



GAS MITIGATION MONTHLY REPORT – November 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**

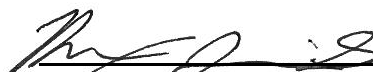
**New Mexico EMNRD OCD
Order No. R-4934-F, Case No. 14981
Incident ID No. nAPP2227033082**

February 15, 2024

Prepared for:

**Occidental Permian LTD
1600 Gehrig Dr.
Midland, Texas 79706
Attn: Ms. Melissa Gilliland**

Prepared by:


Beaux Jennings
Senior Project Manager

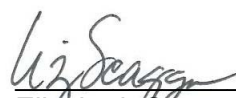

Elizabeth Scaggs, PG
Principal



Table of Contents

1.0	INTRODUCTION	1
1.1	Site Description & Background	1
1.2	Groundwater Recovery – Levey Well	4
1.3	Gas Recovery – Levey Well	4
2.0	AIR AND GROUNDWATER MONITORING	4
2.1	Air Sampling Program	4
2.2	Groundwater Sampling Program	5
3.0	DATA EVALUTATION	6
3.1	Air Samples	6
3.2	Groundwater Samples	6
4.0	RECOMMENDATIONS	7
5.0	REFERENCES	8

List of Appendices

Appendix A: Figures and Graphs

Figure 1 – Site Map

Graph – Benzene Concentration Over Time

Appendix B: Tables

Table 1 – Groundwater Analytical Summary – VOCs

Table 2 – Groundwater Analytical Summary – General Water Chemistry

Table 3 – Groundwater Analytical Summary – Additional
Parameters for Monitoring Wells

Table 4 – Air Analytical Summary – VOCs

Appendix C: Laboratory Data Sheets & Chain-of-Custody Documentation

Appendix D: Levey Well Pressure Reading Documentation



GAS MITIGATION MONTHLY REPORT – November 2023

**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 - November 2023 summarizes activities subsequent to the *Gas Mitigation Monthly Report – October 2023*, dated February 15, 2024. 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”.

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

South Hobbs G/SA Unit Operations
GAS MITIGATION MONTHLY REPORT - November 2023
February 15, 2024



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 November 27, 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.

During the November 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, Nitrite as N, and TDS. Benzene concentrations ranged from 0.0125 milligrams per liter (mg/L) to 0.0189 mg/L in monitoring well MW-2. Nitrite as N exceedances ranging from 1.06 mg/L to 1.58 mg/L observed in monitoring well MW-2. In addition, TDS concentrations ranged from 1,030 mg/L to 1,340 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.

South Hobbs G/SA Unit Operations
GAS MITIGATION MONTHLY REPORT - November 2023
February 15, 2024



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 (H_2S) has not been detected in any of the three forementioned wells since July 15, 2020. All detections of H_2S prior to July 15, 2020 were within the well bore. No H_2S 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 11/27/2023, with no pressure observed in either monitoring well. The pressure reading chart available for November 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 November 1 - 30, 2023 was approximately 621,725 gallons.

1.3 Gas Recovery – Levey Well

OXY conducted two vacuum recovery events during the month of November 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 December 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 November 6, 2023 and November 20, 2023, were taken prior to, during, and subsequent 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.

During both days of the vacuum recovery event, the vacuum was applied to the Levey Well for a duration of approximately two hours. Approximately one hour and two hours into the event, an air sample was taken. The vacuum was then turned off and an additional air sample from the Levey Well was taken one hour subsequent to 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 November 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 December 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 acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, m&p-xylene, o-xylene, and/or TPH were observed prior to the initiation of each vacuum recovery event.

Once initiated, an air sample is taken at one hour and two hours into the vacuum recovery event. During each of the vacuum recovery events, acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, m&p-xylene, o-xylene, and/or TPH concentrations significantly decrease throughout the duration of the event.

Approximately one hour after the termination of the vacuum recovery event, a final air sample is collected. Elevated concentrations of acetone, cyclohexane, ethanol, heptane, n-hexane, 2-propanol, m&p-xylene, o-xylene, and/or TPH begin to accumulate inside the Levey water well casing. These results indicate that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well.

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 acetone, cyclohexane, ethanol, 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 November 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 GQSs, with the exception of the analytes, as discussed below.

Levey Well

TDS concentrations of 1,030 mg/L to 1,340 mg/L were observed during the November 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

South Hobbs G/SA Unit Operations
GAS MITIGATION MONTHLY REPORT - November 2023
February 15, 2024



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, the July 27, 2023, which had a benzene analytical result of 0.00659 mg/L, and the August 14, 2023, which had a benzene analytical result of 0.00575 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.

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 0.0125 mg/L to 0.0189 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

In addition, several Nitrite as N exceedances ranging from 1.06 mg/L to 1.58 mg/L were observed in monitoring well 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.**

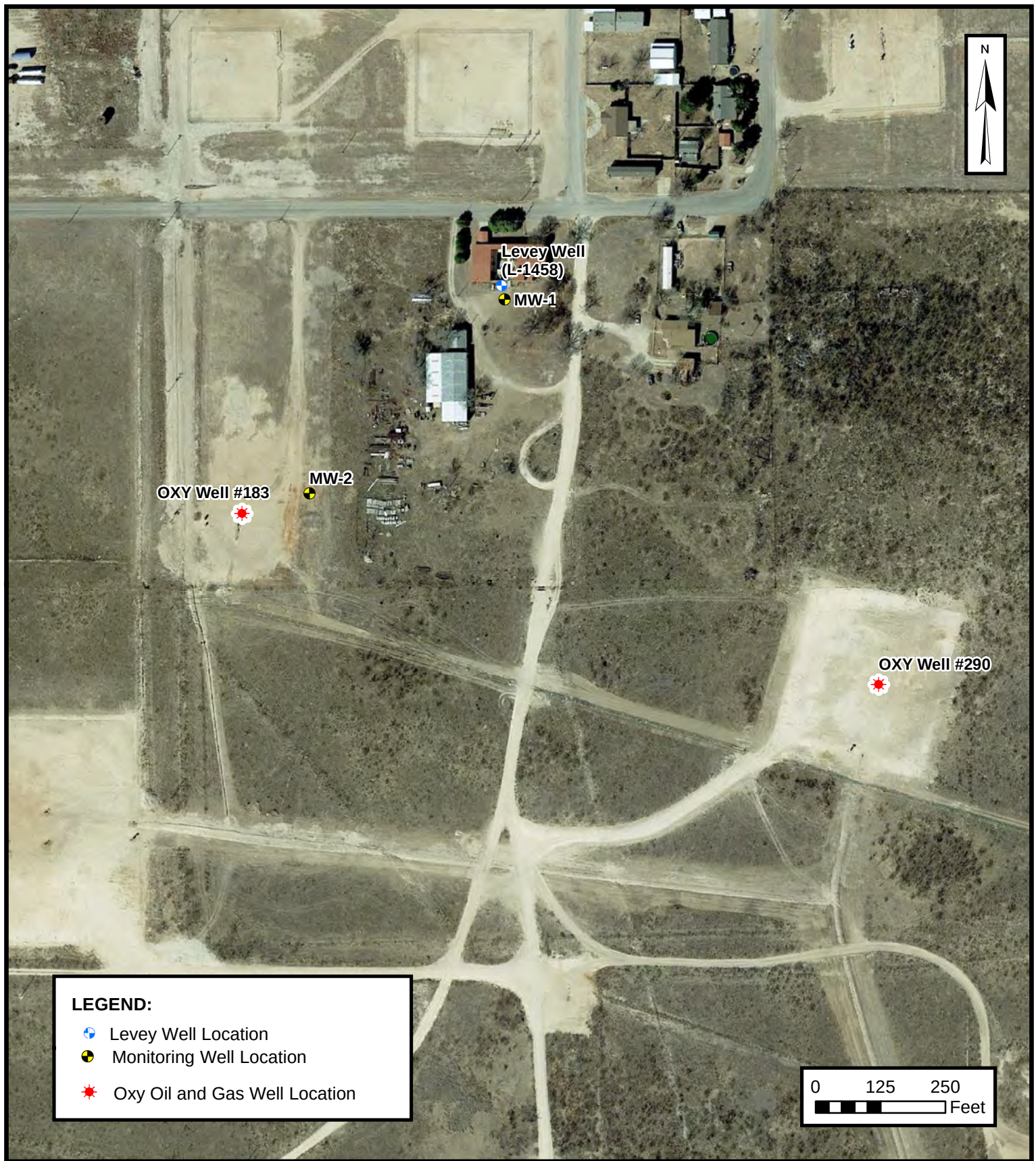
5.0 REFERENCES

- 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 ingroundwater. 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



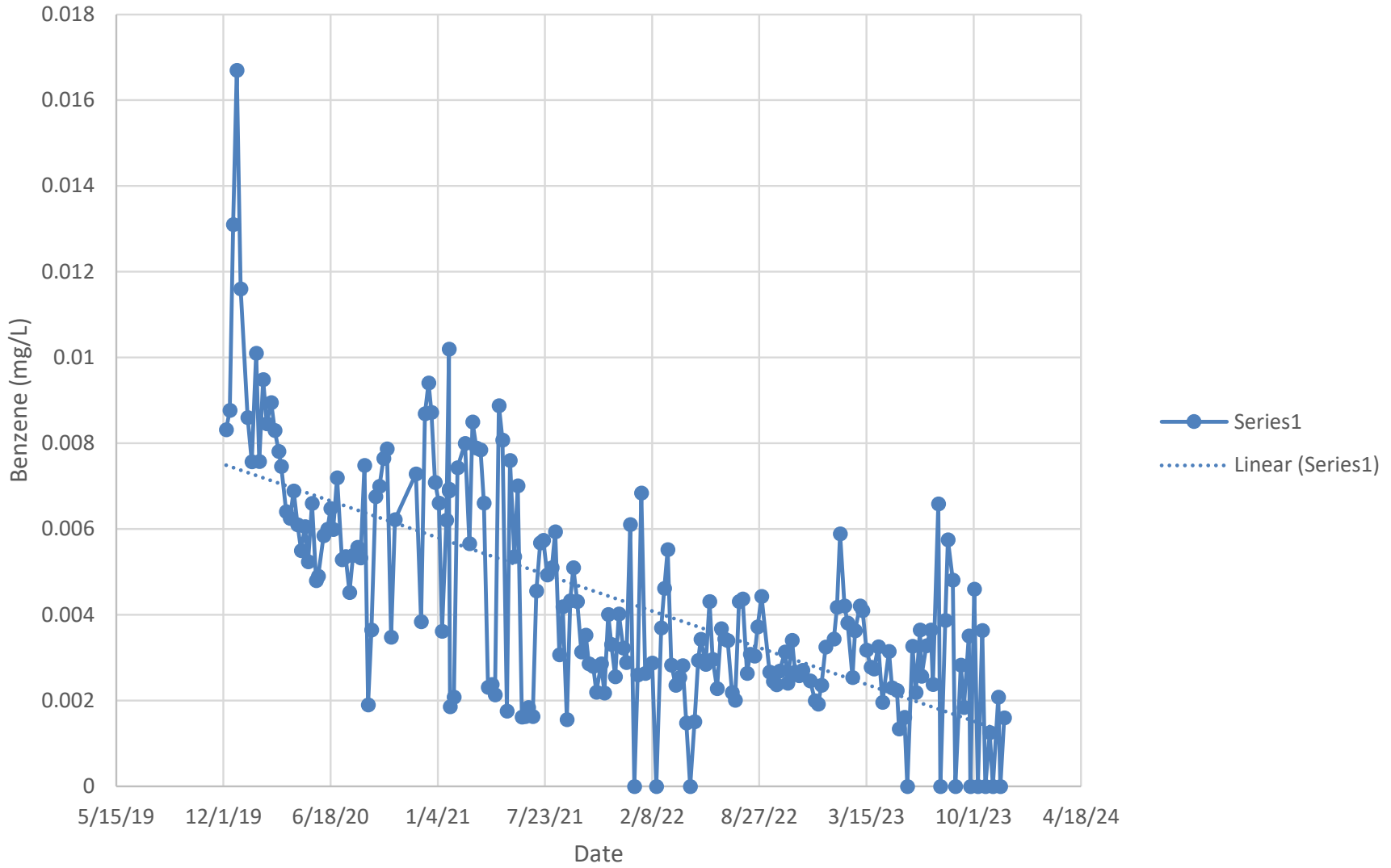
SITE MAP

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	<0.0																					

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
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.														

