounds too high to run at a lower dilution.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1642062-01

Method Blank (MB)

(MB) R3958208-2 08/08/23 10:03

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.766	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1642062-01

Method Blank (MB)

(MB) R3958208-2 08/08/23 10:03

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	95.5			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3958208-1 08/08/23 09:24 • (LCSD) R3958208-3 08/08/23 10:50

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.46	3.59	92.3	95.7	70.0-130			3.69	25
Allyl chloride	3.75	3.76	3.61	100	96.3	70.0-130			4.07	25
Benzene	3.75	3.93	3.89	105	104	70.0-130			1.02	25
Benzyl Chloride	3.75	3.87	3.82	103	102	70.0-152			1.30	25

Volatile Organic Compounds (MS) by Method TO-15

L1642062-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3958208-1 08/08/23 09:24 • (LCSD) R3958208-3 08/08/23 10:50

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.95	3.90	105	104	70.0-130			1.27	25
Bromoform	3.75	3.63	3.52	96.8	93.9	70.0-130			3.08	25
Bromomethane	3.75	4.25	4.46	113	119	70.0-130			4.82	25
1,3-Butadiene	3.75	3.89	4.04	104	108	70.0-130			3.78	25
Carbon disulfide	3.75	3.67	3.74	97.9	99.7	70.0-130			1.89	25
Carbon tetrachloride	3.75	3.55	3.60	94.7	96.0	70.0-130			1.40	25
Chlorobenzene	3.75	3.73	3.73	99.5	99.5	70.0-130			0.000	25
Chloroethane	3.75	3.65	3.74	97.3	99.7	70.0-130			2.44	25
Chloroform	3.75	3.67	3.71	97.9	98.9	70.0-130			1.08	25
Chloromethane	3.75	4.28	4.38	114	117	70.0-130			2.31	25
2-Chlorotoluene	3.75	3.86	3.79	103	101	70.0-130			1.83	25
Cyclohexane	3.75	3.48	3.58	92.8	95.5	70.0-130			2.83	25
Dibromochloromethane	3.75	3.85	3.81	103	102	70.0-130			1.04	25
1,2-Dibromoethane	3.75	3.83	3.76	102	100	70.0-130			1.84	25
1,2-Dichlorobenzene	3.75	3.45	3.49	92.0	93.1	70.0-130			1.15	25
1,3-Dichlorobenzene	3.75	3.49	3.55	93.1	94.7	70.0-130			1.70	25
1,4-Dichlorobenzene	3.75	3.66	3.75	97.6	100	70.0-130			2.43	25
1,2-Dichloroethane	3.75	3.68	3.65	98.1	97.3	70.0-130			0.819	25
1,1-Dichloroethane	3.75	4.13	4.16	110	111	70.0-130			0.724	25
1,1-Dichloroethene	3.75	4.00	4.11	107	110	70.0-130			2.71	25
cis-1,2-Dichloroethene	3.75	3.82	3.83	102	102	70.0-130			0.261	25
trans-1,2-Dichloroethene	3.75	4.02	4.03	107	107	70.0-130			0.248	25
1,2-Dichloropropane	3.75	4.14	4.06	110	108	70.0-130			1.95	25
cis-1,3-Dichloropropene	3.75	4.24	4.12	113	110	70.0-130			2.87	25
trans-1,3-Dichloropropene	3.75	3.57	3.46	95.2	92.3	70.0-130			3.13	25
1,4-Dioxane	3.75	3.23	3.22	86.1	85.9	70.0-140			0.310	25
Ethanol	3.75	3.52	3.82	93.9	102	55.0-148			8.17	25
Ethylbenzene	3.75	3.41	3.35	90.9	89.3	70.0-130			1.78	25
4-Ethyltoluene	3.75	3.48	3.51	92.8	93.6	70.0-130			0.858	25
Trichlorofluoromethane	3.75	4.52	4.73	121	126	70.0-130			4.54	25
Dichlorodifluoromethane	3.75	4.27	3.95	114	105	64.0-139			7.79	25
1,1,2-Trichlorotrifluoroethane	3.75	3.94	3.00	105	80.0	70.0-130		J3	27.1	25
1,2-Dichlorotetrafluoroethane	3.75	4.07	4.09	109	109	70.0-130			0.490	25
Heptane	3.75	4.39	4.28	117	114	70.0-130			2.54	25
Hexachloro-1,3-butadiene	3.75	3.01	2.99	80.3	79.7	70.0-151			0.667	25
n-Hexane	3.75	3.70	3.75	98.7	100	70.0-130			1.34	25
Isopropylbenzene	3.75	3.28	3.20	87.5	85.3	70.0-130			2.47	25
Methylene Chloride	3.75	3.87	4.03	103	107	70.0-130			4.05	25
Methyl Butyl Ketone	3.75	3.32	3.28	88.5	87.5	70.0-149			1.21	25
2-Butanone (MEK)	3.75	3.70	3.74	98.7	99.7	70.0-130			1.08	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1642062-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3958208-1 08/08/23 09:24 • (LCSD) R3958208-3 08/08/23 10:50