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 Inclement 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																					

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	1/4/2023	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	<0.00								

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	&																										

Released to Imaging: 4/22/2024 11:24:11 AM

Released to Imaging: 4/22/2024 11:24:11 AM

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	5/26/2020	0.00901	0.0299	0.0069	0.0186	0.0545	0.0731	<0.00270	<0.000286	0.000270 J	<0.000195	<0.00500	<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	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	<0.00100	<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																							

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	12/22/2021	0.0351	0.0155	0.0376	0.0216	0.282	0.315	<0.00270	<0.000286	0.00168	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00135	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0129	<0.00200	0.00448	<0.000228	<0.000623	0.0528	0.0139	
	12/29/2021	0.0257	0.0232	0.0131	0.0147	0.0738	0.0885	<0.00270	<0.000286	0.000412 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000356 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00356	<0.00200	0.000712 J	<0.000228	<0.000623	0.0148	0.00395	
	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	<0.00286	<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 Inclement 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	<0.000286	<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	<0.000286	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	<0.000286	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	<0.000286	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																							

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	<0.0000714	<0.0000513	<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	<0.0000714	<0.0000513	<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	<0.0000714	<0.0000513	<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	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<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	0.0		



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								



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	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 Incliment 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							



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
	8/9/2023	<0.0711	275	0.104 J	0.162	<0.0293	55.5	374	60.6	5.78	112	1,750	1,090	<4.00	-7.00	6.6
	8/14/2023	0.552	297	0.100 J	0.0896 J	0.130	41.8	426	74.9	7.31	137	1,810	1,110	<4.00	-0.583	6.9
	8/23/2023	0.352 J	228	0.510	0.142	4.70	47.9	232	44.6	4.00	75.4	1,160	681	<4.00	-11.1	6.5
	8/28/2023	0.380 J	226	0.548	0.0831 J	2.24	16.7	213	42.1	3.24	76.2	1,210	527	<4.00	-5.41	7.6
	9/7/2023	0.283 J	206	0.467 J	0.139	0.242	46.2	260	52.4	4.16	87.3	1,160	679	<4.00	-3.25	6.4
	9/13/2023	<0.0711	233	0.257	0.166	<0.0293	54.1	275	53.8	3.83	85.6	1,200	715	<4.00	-5.41	6.3
	9/22/2023	0.459 J	226	0.442 J	0.124	2.69	48.9	333	52.1	4.54	81.9	1,320	699	<4.00	1.81	6.2
	9/25/2023	0.435 J	228	0.497 J	0.129	1.25	47.8	195	39.9	3.27	71.7	1,030	398	<4.00	-4.03	7.1
	10/2/2023	<0.0711	223	0.651	0.0415 J	<0.0293	52.6	209	41.7	3.39	67.7	1,450	650	<4.00	-13.6	6.5
	10/9/2023	0.432 J	233	0.738	0.0930 J	0.423	45.2	224	45.4	3.61	80.5	1,160	407	<4.00	1.16	6.9
	10/17/2023	0.543	220	0.363 J	0.156	0.415	50.0	337	65.9	5.23	105	1,300	714	<4.00	5.00	6.3
	10/23/2023	0.261 J	225	0.414 J	0.0867 J	<0.0293	44.5	189	39.8	2.65	73.2	1,170	410	<4.00	-5.00	6.8
	10/31/2023	0.414 J	240	0.498 J	0.0990 J	0.601	50.4	255	47.6	3.97	89.5	1,250	534	<4.00	-0.384	6.4
	11/6/2023	0.272 J	222	0.379 J	<0.0391	<0.0293	43.3	201	40.3	3.02	71.9	1,160	408	<4.00	-2.77	6.9
	11/16/2023	0.425 J	221	0.299 J	0.142	<0.0293	50.4	223	44.0	3.83	75.9	1,340	678	<4.00	-11.3	6.3
	11/20/2023	0.826	224	0.747	0.137	0.970	43.6	194	38.8	2.80	73.4	1,030	437	<4.00	-5.89	7.1
	11/27/2023	0.569	223	0.617	0.124	0.462	49.2	283	52.9	4.51	89.0	1,300	676	<4.00	-2.72	6.3



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	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 Incliment 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.																		



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	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	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	8/9/2023	NA	103	0.353 J	0.118	<0.0293	81.3	NA					685	<4.00	NA	7.1
	8/14/2023	NA	102	0.484 J	0.0842 J	0.305	79.5	NA					632	<4.00	NA	7.7
	8/23/2023	NA	116	0.532	0.0811 J	3.69	91.0	NA					700	<4.00	NA	7.1
	8/28/2023	NA	98.7	0.472 J	0.0791 J	2.78	75.8	NA					692	<4.00	NA	8.0
	9/7/2023	NA	105	0.410 J	<0.0391	0.869	77.8	NA					659	<4.00	NA	7.0
	9/13/2023	NA	121	0.560	<0.0391	<0.0293	103	NA					694	<4.00	NA	6.8
	9/22/2023	NA	111	0.412 J	0.119	2.43	93.6	NA					760	<4.00	NA	6.9
	9/25/2023	NA	112	0.540	<0.0391	2.13	92.3	NA					733	<4.00	NA	6.8
	10/2/2023	NA	112	0.724	0.150	<0.0293	98.9	NA					727	<4.00	NA	6.8
	10/9/2023	NA	<0.250	0.551	<0.0391	<0.0293	<0.200	NA					735	<4.00	NA	6.8
	10/17/2023	NA	117	0.312 J	0.116	0.437	110	NA					782	<4.00	NA	6.8
	10/23/2023	NA	114	0.505	<0.0391	<0.0293	107	NA					821	<4.00	NA	6.6
	10/31/2023	NA	123	0.257 J	0.0807 J	0.783	107	NA					837	<4.00	NA	6.8
	11/6/2023	NA	123	<0.100	0.0630 J	0.551	89.6	NA					775	<4.00	NA	6.8
	11/16/2023	NA	119	0.211 J	0.101	<0.0293	106	NA					900	<4.00	NA	6.6
	11/20/2023	NA	123	0.406 J	0.122	1.08	105	NA					868	<4.00	NA	6.9
11/27/2023	NA	135	0.428 J	0.0887 J	0.452	124	NA					898	<4.00	NA	6.9	



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	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 Incliment 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	
8/9/2023	NA	82.0	<0.100	0.278	0.497	109	NA					1,350	<4.00	NA	6.4	
8/14/2023	NA	76.3	0.171 J	0.149	0.523	99.6	NA					1,320	<4.00	NA	6.8	
8/23/2023	NA	77.0	0.148 J	0.201	7.57	86.5	NA					1,340	<4.00	NA	6.5	
8/28/2023	NA	69.5	0.107 J	0.229	5.53	79.4	NA					1,340	<4.00	NA	7.2	



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	9/7/2023	NA	65.9	0.182 J	0.234	0.584	81.0	NA					1,250	<4.00	NA	6.3
	9/13/2023	NA	77.6	<0.100	0.276	0.0903 J	98.8	NA					1,230	<4.00	NA	6.6
	9/22/2023	NA	76.5	<0.100	0.329	4.90	85.8	NA					1,300	<4.00	NA	6.2
	9/25/2023	NA	68.2	<0.100	0.170	4.04	77.3	NA					1,230	<4.00	NA	6.3
	10/2/2023	NA	73.0	0.354 J	0.340	0.380	88.8	NA					1,290	<4.00	NA	6.2
	10/9/2023	NA	70.2	0.214 J	0.251	1.52	84.8	NA					1,260	<4.00	NA	6.2
	10/17/2023	NA	75.4	<0.100	0.297	1.17	90.3	NA					1,330	<4.00	NA	6.2
	10/23/2023	NA	90.7	<0.100	0.262	0.877	101	NA					1,300	<4.00	NA	6.1
	10/31/2023	NA	69.4	<0.100	0.171	0.856	88.5	NA					1,080	<4.00	NA	6.3
	11/6/2023	NA	74.9	<0.100	0.323	1.31	23.8	NA					1,180	<4.00	NA	6.2
	11/16/2023	NA	62.5	<0.100	0.258	0.49	80.7	NA					1,300	<4.00	NA	6.2
	11/20/2023	NA	165	<0.100	0.848	1.06	95.2	NA					1,470	<4.00	NA	6.5
11/27/2023	NA	77.6	0.213 J	0.270	1.58	88.0	NA					1,330	<4.00	NA	6.2	

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 NMAC Human 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		
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 Incliment 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		



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	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
	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	



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	5/30/2023	<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
	8/9/2023	<0.0400	109	<0.967	<0.967	<0.934	<0.967	20.8
	8/14/2023	<0.0400	25.1	<1.01	<1.01	<0.974	<1.01	18.0
	8/23/2023	<0.0400	111	<0.887	<0.887	<0.856	<0.887	18.9
	8/28/2023	<0.0400	13.7	<1.01	<1.01	<0.973	<1.01	18.6
	9/7/2023	<0.0400	132	<0.923	<0.923	<0.891	<0.923	19.3
	9/13/2023	<0.0400	220	<0.887	<0.887	<0.856	<0.887	18.5
	9/22/2023	<0.0400	191	<0.895	<0.895	<0.864	<0.95	15.9
	9/25/2023	<0.0400	232	<0.605	<0.605	<0.584	<0.605	23.4
	10/2/2023	<0.0400	230	<0.906	<0.906	<0.875	<0.906	15.0
	10/9/2023	<0.0400	233	<0.882	<0.882	<0.851	<0.882	16.3
	10/17/2023	<0.0400	248	<0.988	<0.988	<0.954	<0.988	16.7
	10/23/2023	<0.0400	413	<0.926	<0.926	<0.894	<0.926	17.5
	10/31/2023	<0.0400	265	<0.929	<0.929	<0.897	<0.929	17.6
	11/6/2023	<0.0400	245	<0.938	<0.938	<0.905	<0.938	18.3
	11/16/2023	<0.0400	8.85	<0.991	<0.991	<0.957	<0.991	17.4
	11/20/2023	<0.0400	10.8	<0.991	<0.991	<0.957	<0.991	13.3
	11/27/2023	<0.0400	226	<1.03	<1.03	<0.993	<1.03	17.1



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-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	
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 Incliment 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	



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	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
	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	



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	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
	8/9/2023	<0.0400	1,070	1.03 J	<0.985	<0.951	1.03 J	20.9
	8/14/2023	<0.0400	419	<0.971	<0.971	<0.937	<0.971	18.5
	8/23/2023	<0.0400	848	1.22 J	<0.893	<0.862	1.22 J	19.0
	8/28/2023	<0.0400	168	<1.02	<1.02	<0.983	<1.02	18.3
	9/7/2023	<0.0400	1,250	1.20 J	<0.975	<0.941	1.20 J	21.0
	9/13/2023	<0.0400	617	1.62 J	<0.898	<0.867	1.62 J	17.9
	9/22/2023	<0.0400	1,640	0.979 J	<0.938	<0.905	0.979 J	15.3
	9/25/2023	<0.0400	1,230	<0.877	<0.877	<0.846	<0.877	23.5
	10/2/2023	<0.0400	1,630	<0.898	<0.898	<0.867	<0.898	14.1
	10/9/2023	<0.0400	1,590	1.17 J	<0.885	0.854	1.17 J	14.5
	10/17/2023	<0.0400	1,670	1.48 J	<0.988	<0.954	1.48 J	15.8
	10/23/2023	<0.0400	2,070	1.19 J	<0.935	<0.902	1.19 J	17.9
	10/31/2023	<0.0400	1,080	0.957 J	<0.944	<0.911	0.957 J	18.2
	11/6/2023	<0.0400	1,490	1.28 J	<0.920	<0.888	1.28 J	18.7
	11/16/2023	<0.0400	12.7	<0.972	<0.972	<0.938	<0.972	17.6
	11/20/2023	<0.0400	11.5	2.01 J	<0.995	<0.960	2.01 J	13.2
	11/27/2023	<0.0400	1,680	1.44 J	<0.995	<0.960	1.44 J	17.6

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
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	1/25/2021	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	<1.64	<6.60	205	<1.70	<2.72	<1.18	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	<9.89	<8.18</																					