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.45	3.36	92.0	89.6	70.0-139			2.64	25
Methyl methacrylate	3.75	3.67	3.60	97.9	96.0	70.0-130			1.93	25
MTBE	3.75	3.35	3.28	89.3	87.5	70.0-130			2.11	25
Naphthalene	3.75	3.10	3.11	82.7	82.9	70.0-159			0.322	25
2-Propanol	3.75	3.44	3.55	91.7	94.7	70.0-139			3.15	25
Propene	3.75	3.69	3.70	98.4	98.7	64.0-144			0.271	25
Styrene	3.75	3.67	3.65	97.9	97.3	70.0-130			0.546	25
1,1,2,2-Tetrachloroethane	3.75	4.05	4.04	108	108	70.0-130			0.247	25
Tetrachloroethylene	3.75	3.21	3.10	85.6	82.7	70.0-130			3.49	25
Tetrahydrofuran	3.75	3.74	3.67	99.7	97.9	70.0-137			1.89	25
Toluene	3.75	3.42	3.40	91.2	90.7	70.0-130			0.587	25
1,2,4-Trichlorobenzene	3.75	3.13	3.19	83.5	85.1	70.0-160			1.90	25
1,1,1-Trichloroethane	3.75	3.52	3.60	93.9	96.0	70.0-130			2.25	25
1,1,2-Trichloroethane	3.75	3.98	3.92	106	105	70.0-130			1.52	25
Trichloroethylene	3.75	3.58	3.53	95.5	94.1	70.0-130			1.41	25
1,2,4-Trimethylbenzene	3.75	3.53	3.47	94.1	92.5	70.0-130			1.71	25
1,3,5-Trimethylbenzene	3.75	3.65	3.59	97.3	95.7	70.0-130			1.66	25
2,2,4-Trimethylpentane	3.75	3.71	3.65	98.9	97.3	70.0-130			1.63	25
Vinyl chloride	3.75	4.28	4.60	114	123	70.0-130			7.21	25
Vinyl Bromide	3.75	4.37	4.48	117	119	70.0-130			2.49	25
Vinyl acetate	3.75	4.13	4.29	110	114	70.0-130			3.80	25
m&p-Xylene	7.50	6.76	6.63	90.1	88.4	70.0-130			1.94	25
o-Xylene	3.75	3.21	3.19	85.6	85.1	70.0-130			0.625	25
TPH (GC/MS) Low Fraction	188	172	173	91.5	92.0	70.0-130			0.580	25
(S) 1,4-Bromofluorobenzene				97.7	97.9	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