Released to Imaging: 4/22/2024 11:24:11 AM



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 Katone	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	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	<40.5	<39.6	684	<43.4	<49.1	<56.2	<49.5	263	2,520	<49.2	38.5	<256	<184	<256	<40.9	<165	6,370	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	<41,300
		1526	Vacuum Recovery Event Terminated																																			
	3/9/2022	1635	<2.97	1.30	<0.776	<0.622	1.53	<1.03	76.8	<0.810	<0.793	7.50	1.76	2.07	1.28	2.53	64.2	117	1.17	0.847	<5.11	<3.69	<5.12	<0.819	<3.30	40.3	<0.851	<1.36	<0.590	2.26	<1.09	<1.07	4.70	4.25	<0.704	3.42	1.38	2,420
		1225	2,260	<128	<268	<124	<82.6	<206	43,400	<162	<159	<471	<173	<196	<225	<198	8,470	41,200	<197	<139	<1,020	<737	<1,020	<164	<660	5,330	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	352,000
	3/14/2022	0855	<297	110	<77.6	<62.2	<41.3	<103	277,000	<81.0	<79.3	354	<86.7	<98.2	<112	<98.9	33,500	286,000	<98.3	<69.4	<511	894	<512	<81.9	<330	7,050	<85.1	<136	<59.0	254	<109	<107	<98.2	158	<70.4	<173	<86.7	1,230,000
		0856	Initiate Vacuum Recovery Event																																			
		0923	<11.9	7.60	<3.11	<2.49	<1.65	7.11	3,110	<3.24	<3.17	<9.43	15.5	26.7	<4.50	<3.96	1,440	7,690	8.01	<2.78	<20.4	38.6	<20.5	<3.28	<13.2	53.1	<3.40	<5.43	<2.36	28.8	<4.35	<4.29	24.5	57.4	<2.82	30.3	12.1	47,900
		1000	<2.97	1.91	<0.776	<0.622	1.79	<1.03	589	<0.810	<0.793	9.22	3.49	4.29	1.19	2.37	234	395	1.61	0.951	<5.11	11.9	<5.12	<0.819	<3.30	9.61	<0.851	<1.36	<0.590	8.97	<1.09	<1.07	5.79	10.7	<0.704	9.28	3.44	7,930
		1016	Vacuum Recovery Event Terminated																																			
	3/16/2022	1126	165	81.1	<3.11	5.23	<1.65	<4.12	761	<3.24	<3.17	48.8	1,130	236	<4.50	<3.96	369	494	342	<2.78	<20.4	39.5	<20.5	<3.28	<13.2	261	<3.40	<5.43	<2.36	832	<4.35	<4.29	535	237	<2.82	1,750	815	39,100
		1113	137	<12.8	<15.5	<12.4	<8.26	<20.6	641	<16.2	<15.9	<47.1	50.3	41.5	<22.5	<19.8	406	3,260	34.6	<13.9	<102	<73.7	<102	<16.4	<66.0	81.6	<17.0	57.0	<11.8	<37.7	<21.8	<21.4	147	60.9	<14.1	106	57.7	23,700
	3/24/2022	1335	<2.97	<0.639	<0.776	<0.622	<0.413	<1.03	847	<0.810	<0.793	<2.36	8.63	66.3	<1.12	<0.989	382	7,020	13.9	<0.694	<5.11	<3.69	<5.12	<0.819	9.32	135	<0.851	<1.36	<0.590	14.2	<1.09	<1.07	71.7	35.7	<0.704	26.3	13.4	51,200
	3/30/2022	0907	47.5	<0.639	<1.34	<0.622	<0.413	<1.03	143	<0.810	<0.793	43.9	3.37	<0.982	1.26	2.44	154	320	<0.983	<0.694	<5.11	14.4	<5.12	<0.819	<3.30	33.9	<0.851	3.71	<0.590	52.0	<1.09	<1.07	2.56	1.27	7.11	8.02	3.97	4,040
		0959	Initiate Vacuum Recovery Event																																			
		1021	88.9	<0.639	<1.34	<0.622	<0.413	<1.03	668	<0.810	<0.793	5.92	2.17	<0.982	<1.12	<0.989	937	4,160	1.78	<0.694	<5.11	7.93	<5.12	<0.819	<3.30	19.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	13.3	8.79	<0.704	5.33	3.29	27,600
		1101	24.5	<0.639	<1.34	<0.622	<0.413	<1.03	175	1.17	<0.793	12.3	1.19	<0.982	1.23	2.39	223	585	<0.983	<0.694	<5.11	7.73	<5.12	<0.819	<3.30	<3.07	<0.851	<1.36	<0.590	4.78	<1.09	<1.07	5.01	3.43	8.70	2.87	1.84	6,240
		1117	Vacuum Recovery Event Terminated																																			
	3/31/2022	1217	535	<0.639	<1.34	28.9	<0.413	<1.03	2,180	<0.810	<0.793	69.0	8.02	8.44	<1.12	2.30	1,980	12,400	<0.983	<0.694	<5.11	152	<5.12	<0.819	<3.30	391	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	11.8	9.52	<0.704	13.2	6.89	67,700
		1241	128	4.44	<1.34	3.21	<0.413	<1.03	420	<0.810	<0.793	31.7	2.90	5.20	1.26	<0.989	383	1,850	3.07	<0.694	<5.11	17.8	<5.12	<0.819	<3.30	85.5	<0.851	<1.36	<0.590	14.7	<1.09	<1.07	16.5	9.82	<0.704	8.32	3.75	12,900
	4/6/2022	1157	<1,490	<319	<388	<311	<207	<515	32,400	<405	<396	1,290	<434	<491	<562	<495	37,200	370,000	<492	<347	<2,560	<1,840	<2,560	11,300	<1,650	12,100	<425	<679	<295	<942	<544	<536	<491	<491	<352	<867	<434	1,430,000
	4/11/2022	0924	<238	<51.1	<62.1	<49.8	<33.0	<82.5	39,600	<64.8	<63.4	1,510	<69.4	<78.5	<89.9	<79.1	37,400	483,000	<78.7	<55.6	<409	<295	<409	<65.5	<264	6,860	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	1,460,000
		0925	Initiate Vacuum Recovery Event																																			
		0949	52.3	<0.639	<0.776	1.09	<0.413	<1.03	3,190	<0.810	<0.793	7.99	2.12	<0.982	1.16	1.41	6,220	2,430	1.10	<0.694	<5.11	37.7	<5.12	<0.819	<3.30	27.5	<0.851	<1.36	<0.590	5.61	<1.09	<1.07	5.64	6.43	<0.704	4.47	2.90	140,000
		1030	41.1	<0.639	<0.776	<0.622	<0.413	<1.03	188	<0.810	<0.793	23.9	1.35	<0.982	1.40	1.73	366	1,280	<0.983	<0.694	<5.11	14.3	<5.12	<0.819	<3.30	24.5	<0.851	<1.36	<0.590	16.5	<1.09	<1.07	3.30	3.64	<0.704	3.52	1.94	9,010
		1045	Vacuum Recovery Event Terminated																																			
	4/20/2022	1155	183	<0.639	2.01	7.03	<0.413	<1.03	706	<0.810	<0.793	14.6	1.48	<0.982	1.24	1.46	928	10,500	1.03	<0.694	<5.11	42.5	5.32	<0.819	<3.30	139	<0.851	<1.36	<0.590	18.7	<1.09	<1.07	5.10	3.73	<0.704	4.51	1.99	31,300
		1157	<238	<51.1	<62.1	<49.8	<33.0	<82.5	16,000	<64.8	<63.4	956	<69.4	<78.5	<89.9	<79.1	27,000	144,000	<78.7	<55.6	<409	<295	<409	2,400	<264	5,850	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	93.3	<56.3	<139	<69.4
	4/25/2022	0805	<1,190	<256	<311	<249	<165	<412	465,000	<324	<317	3,680	<347	<393	<450	<396	638,000	5,390,000	<393	<278	<2,040	12,300	<2,050	<328	<1,320	23,300	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	7,720,000
		0810	Initiate Vacuum Recovery Event																																			
		0833	179	<12.8	<15.5	<12.4	<8.26	<20.6	2,680	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	6,180	15,800	<19.7	<13.9	<102	161	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	23.9	<14.1	<34.7	<17.3	138,000
		0912	32.6	<1.28	<1.55	<1.24	<0.826	<2.06	413	<1.62	<1.59	8.48	2.79	<1.96	<2.25	2.54	1,470	3,400	<1.97	<1.39	<10.2	31.6	<10.2	<1.64	<6.60	11.5	<1.70	<2.72	<1.18	<3.77	<2.18	<2.14	12.2	23.1	<1.41	5.38	4.38	22,600
		0928	Vacuum Recovery Event Terminated																																			
	4/28/2022	1033	<1,190	1,660	<311	<249	<165	<412	23,800	<324	<317	2,960	4,860	3,510	<450	<396	42,900	103,000	860	<278	<2,040	<1,470	<2,050	<328	<1,320	16,300	<340	<543	<236	14,500	<435	<429	2,730	1,110	<282	7,370	2,750	1,060,000
		1152	544	<0.639	<0.776	<0.622	<0.413	<1.03	112	<0.810	<0.793	100	23.5	<0.982	<1.12	<0.989	148	1,100	7.57	<0.694	<5.11	25.7	8.31	<0.819	<3.30	106	<0.851	<										



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	5/26/2022	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																																			
		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
	6/9/2022	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																																			
		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
	6/23/2022	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	<1,090	<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	<429	<393	667	<282	<694	<347	46,700,000
		1224	Initiate Vacuum Recovery Event																																			
		1355	356	693	<15.5	14.8	<8.26	<20.6	4,370	<16.2	<15.9	<47.1	806	135	<22.5	<19.8	3,930	24,000	52.1	<13.9	<102	363	<102	<16.4	<66.0	131	<17.0	<27.2	<11.8	2,230	<21.8	<21.4	153	161	<14.1	494	170	258,000
		1435	Vacuum Recovery Event Terminated																																			
		1625	342	<12.8	<15.5	15.1	<8.26	<20.6	2,520	<16.2	<15.9	<47.1	35.8	27.3	<22.5	<19.8	4,620	18,600	<19.7	<13.9	<102	229	<102	<16.4	<66.0	418	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	52.0	57.9	<14.1	<34.7	19.0	131,000
		7/20/2022	1335	13,600	<1,280	<1,550	<1,240	<826	<2,060	82,700	<1,620	<1,590	4,750	<1,730	<1,960	<2,250	<1,980	107,000	610,000	<1,970	<1,390	<10,200	<7,370	<10,200	<1,640	<6,600	43,500	<1,700	3,900	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	<1,410	<3,470	<1,730
	7/27/2022	1238	<297	<63.9	<77.6	<62.2	<41.3	<103	6,370	<81.0	<79.3	245	<86.7	<98.2	<112	<98.9	11,800	1,610,000	<98.3	<69.4	<511	422	<512	<81.9	<330	2,930	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	339,000
	8/1/2022	1113	13,100	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	3,510	<86.7	241.0	<112	<98.9	299,000	1,910,000	<98.3	<69.4	<511	9,580	<512	<81.9	<330	52,100	<85.1	1,470	<59.0	<188	<109	361	350	530	<70.4	<173	186	<8,260,000
		1115	Initiate Vacuum Recovery Event																																			
		1220	67.5	<0.639	<0.776	2.36	1.63	<1.03	<0.689	<0.810	<0.793	97.7	3.77	2.36	<1.12	1.95	321	892	<0.983	16.9	<5.11	27.9	12.0	<0.819	<3.30	58.0	<0.851	<1.36	<0.590	40.7	<1.09	<1.07	4.31	5.45	<0.704	9.67	5.07	9,210
		1328	525	<0.639	0.877	10.1	3.51	<1.03	<0.689	<0.810	<0.793	37.0	3.20	4.29	<1.12	1.97	265	1,210	1.41	<0.694	164	548	84.7	<0.819	<3.30	237	<0.851	<1.36	<0.590	3.56	<1.09	<1.07	8.44	8.64	<0.704	5.16	2.92	12,200
		1330	Vacuum Recovery Event Terminated																																			
1435		5,110	<12.8	<15.5	140	36.4	<20.6	<13.8	<16.2	<15.9	215	<17.3	105	<22.5	<19.8	15,000	39,100	<19.7	<13.9	1,020	3,800	540	<16.4	<66.0	2,530	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	163	227	<14.1	53.8	55.9	<330,000	
8/4/2022	1358	<238	<51.1	<62.1	229	<33.0	<82.5	49,600	<123	<63.4	1,680	<69.4	112	<89.9	<112	101,000	568,000	<78.7	135	<409	<7,370	<409	<65.5	<264	17,600	<68.1	<109	<47.2	<151	<87.0	<85.7	126	251	<56.3	<139	108	3,060,000	
8/10/2022	1353	<238	<51.1	<62.1	58.5	<33.0	<82.5	65,100	<64.8	69.4	1,150	<69.4	<78.5	<89.9	<79.1	121,000	1,200,000	<78.7	60.1	<409	2,920	<409	<65.5	<264	17,300	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	1,660,000	
8/15/2022	0953	<594	<128	<155	280	<82.6	<206	544,000	<162	<159	3,150	<173	<196	<225	<198	924,000	6,870,000	<197	<139	<1,020	<737	<1,020	<1,430	<660	<615	<170	<272	<118	<377	<218	<214	<196	281	<141	<347	<173	22,100,000	
	1150	Initiate Vacuum Recovery Event																																				
	1258	416	<0.639	<0.776	2.04	<0.413	<1.03	1,750	<0.810	<0.793	31.1	<0.867	<0.982	<1.12	1.52	3,170	10,500	<0.983	<0.694	<5.11	181	<5.12	<0.819	<3.30	42.3	<0.851												



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	1/9/2023	1110	<2,970	<63.9	<776	<622	<413	<103	82,700	<81.1	<793	9,820	<86.7	<98.2	<1,120	<989	106,000	1,320,000	<98.3	<694	<511	<3,690	<512	<81.9	<330	53,800	<85.1	<136	<590	<188	<1,090	<107	<98.2	101	<704	<173	<86.7	1,720,000
		1400	Initiate Vacuum Recovery Event																																			
		1507	<297	<63.9	<77.6	<62.2	<41.3	<103	263	<81.0	<79.3	2,470	<86.7	<98.2	<112	<98.9	638	2,530	<98.3	77.8	<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	<82,600
		1608	<297	<63.9	<77.6	<62.2	<41.3	<103	174	<81.0	<79.3	2,620	<86.7	<98.2	<112	<98.9	353	2,670	<98.3	74.7	<511	<369	<512	<81.9	<330	7,940	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1608	Vacuum Recovery Event Terminated																																			
		1706	<297	<63.9	<77.6	<62.2	64.6	<103	2,040	<81.0	<79.3	2,750	<86.7	<98.2	<112	<98.9	3,750	16,000	<98.3	79.2	<511	<369	<512	<81.9	<330	6,830	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	135,000
	1/13/2023	1217	9,510	<63.9	<77.6	95.6	<41.3	<103	43,400	<81.0	<79.3	4,880	<86.7	<98.2	<112	<98.9	<81.8	241,000	<98.3	<69.4	<511	3,270	<512	<81.9	<330	13,300	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	1,510,000
	1/19/2023	1154	35,200	492	<77.6	321	<41.3	<103	630,000	<81.0	<79.3	6,670	120	<98.2	<112	<98.9	72,400	705,000	<98.3	1,790	<511	2,840	<512	<81.9	<330	11,800	<85.1	162	<59.0	1,210	<109	<107	<98.2	<98.2	<70.4	252	<86.7	5,450,000
	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
	3/3/2023	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	&						



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	4/5/2023	1015	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	12,100	<16.2	<15.9	<47.1	60.7	<19.6	<22.5	<19.8	5,770	141,000	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	92.3	<21.8	<21.4	<19.6	<19.6	<14.1	49.4	24.0	145,000
		1016	Initiate Vacuum Recovery Event																																			
		1128	<59.4	42.8	<15.5	<12.4	<8.26	<20.6	651	<16.2	<15.9	273	20.2	<19.6	<22.5	<19.8	753	3,520	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	165	<21.8	<21.4	<19.6	<19.6	<14.1	46.0	<17.3	<16,500
		1237	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	217	<16.2	<15.9	128	<17.3	<19.6	<22.5	<19.8	229	1,490	<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
		1237	Vacuum Recovery Event Terminated																																			
	4/14/2023	1339	<59.4	14.1	<15.5	82.5	<8.26	<20.6	2,550	<16.2	<15.9	180	52.5	<19.6	<22.5	<19.8	1,630	23,600	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	88.5	<21.8	<21.4	<19.6	<19.6	<14.1	52.5	25.8	37,300
		1457	2,160	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	1,470	2,690	2,570	<112	<98.9	16,000	323,000	698	<69.4	<511	<369	<512	<81.9	<330	5,330	<85.1	<136	<59.0	1,020	<109	<107	1,450	702	<70.4	4,420	2,210	991,000
	4/16/2023	1005	<5,940	<63.9	<1,550	<1,240	<826	<103	<1,380	<81.0	<1,590	<9,430	1,300	<98.2	<2,250	<1,980	<81.8	1,000,000	294	<1,390	<511	<7,370	<512	<81.9	<330	9,760	<85.1	<136	<1,180	<188	<2,180	<107	667	316	<1,410	2,100	1,000	2,610,000
		1006	Initiate Vacuum Recovery Event																																			
		1235	12,000	<12.8	<15.5	59.4	<8.26	<20.6	<13.8	<16.2	<15.9	<47.1	192	<19.6	<22.5	<19.8	2,800	8,810	41.7	<13.9	<102	79.3	<102	<16.4	<66.0	228	<17.0	<27.2	<11.8	565	<21.8	<21.4	167	94.7	<14.1	668	205	85,500
		1339	8,700	<0.639	<0.776	8.25	<0.413	<1.03	<0.689	<0.810	<0.793	32.6	60.3	<0.982	1.24	2.54	384	1,980	13.8	<0.694	<5.11	54.6	<5.12	<0.819	<3.30	175	<0.851	<1.36	<0.590	105	<1.09	<1.07	48.1	24.0	<0.704	129	51.6	17,800
		1339	Vacuum Recovery Event Terminated																																			
	4/26/2023	1438	5,820	<12.8	<15.5	124	<8.26	<20.6	6,230	<16.2	<15.9	<47.1	331	<19.6	<22.5	<19.8	1,910	1,730,000	73.7	<13.9	<102	<73.7	<102	<16.4	<66.0	337	<17.0	<27.2	<11.8	270	<21.8	<21.4	199	94.7	<14.1	581	264	196,000
		1540	<2,970	<639	<776	<622	<413	<20.6	<689	<810	<793	<4,710	1,080	869	<1,120	<989	77,300	807,000	276	<69.4	<5,110	<3,690	<5,120	<819	<66.0	4,420	<17.0	<1,360	<590	<1,880	<1,090	<1,070	316	229	<704	2,480	1,360	1,790,000
	5/1/2023	0938	58,000	<63.9	<77.6	<62.2	<41.3	<103	123,000	<81.0	<79.3	99,000	12,700	<0.982	<112	<98.9	96,500	1,700,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	413,000	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	41,500	<8,670	<8,260,000
		0939	Initiate Vacuum Recovery Event																																			
		1046	601	<63.9	<77.6	<62.2	<41.3	<103	314	<81.0	<79.3	2,790	<86.7	<98.2	<112	<98.9	398	11,400	<98.3	137	<511	<369	<512	<81.9	<330	4,570	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1154	6,180	166	<77.6	<62.2	143	<103	<68.9	417	<79.3	6,000	132	613	123	197	310	5,390	<98.3	597	<511	1,090	<512	<81.9	<330	868	215	<136	<59.0	3,770	<109	<107	883	265	<70.4	407	147	<82,600
		1154	Vacuum Recovery Event Terminated																																			
	5/2/2023	1300	1,050	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	4,860	<86.7	<98.2	<112	<98.9	1,440	11,300	<98.3	234	<511	<369	<512	<81.9	<330	4,420	<85.1	<136	<59.0	242	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
	5/11/2023	1312	2,260	<63.9	<77.6	<62.2	<41.3	<103	86,800	<81.0	<79.3	4,260	276	342	<112	<98.9	70,300	575,000	<98.3	<69.4	<511	433	<512	<81.9	<330	4,940	<85.1	<136	<59.0	348	<109	<107	200	104	<70.4	650	349	1,880,000
	5/11/2023	1330	4,660	<63.9	<77.6	160	<63.9	<77.6	55,100	<81.0	<79.3	2,450	681	122	<112	<98.9	37,100	698,000	147	<69.4	<511	1,160	<512	<81.9	<330	9,370	<85.1	<136	<59.0	471	<109	<107	238	159	<70.4	1,300	681	1,830,000
	5/25/2023	1156	4,130	<63.9	<77.6	270	<41.3	<103	82,000	<81.0	<79.3	4,660	285	<98.2	<112	<98.9	84,700	892,000	<98.3	<69.4	<511	1,290	<512	<81.9	<330	7,790	<85.1	<136	<59.0	429	<109	<107	99.6	<98.2	<70.4	542	276	1,830,000
	5/30/202	1023	364,000	<63.9	<77.6	32,700	<41.3	<103	180,000	<81.0	<79.3	<47,100	646	359	<112	<98.9	198,000	2,210,000	159	<69.4	<511	171,000	<512	<81.9	<330	216,000	<85.1	153	<59.0	501	15,200	<107	584	334	<70.4	1,170	711	<82,600
		1024	Initiate Vacuum Recovery Event																																			
		1143	<297	<63.9	<77.6	<62.2	<41.3	<103	906	<81.0	<79.3	7,500	<86.7	<98.2	<112	<98.9	973	9,550	<98.3	358	<511	<369	<512	111	<330	7,690	86.3	186	<59.0	456	<109	<107	<98.2	<98.2	<70.4	183	<86.7	<82,600
		1300	<297	<63.9	<77.6	<62.2	<41.3	<103	647	<81.0	<79.3	7,350	<86.7	<98.2	<112	<98.9	658	8,320	<98.3	323	<511	<369	<512	<81.9	<330	12,300	86.3	358	<59.0	448	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600
		1300	Vacuum Recovery Event Terminated																																			
	6/9/2023	1357	<297	<63.9	<77.6	180	<41.3	<103	2,140	<81.0	<79.3	7,220	<86.7	<98.2	<112	<98.9	2,510	19,200	<98.3	304	<511	<369	<512	318	<330	9,140	102	472	<59.0	493	<109	<107	<98.2	<98.2	<70.4	208	104	105,000
	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								



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 Katone	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	8/28/2023	0917	<2.97	0.795	<0.776	<0.622	<0.413	<1.03	19.0	<0.810	<0.793	1,270	<0.867	<0.982	<1.12	1.73	10.4	49.7	<0.983	<0.694	<5.11	4.60	<5.12	<0.819	<3.30	89.0	<0.851	<1.36	<0.590	9.30	<1.09	<1.07	<0.982	<0.982	<0.704	<1.73	<0.867	<826
		0918	Initiate Vacuum Recovery Event																																			
		1018	361	1.73	<0.776	2.62	2.77	<1.03	135	<0.810	<0.793	16.3	2.43	<0.982	2.21	<0.989	37.2	125	<0.983	<0.694	<5.11	31.8	<5.12	<0.819	<3.30	8.53	<0.851	<1.36	<0.590	5.61	<1.09	<1.07	<0.982	1.12	<0.704	3.74	2.32	3,150
		1130	404	62.0	<0.776	12.3	3.08	<1.03	126	<0.810	<0.793	67.1	25.7	1.08	1.63	1.67	144	169	1.65	<0.694	<5.11	71.4	<5.12	<0.819	<3.30	18.3	<0.851	<1.36	2.16	86.6	<1.09	<1.07	2.74	1.28	<0.704	14.3	6.07	2,710
		1130	Vacuum Recovery Event Terminated																																			
	9/11/2023	1230	855	7.79	<0.776	50.4	2.97	<1.03	185	<0.810	<0.793	80.5	7.93	<0.982	<1.12	1.74	70.8	245	<0.983	<0.694	<5.11	91.1	<5.12	<0.819	<3.30	34.7	<0.851	<1.36	<0.590	16.6	<1.09	<1.07	2.31	1.07	<0.704	5.81	3.10	3,440
		0909	2,160	<63.9	<77.6	290	<41.3	<103	61,300	<81.0	<79.3	1,610	162	250	<112	<98.9	<81.8	149,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	654	<85.1	<136	<59.0	<188	<109	<107	204	149	<70.4	646	180	711,000
		0910	Initiate Vacuum Recovery Event																																			
		1259	632	<63.9	<77.6	<62.2	<41.3	<103	1,260	<81.0	<79.3	1,600	<86.7	137	<112	<98.9	<81.8	2,400	<98.3	<69.4	<511	<369	<512	<81.9	<330	551	<85.1	<136	<59.0	<188	<109	<107	118	<98.2	<70.4	285	<86.7	<82,600
		1357	39.9	0.824	<0.776	4.92	2.25	<1.03	86.4	<0.810	<0.793	80.5	0.893	<0.982	1.49	1.71	<0.818	74.0	<0.983	3.99	<5.11	5.16	<5.12	<0.819	<3.30	18.0	<0.851	2.82	<0.590	4.52	<1.09	<1.07	1.84	1.22	<0.704	2.63	1.41	1,950
	1357	Vacuum Recovery Event Terminated																																				
	1457	49.9	<0.639	<0.776	14.9	2.52	<1.03	210	<0.810	<0.793	50.7	1.57	<0.982	1.33	1.70	39.4	210	<0.983	<0.694	<5.11	10.0	<5.12	<0.819	<3.30	24.5	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.2	6.09	<0.704	5.07	3.81	4,500	
	9/25/2023	0940	2,520	<63.9	<77.6	542	<41.3	<103	99,220	<81.0	<79.3	2,900	<86.7	<98.2	<112	<98.9	<81.8	215,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	2,480	<85.1	<136	<59.0	<188	<109	<107	136	103	<70.4	314	211	1,900,000
		0941	Initiate Vacuum Recovery Event																																			
		1057	1,340	<63.9	<77.6	<62.2	<41.3	<103	2,020	<81.0	<79.3	3,040	93.6	<98.2	<112	<98.9	1,470	2,780	<98.3	165	<511	<369	<512	<81.9	<330	2,080	<85.1	187	<59.0	576	<109	<107	<98.2	<98.2	<70.4	397	122	<82,600
		1206	1,240	<63.9	<77.6	<62.2	<41.3	<103	358	<81.0	<79.3	3,580	<86.7	<98.2	<112	<98.9	298	483	<98.3	176	<511	<369	<512	<81.9	<330	2,170	<85.1	181	<59.0	295	<109	<107	<98.2	<98.2	<70.4	249	93.6	<82,600
		1206	Vacuum Recovery Event Terminated																																			
	1307	1,490	<63.9	<77.6	<62.2	<41.3	<103	1,070	<81.0	<79.3	2,790	<86.7	<98.2	<112	<98.9	<81.8	1,500	<98.3	174	<511	<369	<512	1,760	<330	1,600	<85.1	171	<59.0	196	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600	
	10/2/2023	1220	<297	<63.9	<77.6	<62.2	<41.3	<103	105,000	<81.0	<79.3	2,580	114	<98.2	<112	<98.9	11,100	111,000	<98.3	246	<511	<369	<512	<81.9	<330	<307	<85.1	405	<59.0	266	<109	605	123	118	<70.4	516	422	1,010,000
	10/9/2023	0800	<29,700	<6,390	<7,760	17,900	<4,130	<10,300	110,000	<8,100	<7,930	294,000	<8,670	<9,820	<11,200	<9,890	36,900	1,330,000	<9,830	20,500	<51,100	<36,900	<51,200	55,700	<33,000	1,090,000	<8,510	58,600	<5,900	48,600	<10,900	<10,700	<9,820	<9,820	<7,040	17,400	<8,670	<8,260,000
		0801	Initiate Vacuum Recovery Event																																			
		0912	3,490	351	<77.6	454	<41.3	<103	2,260	<81.0	464	7,450	316	246	<112	<98.9	3,650	13,600	<98.3	420	<511	<369	<512	280	<330	23,500	271	1,850	<59.0	2,590	<109	8,410	270	<98.2	<70.4	1,150	334	101,000
		1100	3,640	168	<77.6	473	<41.3	<103	2,790	<81.0	82.0	6,070	359	287	<112	<98.9	<81.8	16,000	<98.3	<69.4	<511	<369	<512	659	<330	5,600	<85.1	322	<59.0	1,930	<109	638	269	<98.2	<222	1,450	438	128,000
		1100	Vacuum Recovery Event Terminated																																			
	1119	2,070	99.7	<77.6	181	<41.3	<103	1,990	<81.0	154	2,150	218	213	<112	<98.9	2,120	11,000	<98.3	177	<511	<369	<512	<81.9	<330	3,070	<85.1	441	<59.0	1,050	<109	2,230	217	<98.2	<222	971	313	<82,600	
	10/17/2023	1207	2,990	351	<77.6	<62.2	126	<103	194	<81.0	<79.3	60,300	633	201	121	221	548	3,470	<98.3	11,600	<511	<369	<512	<81.9	<330	4,890	<85.1	1,860	<59.0	2,830	<109	<107	834	220	<222	2,050	863	<82,600
	10/23/2023	1013	1,630	<63.9	<77.6	78.7	<41.3	<103	33,400	<81.0	<79.3	2,190	<86.7	<98.2	<112	<98.9	18,800	2,530,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	8,780	<85.1	<136	<59.0	471	<109	<107	127	<98.2	<222	225	<86.7	888,000
		1014	Initiate Vacuum Recovery Event																																			
		1200	1,140	<63.9	<77.6	<62.2	<41.3	<103	1,670	<81.0	<79.3	3,090	<86.7	100	<112	<98.9	1,270	16,700	<98.3	210	<511	<369	<512	<81.9	<330	2,560	<85.1	<136	<59.0	414	<109	<107	123	<98.2	<222	232	<86.7	<82,600
		1358	1,150	<63.9	<77.6	<62.2	<41.3	<103	1,240	<81.0	<79.3	2,980	166	279	<112	<98.9	916	11,900	<98.3	180	<511	<369	<512	<81.9	<330	2,440	<85.1	<136	<59.0	486	<109	<107	230	<98.2	<222	486	154	<82,600
1358		Vacuum Recovery Event Terminated																																				
1445	1,400	<63.9	<77.6	<62.2	<41.3	<103	5,510	<81.0	<79.3	3,450	219	525	<112	<98.9	<81.8	63,800	<98.3	<69.4	<511	<369	<512	<81.9	<330	2,830	<85.1	<136	<59.0	527	<109	<107	460	178	<222	681	227	205,000		
10/31/2023	1107	2,970	<63.9	<77.6	99.6	<41.3	<103	20,300	125	<79.3	2,900	<86.7	<98.2	<112	<98.9	13,700	292,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	7,350	103	332	<59.0	213	<109	<107	202	<98.2	<222	313	105	406,000	
11/6/2023	0917	1,790	<63.9	<77.6	76.1	<41.3	<103	14,800	<81.0	<79.3	1,400	<86.7	<98.2	<112	<98.9	14,400	133,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	1,380	<85.1	185	<59.0	<188	<109	<107	<98.2	<98.2	<222	216	<86.7	446,000	
	0918	Initiate Vacuum Recovery Event																																				
	1103	54.4	<63.9	<77.6	22.4	<41.3	<103	713	<81.0	<79.3	82.8	87.6	28.0	<112	2.61	1,120	3,450	<98.3	<69.4	<511	12.8	<512	<81.9	<330	25.8	<85.1	<136	<59.0	304	<109	<107	18.6	12.7	<222	163	53.3	24,700	
	1219	43.2	<63.9	<77.6	7.07	<41.3	<103	329	<81.0	<79.3	84.7	2.35	3.86	<112	1.99	348	1,630	<98.3	<69.4	<511	11.5	<512	<81.9	<330	19.2	<85.1	<136	<59.0	<1.88	<109	<107	2.89	2.17	<222	5.94	3.13	13,500	
	1219	Vacuum Recovery Event Terminated																																				
1317	46.3	<63.9	<77.6	6.04	<41.3	<103	289	<81.0	<79.3	70.5	17.0	11.3	1.30	1.80	395	2,520	3.3	<69.4	<511	10.3	<512	<81.9	<330	31.7	<85.1	<136	<59.0	43.3	<109	<107	8.88	6.38	<222	39.5	14.40	13,100		
11/16/2023	1055	5,010	<63.9	<77.6	<62.2	<41.3	<103	84,000	<81.0	<79.3	2,810	<86.7	<98.2	<112	<98.9	58,900	1,220,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	9,590	<85.1	<136	<59.0	199	<109	<107	<98.2	<98.2	<222	<173	<86.7	<8,260,000	
11/20/2023	0944	3,520	<63.9	<77.6	198	<41.3	<103	<68.9	<81.0	<79.3	1,370	<86.7	<98.2	<112	<98.9	35,500	1,280,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	5,140	<85.1	<136	<59.0	422	<101								