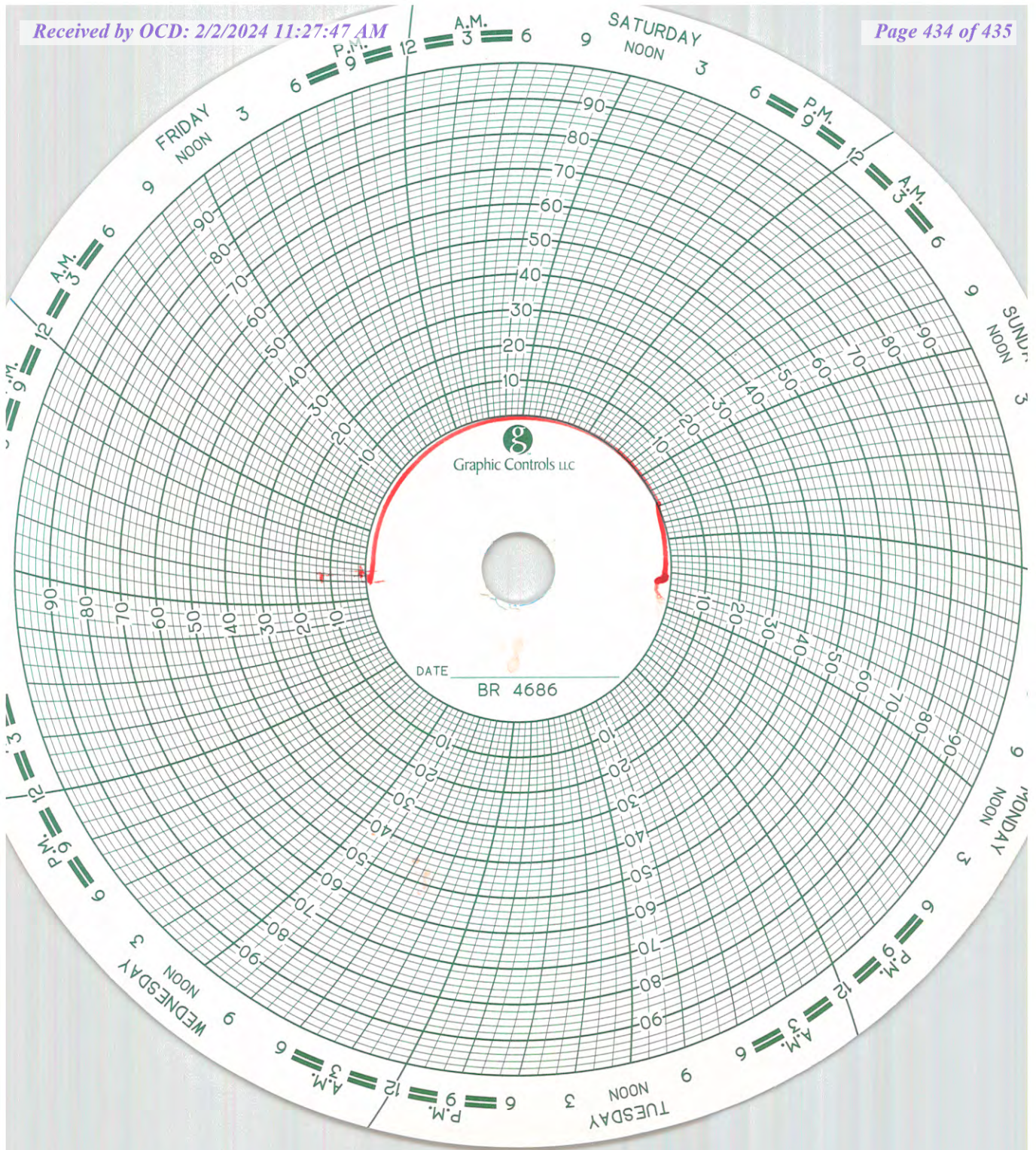
¹⁰Sc

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APPENDIX D

Levey Well Pressure Reading Documentation



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 310817

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 310817
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	GAS MITIGATION MONTHLY REPORT - JULY 2023 has been accepted for the record. Property: South Hobbs G/SA Unit Unit F, Section 5, Township 19S, Range 38E	4/17/2024