APPENDIX C

Laboratory Data Sheets and Chain-of-Custody Documentation



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/13/2023 12:38:46 PM

JOB DESCRIPTION

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

JOB NUMBER

880-35394-1

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
11/13/2023 12:38:46 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: 880-35394-1
SDG: Hobbs NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	19
Lab Chronicle	21
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	26

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

Definitions/Glossary

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

Job ID: 880-35394-1
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
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.
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-35394-1
SDG: Hobbs NM

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

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: 880-35394-1
SDG: Hobbs NM

Job ID: 880-35394-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-35394-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 11/6/2023 4:23 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 12.6°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-130187 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-130095 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-130096 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFMS: The following sample was received outside of holding time: Levey Well (880-35394-1).

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 860-130245 and analytical batch 860-130483 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 200.7: The following sample was diluted to bring the concentration of target analytes within the calibration range: Levey Well (880-35394-1). Elevated reporting limits (RLs) are provided.

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

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: 880-35394-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-35394-1

Date Collected: 11/06/23 13:20

Matrix: Water

Date Received: 11/06/23 16:23

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		11/09/23 09:41	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		11/09/23 09:41	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		11/09/23 09:41	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		11/09/23 09:41	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		11/09/23 09:41	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		11/09/23 09:41	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		11/09/23 09:41	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		11/09/23 09:41	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		11/09/23 09:41	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		11/09/23 09:41	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		11/09/23 09:41	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		11/09/23 09:41	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		11/09/23 09:41	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		11/09/23 09:41	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		11/09/23 09:41	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		11/09/23 09:41	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		11/09/23 09:41	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		11/09/23 09:41	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		11/09/23 09:41	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		11/09/23 09:41	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		11/09/23 09:41	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		11/09/23 09:41	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		11/09/23 09:41	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		11/09/23 09:41	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		11/09/23 09:41	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		11/09/23 09:41	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		11/09/23 09:41	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		11/09/23 09:41	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		11/09/23 09:41	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		11/09/23 09:41	1
Ethylbenzene	0.000493	J	0.00100	0.000385	mg/L		11/09/23 09:41	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		11/09/23 09:41	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		11/09/23 09:41	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		11/09/23 09:41	1
m,p-Xylenes	0.00199	J	0.0100	0.00124	mg/L		11/09/23 09:41	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		11/09/23 09:41	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		11/09/23 09:41	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		11/09/23 09:41	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		11/09/23 09:41	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		11/09/23 09:41	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		11/09/23 09:41	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		11/09/23 09:41	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		11/09/23 09:41	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		11/09/23 09:41	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		11/09/23 09:41	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		11/09/23 09:41	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		11/09/23 09:41	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		11/09/23 09:41	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/09/23 09:41	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 11/06/23 13:20
Date Received: 11/06/23 16:23

Lab Sample ID: 880-35394-1
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			11/09/23 09:41	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			11/09/23 09:41	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			11/09/23 09:41	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			11/09/23 09:41	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			11/09/23 09:41	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			11/09/23 09:41	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			11/09/23 09:41	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			11/09/23 09:41	1
1,2,4-Trimethylbenzene	0.00122		0.00100	0.000417	mg/L			11/09/23 09:41	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			11/09/23 09:41	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			11/09/23 09:41	1
Xylenes, Total	0.00199	J	0.0100	0.00124	mg/L			11/09/23 09:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124					11/09/23 09:41	1
Dibromofluoromethane (Surr)	99		75 - 131					11/09/23 09:41	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144					11/09/23 09:41	1
Toluene-d8 (Surr)	100		80 - 120					11/09/23 09:41	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.272	J	0.500	0.0711	mg/L			11/08/23 19:25	1
Nitrate as N	<0.0391	U H	0.100	0.0391	mg/L			11/08/23 19:25	1
Chloride	222		0.500	0.250	mg/L			11/08/23 19:25	1
Nitrite as N	<0.0293	U H F1	0.100	0.0293	mg/L			11/08/23 19:25	1
Fluoride	0.379	J	0.500	0.100	mg/L			11/08/23 19:25	1
Sulfate	43.3		0.500	0.200	mg/L			11/08/23 19:25	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	201		10.0	5.76	mg/L		11/09/23 09:00	11/09/23 19:07	50
Magnesium	40.3		0.200	0.0428	mg/L		11/09/23 09:00	11/09/23 18:49	1
Potassium	3.02		0.500	0.0914	mg/L		11/09/23 09:00	11/09/23 18:49	1
Sodium	71.9		0.500	0.152	mg/L		11/09/23 09:00	11/09/23 18:49	1
SiO2	64.8		1.07	0.471	mg/L		11/09/23 09:00	11/09/23 18:49	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-2.77				%			11/13/23 12:16	1
Alkalinity (SM 2320B)	408		4.00	4.00	mg/L			11/09/23 13:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	408		4.00	4.00	mg/L			11/09/23 13:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/09/23 13:08	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/09/23 13:08	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/09/23 13:08	1
Total Dissolved Solids (SM 2540C)	1160		10.0	10.0	mg/L			11/09/23 09:28	1
pH (SM 4500 H+ B)	6.9	HF			SU			11/09/23 12:28	1
Temperature (SM 4500 H+ B)	18.3	HF			Degrees C			11/09/23 12:28	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-35394-1
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)
880-35394-1	Levey Well	100	99	99	100
LCS 860-130187/3	Lab Control Sample	99	100	93	99
LCSD 860-130187/4	Lab Control Sample Dup	98	100	93	99
MB 860-130187/9	Method Blank	98	97	97	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: 880-35394-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-130187/9

Matrix: Water

Analysis Batch: 130187

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			11/09/23 08:40	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/09/23 08:40	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/09/23 08:40	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/09/23 08:40	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/09/23 08:40	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/09/23 08:40	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/09/23 08:40	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/09/23 08:40	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/09/23 08:40	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/09/23 08:40	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/09/23 08:40	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/09/23 08:40	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/09/23 08:40	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/09/23 08:40	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/09/23 08:40	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/09/23 08:40	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/09/23 08:40	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/09/23 08:40	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/09/23 08:40	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/09/23 08:40	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/09/23 08:40	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/09/23 08:40	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/09/23 08:40	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/09/23 08:40	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/09/23 08:40	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/09/23 08:40	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/09/23 08:40	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/09/23 08:40	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/09/23 08:40	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/09/23 08:40	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/09/23 08:40	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/09/23 08:40	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/09/23 08:40	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/09/23 08:40	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/09/23 08:40	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/09/23 08:40	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/09/23 08:40	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/09/23 08:40	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/09/23 08:40	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/09/23 08:40	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/09/23 08:40	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/09/23 08:40	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/09/23 08:40	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/09/23 08:40	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/09/23 08:40	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/09/23 08:40	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/09/23 08:40	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/09/23 08:40	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-130187/9
Matrix: Water
Analysis Batch: 130187

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/09/23 08:40	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		11/09/23 08:40	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		11/09/23 08:40	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		11/09/23 08:40	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		11/09/23 08:40	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		11/09/23 08:40	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L		11/09/23 08:40	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		11/09/23 08:40	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		11/09/23 08:40	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		11/09/23 08:40	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		11/09/23 08:40	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		11/09/23 08:40	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		11/09/23 08:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		74 - 124		11/09/23 08:40	1
Dibromofluoromethane (Surr)	97		75 - 131		11/09/23 08:40	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/09/23 08:40	1
Toluene-d8 (Surr)	99		80 - 120		11/09/23 08:40	1

Lab Sample ID: LCS 860-130187/3
Matrix: Water
Analysis Batch: 130187

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.04579		mg/L		92	75 - 125
Bromobenzene	0.0500	0.04786		mg/L		96	75 - 125
Bromochloromethane	0.0500	0.04384		mg/L		88	60 - 140
Bromodichloromethane	0.0500	0.04578		mg/L		92	75 - 125
Bromoform	0.0500	0.04747		mg/L		95	70 - 130
Bromomethane	0.0500	0.04655		mg/L		93	60 - 140
2-Butanone	0.250	0.2242		mg/L		90	60 - 140
Carbon tetrachloride	0.0500	0.04531		mg/L		91	70 - 130
Chlorobenzene	0.0500	0.04677		mg/L		94	65 - 135
Chloroethane	0.0500	0.04309		mg/L		86	60 - 140
Chloroform	0.0500	0.04562		mg/L		91	70 - 121
Chloromethane	0.0500	0.04091		mg/L		82	60 - 140
2-Chlorotoluene	0.0500	0.04683		mg/L		94	73 - 125
4-Chlorotoluene	0.0500	0.04626		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04525		mg/L		91	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04632		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04691		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05128		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.04777		mg/L		96	73 - 125
1,2-Dichlorobenzene	0.0500	0.04713		mg/L		94	75 - 125
1,3-Dichlorobenzene	0.0500	0.04766		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04757		mg/L		95	75 - 125
Dichlorodifluoromethane	0.0500	0.04564		mg/L		91	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-130187/3
Matrix: Water
Analysis Batch: 130187

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	0.04552		mg/L		91	70 - 130
1,2-Dichloroethane	0.0500	0.04562		mg/L		91	72 - 130
1,1-Dichloroethene	0.0500	0.04645		mg/L		93	50 - 150
1,2-Dichloropropane	0.0500	0.04627		mg/L		93	74 - 125
1,3-Dichloropropane	0.0500	0.04669		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.04711		mg/L		94	75 - 125
1,1-Dichloropropene	0.0500	0.04783		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.04623		mg/L		92	75 - 125
Hexachlorobutadiene	0.0500	0.05238		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.04699		mg/L		94	75 - 125
Methylene Chloride	0.0500	0.04919		mg/L		98	71 - 125
m,p-Xylenes	0.0500	0.04559		mg/L		91	75 - 125
MTBE	0.0500	0.04529		mg/L		91	65 - 135
Naphthalene	0.0500	0.05011		mg/L		100	70 - 130
n-Butylbenzene	0.0500	0.04900		mg/L		98	75 - 125
N-Propylbenzene	0.0500	0.04829		mg/L		97	75 - 125
o-Xylene	0.0500	0.04550		mg/L		91	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04860		mg/L		97	75 - 125
sec-Butylbenzene	0.0500	0.04884		mg/L		98	75 - 125
Styrene	0.0500	0.04659		mg/L		93	75 - 125
tert-Butylbenzene	0.0500	0.04796		mg/L		96	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04679		mg/L		94	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04729		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.04922		mg/L		98	71 - 125
Toluene	0.0500	0.04617		mg/L		92	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04671		mg/L		93	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04578		mg/L		92	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05055		mg/L		101	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05080		mg/L		102	75 - 135
1,1,1-Trichloroethane	0.0500	0.04598		mg/L		92	70 - 130
1,1,2-Trichloroethane	0.0500	0.04657		mg/L		93	70 - 130
Trichloroethene	0.0500	0.04860		mg/L		97	75 - 135
Trichlorofluoromethane	0.0500	0.05252		mg/L		105	60 - 140
1,2,3-Trichloropropane	0.0500	0.04601		mg/L		92	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04680		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04721		mg/L		94	60 - 140
Vinyl chloride	0.0500	0.04555		mg/L		91	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	99		80 - 120

QC Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-130187/4

Matrix: Water

Analysis Batch: 130187

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	0.04391		mg/L		88	75 - 125	4	25
Bromobenzene	0.0500	0.04614		mg/L		92	75 - 125	4	25
Bromochloromethane	0.0500	0.04219		mg/L		84	60 - 140	4	25
Bromodichloromethane	0.0500	0.04392		mg/L		88	75 - 125	4	25
Bromoform	0.0500	0.04503		mg/L		90	70 - 130	5	25
Bromomethane	0.0500	0.04456		mg/L		89	60 - 140	4	25
2-Butanone	0.250	0.2058		mg/L		82	60 - 140	9	25
Carbon tetrachloride	0.0500	0.04251		mg/L		85	70 - 130	6	25
Chlorobenzene	0.0500	0.04512		mg/L		90	65 - 135	4	25
Chloroethane	0.0500	0.04036		mg/L		81	60 - 140	7	25
Chloroform	0.0500	0.04468		mg/L		89	70 - 121	2	25
Chloromethane	0.0500	0.03878		mg/L		78	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04476		mg/L		90	73 - 125	5	25
4-Chlorotoluene	0.0500	0.04436		mg/L		89	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04379		mg/L		88	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.04477		mg/L		90	74 - 125	3	25
Dibromochloromethane	0.0500	0.04499		mg/L		90	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04757		mg/L		95	59 - 125	7	25
1,2-Dibromoethane	0.0500	0.04559		mg/L		91	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04543		mg/L		91	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.04616		mg/L		92	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04599		mg/L		92	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04079		mg/L		82	50 - 150	11	25
1,1-Dichloroethane	0.0500	0.04435		mg/L		89	70 - 130	3	25
1,2-Dichloroethane	0.0500	0.04392		mg/L		88	72 - 130	4	25
1,1-Dichloroethene	0.0500	0.04325		mg/L		86	50 - 150	7	25
1,2-Dichloropropane	0.0500	0.04503		mg/L		90	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04447		mg/L		89	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.04504		mg/L		90	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.04553		mg/L		91	75 - 125	5	25
Ethylbenzene	0.0500	0.04439		mg/L		89	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.04882		mg/L		98	75 - 125	7	25
Isopropylbenzene	0.0500	0.04488		mg/L		90	75 - 125	5	25
Methylene Chloride	0.0500	0.04715		mg/L		94	71 - 125	4	25
m,p-Xylenes	0.0500	0.04415		mg/L		88	75 - 125	3	25
MTBE	0.0500	0.04284		mg/L		86	65 - 135	6	25
Naphthalene	0.0500	0.04728		mg/L		95	70 - 130	6	25
n-Butylbenzene	0.0500	0.04587		mg/L		92	75 - 125	7	25
N-Propylbenzene	0.0500	0.04469		mg/L		89	75 - 125	8	25
o-Xylene	0.0500	0.04375		mg/L		88	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04574		mg/L		91	75 - 125	6	25
sec-Butylbenzene	0.0500	0.04565		mg/L		91	75 - 125	7	25
Styrene	0.0500	0.04455		mg/L		89	75 - 125	4	25
tert-Butylbenzene	0.0500	0.04542		mg/L		91	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.04511		mg/L		90	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04475		mg/L		89	74 - 125	6	25
Tetrachloroethene	0.0500	0.04639		mg/L		93	71 - 125	6	25
Toluene	0.0500	0.04435		mg/L		89	70 - 130	4	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-130187/4

Matrix: Water

Analysis Batch: 130187

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			
trans-1,2-Dichloroethene	0.0500	0.04451		mg/L		89	75 - 125		5	25
trans-1,3-Dichloropropene	0.0500	0.04432		mg/L		89	66 - 125		3	25
1,2,3-Trichlorobenzene	0.0500	0.04778		mg/L		96	75 - 137		6	25
1,2,4-Trichlorobenzene	0.0500	0.04804		mg/L		96	75 - 135		6	25
1,1,1-Trichloroethane	0.0500	0.04362		mg/L		87	70 - 130		5	25
1,1,2-Trichloroethane	0.0500	0.04471		mg/L		89	70 - 130		4	25
Trichloroethene	0.0500	0.04656		mg/L		93	75 - 135		4	25
Trichlorofluoromethane	0.0500	0.04688		mg/L		94	60 - 140		11	25
1,2,3-Trichloropropane	0.0500	0.04268		mg/L		85	75 - 125		8	25
1,2,4-Trimethylbenzene	0.0500	0.04494		mg/L		90	75 - 125		4	25
1,3,5-Trimethylbenzene	0.0500	0.04500		mg/L		90	60 - 140		5	25
Vinyl chloride	0.0500	0.04336		mg/L		87	60 - 140		5	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-130095/3

Matrix: Water

Analysis Batch: 130095

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Lab Sample ID: LCS 860-130095/4

Matrix: Water

Analysis Batch: 130095

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	9.571		mg/L		96	90 - 110	
Chloride	10.0	9.411		mg/L		94	90 - 110	
Fluoride	10.0	9.876		mg/L		99	90 - 110	
Sulfate	10.0	10.53		mg/L		105	90 - 110	

Lab Sample ID: LCSD 860-130095/5

Matrix: Water

Analysis Batch: 130095

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			
Bromide	10.0	9.613		mg/L		96	90 - 110		0	20
Chloride	10.0	9.441		mg/L		94	90 - 110		0	20
Fluoride	10.0	9.902		mg/L		99	90 - 110		0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-130095/5

Matrix: Water

Analysis Batch: 130095

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	10.58		mg/L		106	90 - 110	0	20

Lab Sample ID: 880-35394-1 MS

Matrix: Water

Analysis Batch: 130095

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	RPD	RPD Limit
Bromide	0.272	J	10.0	9.250		mg/L		90	90 - 110		
Chloride	222		10.0	228.3	4	mg/L		61	90 - 110		
Fluoride	0.379	J	10.0	9.708		mg/L		93	90 - 110		
Sulfate	43.3		10.0	49.72	4	mg/L		64	90 - 110		

Lab Sample ID: 880-35394-1 MSD

Matrix: Water

Analysis Batch: 130095

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.272	J	10.0	9.286		mg/L		90	90 - 110	0	15
Chloride	222		10.0	228.2	4	mg/L		59	90 - 110	0	15
Fluoride	0.379	J	10.0	9.711		mg/L		93	90 - 110	0	15
Sulfate	43.3		10.0	49.43	4	mg/L		61	90 - 110	1	15

Lab Sample ID: MB 860-130096/3

Matrix: Water

Analysis Batch: 130096

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			11/08/23 11:23	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/08/23 11:23	1

Lab Sample ID: LCS 860-130096/4

Matrix: Water

Analysis Batch: 130096

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	9.796		mg/L		98	80 - 120		
Nitrite as N	10.0	10.33		mg/L		103	80 - 120		

Lab Sample ID: LCSD 860-130096/5

Matrix: Water

Analysis Batch: 130096

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	9.805		mg/L		98	80 - 120	0	20
Nitrite as N	10.0	10.36		mg/L		104	80 - 120	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-130096/6

Matrix: Water

Analysis Batch: 130096

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike	LLCS	LLCS	Unit	D	%Rec	%Rec		
	Added	Result	Qualifier	Result	Qualifier				Limits		
Nitrate as N	0.100	0.08231	J			mg/L		82	50 - 150		
Nitrite as N	0.100	0.05092	J			mg/L		51	50 - 150		

Lab Sample ID: 880-35394-1 MS

Matrix: Water

Analysis Batch: 130096

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier		Result	Qualifier				Limits		
Nitrate as N	<0.0391	U H	10.0	9.564		mg/L		96	80 - 120		
Nitrite as N	<0.0293	U H F1	2.50	1.308	F1	mg/L		52	80 - 120		

Lab Sample ID: 880-35394-1 MSD

Matrix: Water

Analysis Batch: 130096

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Nitrate as N	<0.0391	U H	10.0	9.574		mg/L		96	80 - 120	0	15
Nitrite as N	<0.0293	U H F1	2.50	1.215	F1	mg/L		49	80 - 120	7	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-130245/1-A

Matrix: Water

Analysis Batch: 130483

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 130245

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier							
Calcium	<0.115	U	0.200	0.115	mg/L	11/09/23 09:00	11/09/23 18:03	1	
Magnesium	<0.0428	U	0.200	0.0428	mg/L	11/09/23 09:00	11/09/23 18:03	1	
Potassium	<0.0914	U	0.500	0.0914	mg/L	11/09/23 09:00	11/09/23 18:03	1	
Sodium	<0.152	U	0.500	0.152	mg/L	11/09/23 09:00	11/09/23 18:03	1	
SiO2	<0.471	U	1.07	0.471	mg/L	11/09/23 09:00	11/09/23 18:03	1	

Lab Sample ID: LCS 860-130245/2-A

Matrix: Water

Analysis Batch: 130483

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 130245

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
	Added	Result	Qualifier	Result	Qualifier				Limits		
Calcium	25.0	24.20				mg/L		97	85 - 115		
Magnesium	25.0	23.90				mg/L		96	85 - 115		
Potassium	10.0	9.750				mg/L		98	85 - 115		
Sodium	25.0	24.40				mg/L		98	85 - 115		
SiO2	21.4	22.26				mg/L		104	85 - 115		

Lab Sample ID: LCSD 860-130245/3-A

Matrix: Water

Analysis Batch: 130483

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 130245

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier	Result	Qualifier				Limits	RPD	
Calcium	25.0	24.20				mg/L		97	85 - 115	0	20
Magnesium	25.0	23.90				mg/L		96	85 - 115	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-130245/3-A

Matrix: Water

Analysis Batch: 130483

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 130245

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits		Limit
Potassium	10.0	9.780		mg/L		98	85 - 115	0	20
Sodium	25.0	24.30		mg/L		97	85 - 115	0	20
SiO2	21.4	22.04		mg/L		103	85 - 115	1	20

Lab Sample ID: LLCS 860-130245/4-A

Matrix: Water

Analysis Batch: 130483

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 130245

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	0.200	0.1310	J	mg/L		66	50 - 150	
Magnesium	0.200	0.1990	J	mg/L		100	50 - 150	
Potassium	0.500	0.5470		mg/L		109	50 - 150	
Sodium	0.500	0.4940	J	mg/L		99	50 - 150	
SiO2	1.07	1.066	J	mg/L		100	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-130330/3

Matrix: Water

Analysis Batch: 130330

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			11/09/23 09:52	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			11/09/23 09:52	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			11/09/23 09:52	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			11/09/23 09:52	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			11/09/23 09:52	1

Lab Sample ID: LCS 860-130330/4

Matrix: Water

Analysis Batch: 130330

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 860-130330/5

Matrix: Water

Analysis Batch: 130330

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits		Limit
Alkalinity	250	235.2		mg/L		94	85 - 115	2	20

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

Lab Sample ID: MB 860-130248/1

Matrix: Water

Analysis Batch: 130248

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	<5.00	U	5.00	mg/L			11/09/23 09:28	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-35394-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-130248/2

Matrix: Water

Analysis Batch: 130248

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	1102		mg/L		110	80 - 120

Lab Sample ID: LCSD 860-130248/3

Matrix: Water

Analysis Batch: 130248

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	1101		mg/L		110	80 - 120	0	10

Lab Sample ID: LLCS 860-130248/4

Matrix: Water

Analysis Batch: 130248

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	6.500		mg/L		130	50 - 150

QC Association Summary

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

Job ID: 880-35394-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 130187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total/NA	Water	8260C	
MB 860-130187/9	Method Blank	Total/NA	Water	8260C	
LCS 860-130187/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-130187/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 130095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total/NA	Water	300.0	
MB 860-130095/3	Method Blank	Total/NA	Water	300.0	
LCS 860-130095/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-130095/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-35394-1 MS	Levey Well	Total/NA	Water	300.0	
880-35394-1 MSD	Levey Well	Total/NA	Water	300.0	

Analysis Batch: 130096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total/NA	Water	300.0	
MB 860-130096/3	Method Blank	Total/NA	Water	300.0	
LCS 860-130096/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-130096/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-130096/6	Lab Control Sample	Total/NA	Water	300.0	
880-35394-1 MS	Levey Well	Total/NA	Water	300.0	
880-35394-1 MSD	Levey Well	Total/NA	Water	300.0	

Metals

Prep Batch: 130245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-130245/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-130245/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-130245/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-130245/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 130483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	130245
880-35394-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	130245
MB 860-130245/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	130245
LCS 860-130245/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	130245
LCSD 860-130245/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	130245
LLCS 860-130245/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	130245

General Chemistry

Analysis Batch: 127324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total/NA	Water	SM 1030E	

Eurofins Midland

QC Association Summary

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

Job ID: 880-35394-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 130248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-130248/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-130248/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-130248/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-130248/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 130330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-130330/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-130330/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-130330/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 130350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35394-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 880-35394-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 11/06/23 13:20
Date Received: 11/06/23 16:23

Lab Sample ID: 880-35394-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	130187	NA	EET HOU	11/09/23 09:41
Total/NA	Analysis	300.0		1	130095	RBNS	EET HOU	11/08/23 19:25
Total/NA	Analysis	300.0		1	130096	RBNS	EET HOU	11/08/23 19:25
Total Recoverable	Prep	200.7			130245	MD	EET HOU	11/09/23 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	130483	DP	EET HOU	11/09/23 18:49
Total Recoverable	Prep	200.7			130245	MD	EET HOU	11/09/23 09:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	130483	DP	EET HOU	11/09/23 19:07
Total/NA	Analysis	SM 1030E		1	127324	MC	EET HOU	11/13/23 12:16
Total/NA	Analysis	SM 2320B		1	130330	KEG	EET HOU	11/09/23 13:08
Total/NA	Analysis	SM 2540C		1	130248	SA	EET HOU	11/09/23 09:28
Total/NA	Analysis	SM 4500 H+ B		1	130350	KEG	EET HOU	11/09/23 12:28

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: 880-35394-1
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	T104704215-23-53	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: 880-35394-1
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: 880-35394-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35394-1	Levey Well	Water	11/06/23 13:20	11/06/23 16:23

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



Chain of Custody

Work



880-35394 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)565-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-889-3927)
Hobbs, NM (575-392-7550)

www.xelico.com

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/ST ☐ 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):	12/1/20						
Received intact:	Yes	No			Thermometer ID	File	
Cooler Custody Seals:	Yes	No			Correction Factor:	1.20	
Sample Custody Seals:	Yes	No			Total Containers:		

[illegible]

Total 200.7 / 6010 200.8 / 6020;

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Ee Pb Mg Mn Mo Ni K Se As Si:OS N- & Ti & U V Z

TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti II 1634 / 2454 / 7470 / 7472 / 11-

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 \$8 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
		11/6/23			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-35394-1

SDG Number: Hobbs NM

Login Number: 35394
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-35394-1

SDG Number: Hobbs NM

Login Number: 35394

List Number: 2

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 11/08/23 04:11 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?	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	



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/14/2023 1:29:17 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-35395-1

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
11/14/2023 1:29:17 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: 880-35395-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	7
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	25
Lab Chronicle	27
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	32

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

Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

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
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.
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: South Hobbs - 03B1417002

Job ID: 880-35395-1

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

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: 880-35395-1

Job ID: 880-35395-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-35395-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/7/2023 4:23 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 12.6°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-130187 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 following samples were received outside of holding time: MW-1 (880-35395-1) and MW-2 (880-35395-2).

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 following sample(s) was improperly preserved in the field: non preserved. The preservative used is not compatible with the analytes requested. This does not meet regulatory requirements.

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: 880-35395-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-35395-1

Date Collected: 11/06/23 10:25

Matrix: Water

Date Received: 11/07/23 16:23

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		11/09/23 09:00	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		11/09/23 09:00	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		11/09/23 09:00	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		11/09/23 09:00	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		11/09/23 09:00	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		11/09/23 09:00	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		11/09/23 09:00	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		11/09/23 09:00	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		11/09/23 09:00	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		11/09/23 09:00	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		11/09/23 09:00	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		11/09/23 09:00	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		11/09/23 09:00	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		11/09/23 09:00	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		11/09/23 09:00	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		11/09/23 09:00	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		11/09/23 09:00	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		11/09/23 09:00	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		11/09/23 09:00	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		11/09/23 09:00	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		11/09/23 09:00	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		11/09/23 09:00	1
Dichlorodifluoromethane	<0.000785	U F1	0.00100	0.000785	mg/L		11/09/23 09:00	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		11/09/23 09:00	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		11/09/23 09:00	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		11/09/23 09:00	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		11/09/23 09:00	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		11/09/23 09:00	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		11/09/23 09:00	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		11/09/23 09:00	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		11/09/23 09:00	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		11/09/23 09:00	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		11/09/23 09:00	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		11/09/23 09:00	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		11/09/23 09:00	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		11/09/23 09:00	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		11/09/23 09:00	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		11/09/23 09:00	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		11/09/23 09:00	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		11/09/23 09:00	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		11/09/23 09:00	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		11/09/23 09:00	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		11/09/23 09:00	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		11/09/23 09:00	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		11/09/23 09:00	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		11/09/23 09:00	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		11/09/23 09:00	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		11/09/23 09:00	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/09/23 09:00	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

Client Sample ID: MW-1

Lab Sample ID: 880-35395-1

Date Collected: 11/06/23 10:25

Matrix: Water

Date Received: 11/07/23 16:23

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			11/09/23 09:00	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/09/23 09:00	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/09/23 09:00	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/09/23 09:00	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/09/23 09:00	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			11/09/23 09:00	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/09/23 09:00	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/09/23 09:00	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			11/09/23 09:00	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/09/23 09:00	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/09/23 09:00	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/09/23 09:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124				11/09/23 09:00	1
Dibromofluoromethane (Surr)	98		75 - 131				11/09/23 09:00	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				11/09/23 09:00	1
Toluene-d8 (Surr)	99		80 - 120				11/09/23 09:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.938	U	4.75	0.938 mg/L			11/13/23 16:12	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	<0.938	U	4.75	0.938 mg/L		11/10/23 14:14	11/13/23 16:12	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938 mg/L		11/10/23 14:14	11/13/23 16:12	1
Oil Range Organics (Over C28-C36)	<0.905	U	4.75	0.905 mg/L		11/10/23 14:14	11/13/23 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 135			11/10/23 14:14	11/13/23 16:12	1
o-Terphenyl	122		70 - 135			11/10/23 14:14	11/13/23 16:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		0.500	0.250 mg/L			11/11/23 17:54	1
Nitrate as N	0.0630	J H	0.100	0.0391 mg/L			11/11/23 17:54	1
Fluoride	<0.100	U F1	0.500	0.100 mg/L			11/10/23 03:44	1
Nitrite as N	0.551	H	0.100	0.0293 mg/L			11/11/23 17:54	1
Sulfate	89.6		0.500	0.200 mg/L			11/10/23 03:44	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	775		4.00	4.00 mg/L			11/09/23 13:20	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	775		4.00	4.00 mg/L			11/09/23 13:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/09/23 13:20	1
Carbon dioxide (SM 4500 CO2 D)	927			mg/L			11/10/23 11:41	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

Client Sample ID: MW-1

Lab Sample ID: 880-35395-1

Date Collected: 11/06/23 10:25

Matrix: Water

Date Received: 11/07/23 16:23

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	245			mg/L			11/10/23 11:41	1	
pH (SM 4500 H+ B)	6.8	HF		SU			11/09/23 12:36	1	
Temperature (SM 4500 H+ B)	18.3	HF		Degrees C			11/09/23 12:36	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			11/09/23 16:25	1	

Client Sample ID: MW-2

Lab Sample ID: 880-35395-2

Date Collected: 11/06/23 11:55

Matrix: Water

Date Received: 11/07/23 16:23

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	0.0125		0.00100	0.000460 mg/L			11/09/23 09:21	1	
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/09/23 09:21	1	
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/09/23 09:21	1	
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/09/23 09:21	1	
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/09/23 09:21	1	
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/09/23 09:21	1	
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/09/23 09:21	1	
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/09/23 09:21	1	
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/09/23 09:21	1	
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/09/23 09:21	1	
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/09/23 09:21	1	
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/09/23 09:21	1	
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/09/23 09:21	1	
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/09/23 09:21	1	
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/09/23 09:21	1	
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/09/23 09:21	1	
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/09/23 09:21	1	
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/09/23 09:21	1	
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/09/23 09:21	1	
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/09/23 09:21	1	
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/09/23 09:21	1	
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/09/23 09:21	1	
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/09/23 09:21	1	
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/09/23 09:21	1	
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/09/23 09:21	1	
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/09/23 09:21	1	
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/09/23 09:21	1	
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/09/23 09:21	1	
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/09/23 09:21	1	
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/09/23 09:21	1	
Ethylbenzene	0.0164		0.00100	0.000385 mg/L			11/09/23 09:21	1	
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/09/23 09:21	1	
Isopropylbenzene	0.00702		0.00100	0.000592 mg/L			11/09/23 09:21	1	
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/09/23 09:21	1	
m,p-Xylenes	0.0349		0.0100	0.00124 mg/L			11/09/23 09:21	1	

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

Client Sample ID: MW-2

Lab Sample ID: 880-35395-2

Date Collected: 11/06/23 11:55

Matrix: Water

Date Received: 11/07/23 16:23

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			11/09/23 09:21	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			11/09/23 09:21	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L			11/09/23 09:21	1
N-Propylbenzene	0.00218		0.00100	0.000429	mg/L			11/09/23 09:21	1
o-Xylene	0.0127		0.00100	0.000502	mg/L			11/09/23 09:21	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L			11/09/23 09:21	1
sec-Butylbenzene	0.000836	J	0.00100	0.000468	mg/L			11/09/23 09:21	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			11/09/23 09:21	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			11/09/23 09:21	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			11/09/23 09:21	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			11/09/23 09:21	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			11/09/23 09:21	1
Toluene	0.00338		0.00100	0.000475	mg/L			11/09/23 09:21	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			11/09/23 09:21	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			11/09/23 09:21	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			11/09/23 09:21	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			11/09/23 09:21	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			11/09/23 09:21	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			11/09/23 09:21	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			11/09/23 09:21	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			11/09/23 09:21	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			11/09/23 09:21	1
1,2,4-Trimethylbenzene	0.0189		0.00100	0.000417	mg/L			11/09/23 09:21	1
1,3,5-Trimethylbenzene	0.00523		0.00100	0.000411	mg/L			11/09/23 09:21	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			11/09/23 09:21	1
Xylenes, Total	0.0476		0.0100	0.00124	mg/L			11/09/23 09:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124					11/09/23 09:21	1
Dibromofluoromethane (Surr)	99		75 - 131					11/09/23 09:21	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144					11/09/23 09:21	1
Toluene-d8 (Surr)	98		80 - 120					11/09/23 09:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.28	J	4.66	0.920	mg/L			11/13/23 15:52	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	1.28	J	4.66	0.920	mg/L		11/10/23 14:14	11/13/23 15:52	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920	mg/L		11/10/23 14:14	11/13/23 15:52	1
Oil Range Organics (Over C28-C36)	<0.888	U	4.66	0.888	mg/L		11/10/23 14:14	11/13/23 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135				11/10/23 14:14	11/13/23 15:52	1
o-Terphenyl	116		70 - 135				11/10/23 14:14	11/13/23 15:52	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

Client Sample ID: MW-2
Date Collected: 11/06/23 11:55
Date Received: 11/07/23 16:23

Lab Sample ID: 880-35395-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.9		0.500	0.250	mg/L			11/11/23 17:17	1
Nitrate as N	0.323	H	0.100	0.0391	mg/L			11/11/23 17:17	1
Fluoride	<1.00	U	5.00	1.00	mg/L			11/10/23 03:35	10
Nitrite as N	1.31	H	0.100	0.0293	mg/L			11/11/23 17:17	1
Sulfate	23.8		5.00	2.00	mg/L			11/10/23 03:35	10

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1180		4.00	4.00	mg/L			11/09/23 13:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1180		4.00	4.00	mg/L			11/09/23 13:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/09/23 13:35	1
Carbon dioxide (SM 4500 CO2 D)	2530				mg/L			11/10/23 11:41	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1490				mg/L			11/10/23 11:41	1
pH (SM 4500 H+ B)	6.2	HF			SU			11/09/23 12:38	1
Temperature (SM 4500 H+ B)	18.7	HF			Degrees C			11/09/23 12:38	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

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)
880-35395-1	MW-1	98	98	99	99
880-35395-1 MS	MW-1	98	98	92	99
880-35395-2	MW-2	96	99	99	98
LCS 860-130187/3	Lab Control Sample	99	100	93	99
LCSD 860-130187/4	Lab Control Sample Dup	98	100	93	99
MB 860-130187/9	Method Blank	98	97	97	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)
880-35395-1	MW-1	102	122
880-35395-2	MW-2	95	116
LCS 860-130512/2-A	Lab Control Sample	117	113
LCSD 860-130512/3-A	Lab Control Sample Dup	113	103
MB 860-130512/1-A	Method Blank	108	126
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-130187/9

Matrix: Water

Analysis Batch: 130187

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			11/09/23 08:40	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/09/23 08:40	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/09/23 08:40	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/09/23 08:40	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/09/23 08:40	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/09/23 08:40	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/09/23 08:40	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/09/23 08:40	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/09/23 08:40	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/09/23 08:40	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/09/23 08:40	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/09/23 08:40	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/09/23 08:40	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/09/23 08:40	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/09/23 08:40	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/09/23 08:40	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/09/23 08:40	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/09/23 08:40	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/09/23 08:40	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/09/23 08:40	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/09/23 08:40	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/09/23 08:40	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/09/23 08:40	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/09/23 08:40	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/09/23 08:40	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/09/23 08:40	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/09/23 08:40	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/09/23 08:40	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/09/23 08:40	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/09/23 08:40	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/09/23 08:40	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/09/23 08:40	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/09/23 08:40	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/09/23 08:40	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/09/23 08:40	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/09/23 08:40	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/09/23 08:40	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/09/23 08:40	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/09/23 08:40	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/09/23 08:40	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/09/23 08:40	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/09/23 08:40	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/09/23 08:40	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/09/23 08:40	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/09/23 08:40	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/09/23 08:40	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/09/23 08:40	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/09/23 08:40	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-130187/9

Matrix: Water

Analysis Batch: 130187

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	<0.000368	U	0.00100	0.000368 mg/L			11/09/23 08:40	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			11/09/23 08:40	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/09/23 08:40	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/09/23 08:40	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/09/23 08:40	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/09/23 08:40	1
Trichloroethene	<0.000791	U	0.00500	0.000791 mg/L			11/09/23 08:40	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/09/23 08:40	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/09/23 08:40	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			11/09/23 08:40	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/09/23 08:40	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/09/23 08:40	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/09/23 08:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		11/09/23 08:40	1
Dibromofluoromethane (Surr)	97		75 - 131		11/09/23 08:40	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/09/23 08:40	1
Toluene-d8 (Surr)	99		80 - 120		11/09/23 08:40	1

Lab Sample ID: LCS 860-130187/3

Matrix: Water

Analysis Batch: 130187

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	0.04579		mg/L		92	75 - 125
Bromobenzene	0.0500	0.04786		mg/L		96	75 - 125
Bromochloromethane	0.0500	0.04384		mg/L		88	60 - 140
Bromodichloromethane	0.0500	0.04578		mg/L		92	75 - 125
Bromoform	0.0500	0.04747		mg/L		95	70 - 130
Bromomethane	0.0500	0.04655		mg/L		93	60 - 140
2-Butanone	0.250	0.2242		mg/L		90	60 - 140
Carbon tetrachloride	0.0500	0.04531		mg/L		91	70 - 130
Chlorobenzene	0.0500	0.04677		mg/L		94	65 - 135
Chloroethane	0.0500	0.04309		mg/L		86	60 - 140
Chloroform	0.0500	0.04562		mg/L		91	70 - 121
Chloromethane	0.0500	0.04091		mg/L		82	60 - 140
2-Chlorotoluene	0.0500	0.04683		mg/L		94	73 - 125
4-Chlorotoluene	0.0500	0.04626		mg/L		93	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04525		mg/L		91	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04632		mg/L		93	74 - 125
Dibromochloromethane	0.0500	0.04691		mg/L		94	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05128		mg/L		103	59 - 125
1,2-Dibromoethane	0.0500	0.04777		mg/L		96	73 - 125
1,2-Dichlorobenzene	0.0500	0.04713		mg/L		94	75 - 125
1,3-Dichlorobenzene	0.0500	0.04766		mg/L		95	75 - 125
1,4-Dichlorobenzene	0.0500	0.04757		mg/L		95	75 - 125
Dichlorodifluoromethane	0.0500	0.04564		mg/L		91	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-130187/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 130187

Analyte	Spike	LCS	LCS			%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethane	0.0500	0.04552		mg/L		91	70 - 130
1,2-Dichloroethane	0.0500	0.04562		mg/L		91	72 - 130
1,1-Dichloroethene	0.0500	0.04645		mg/L		93	50 - 150
1,2-Dichloropropane	0.0500	0.04627		mg/L		93	74 - 125
1,3-Dichloropropane	0.0500	0.04669		mg/L		93	75 - 125
2,2-Dichloropropane	0.0500	0.04711		mg/L		94	75 - 125
1,1-Dichloropropene	0.0500	0.04783		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.04623		mg/L		92	75 - 125
Hexachlorobutadiene	0.0500	0.05238		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.04699		mg/L		94	75 - 125
Methylene Chloride	0.0500	0.04919		mg/L		98	71 - 125
m,p-Xylenes	0.0500	0.04559		mg/L		91	75 - 125
MTBE	0.0500	0.04529		mg/L		91	65 - 135
Naphthalene	0.0500	0.05011		mg/L		100	70 - 130
n-Butylbenzene	0.0500	0.04900		mg/L		98	75 - 125
N-Propylbenzene	0.0500	0.04829		mg/L		97	75 - 125
o-Xylene	0.0500	0.04550		mg/L		91	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04860		mg/L		97	75 - 125
sec-Butylbenzene	0.0500	0.04884		mg/L		98	75 - 125
Styrene	0.0500	0.04659		mg/L		93	75 - 125
tert-Butylbenzene	0.0500	0.04796		mg/L		96	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04679		mg/L		94	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04729		mg/L		95	74 - 125
Tetrachloroethene	0.0500	0.04922		mg/L		98	71 - 125
Toluene	0.0500	0.04617		mg/L		92	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04671		mg/L		93	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04578		mg/L		92	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05055		mg/L		101	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05080		mg/L		102	75 - 135
1,1,1-Trichloroethane	0.0500	0.04598		mg/L		92	70 - 130
1,1,2-Trichloroethane	0.0500	0.04657		mg/L		93	70 - 130
Trichloroethene	0.0500	0.04860		mg/L		97	75 - 135
Trichlorofluoromethane	0.0500	0.05252		mg/L		105	60 - 140
1,2,3-Trichloropropane	0.0500	0.04601		mg/L		92	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04680		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04721		mg/L		94	60 - 140
Vinyl chloride	0.0500	0.04555		mg/L		91	60 - 140

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-130187/4

Matrix: Water

Analysis Batch: 130187

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	0.04391		mg/L		88	75 - 125	4	25
Bromobenzene	0.0500	0.04614		mg/L		92	75 - 125	4	25
Bromochloromethane	0.0500	0.04219		mg/L		84	60 - 140	4	25
Bromodichloromethane	0.0500	0.04392		mg/L		88	75 - 125	4	25
Bromoform	0.0500	0.04503		mg/L		90	70 - 130	5	25
Bromomethane	0.0500	0.04456		mg/L		89	60 - 140	4	25
2-Butanone	0.250	0.2058		mg/L		82	60 - 140	9	25
Carbon tetrachloride	0.0500	0.04251		mg/L		85	70 - 130	6	25
Chlorobenzene	0.0500	0.04512		mg/L		90	65 - 135	4	25
Chloroethane	0.0500	0.04036		mg/L		81	60 - 140	7	25
Chloroform	0.0500	0.04468		mg/L		89	70 - 121	2	25
Chloromethane	0.0500	0.03878		mg/L		78	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04476		mg/L		90	73 - 125	5	25
4-Chlorotoluene	0.0500	0.04436		mg/L		89	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04379		mg/L		88	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.04477		mg/L		90	74 - 125	3	25
Dibromochloromethane	0.0500	0.04499		mg/L		90	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04757		mg/L		95	59 - 125	7	25
1,2-Dibromoethane	0.0500	0.04559		mg/L		91	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04543		mg/L		91	75 - 125	4	25
1,3-Dichlorobenzene	0.0500	0.04616		mg/L		92	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.04599		mg/L		92	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.04079		mg/L		82	50 - 150	11	25
1,1-Dichloroethane	0.0500	0.04435		mg/L		89	70 - 130	3	25
1,2-Dichloroethane	0.0500	0.04392		mg/L		88	72 - 130	4	25
1,1-Dichloroethene	0.0500	0.04325		mg/L		86	50 - 150	7	25
1,2-Dichloropropane	0.0500	0.04503		mg/L		90	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04447		mg/L		89	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.04504		mg/L		90	75 - 125	4	25
1,1-Dichloropropene	0.0500	0.04553		mg/L		91	75 - 125	5	25
Ethylbenzene	0.0500	0.04439		mg/L		89	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.04882		mg/L		98	75 - 125	7	25
Isopropylbenzene	0.0500	0.04488		mg/L		90	75 - 125	5	25
Methylene Chloride	0.0500	0.04715		mg/L		94	71 - 125	4	25
m,p-Xylenes	0.0500	0.04415		mg/L		88	75 - 125	3	25
MTBE	0.0500	0.04284		mg/L		86	65 - 135	6	25
Naphthalene	0.0500	0.04728		mg/L		95	70 - 130	6	25
n-Butylbenzene	0.0500	0.04587		mg/L		92	75 - 125	7	25
N-Propylbenzene	0.0500	0.04469		mg/L		89	75 - 125	8	25
o-Xylene	0.0500	0.04375		mg/L		88	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04574		mg/L		91	75 - 125	6	25
sec-Butylbenzene	0.0500	0.04565		mg/L		91	75 - 125	7	25
Styrene	0.0500	0.04455		mg/L		89	75 - 125	4	25
tert-Butylbenzene	0.0500	0.04542		mg/L		91	75 - 125	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.04511		mg/L		90	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04475		mg/L		89	74 - 125	6	25
Tetrachloroethene	0.0500	0.04639		mg/L		93	71 - 125	6	25
Toluene	0.0500	0.04435		mg/L		89	70 - 130	4	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-130187/4

Matrix: Water

Analysis Batch: 130187

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	0.04451		mg/L		89	75 - 125	5	25
trans-1,3-Dichloropropene	0.0500	0.04432		mg/L		89	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.04778		mg/L		96	75 - 137	6	25
1,2,4-Trichlorobenzene	0.0500	0.04804		mg/L		96	75 - 135	6	25
1,1,1-Trichloroethane	0.0500	0.04362		mg/L		87	70 - 130	5	25
1,1,2-Trichloroethane	0.0500	0.04471		mg/L		89	70 - 130	4	25
Trichloroethene	0.0500	0.04656		mg/L		93	75 - 135	4	25
Trichlorofluoromethane	0.0500	0.04688		mg/L		94	60 - 140	11	25
1,2,3-Trichloropropane	0.0500	0.04268		mg/L		85	75 - 125	8	25
1,2,4-Trimethylbenzene	0.0500	0.04494		mg/L		90	75 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.04500		mg/L		90	60 - 140	5	25
Vinyl chloride	0.0500	0.04336		mg/L		87	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 880-35395-1 MS

Matrix: Water

Analysis Batch: 130187

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	0.04368		mg/L		87	66 - 142
Bromobenzene	<0.000486	U	0.0500	0.04708		mg/L		94	75 - 125
Bromochloromethane	<0.000577	U	0.0500	0.04308		mg/L		86	60 - 140
Bromodichloromethane	<0.000552	U	0.0500	0.04572		mg/L		91	75 - 125
Bromoform	<0.000633	U	0.0500	0.04743		mg/L		95	75 - 125
Bromomethane	<0.00142	U	0.0500	0.04177		mg/L		84	60 - 140
2-Butanone	<0.00828	U	0.250	0.2130		mg/L		85	60 - 140
Carbon tetrachloride	<0.000896	U	0.0500	0.03822		mg/L		76	62 - 125
Chlorobenzene	<0.000455	U	0.0500	0.04609		mg/L		92	60 - 133
Chloroethane	<0.00198	U	0.0500	0.03908		mg/L		78	60 - 140
Chloroform	<0.000464	U	0.0500	0.04447		mg/L		89	70 - 130
Chloromethane	<0.00204	U	0.0500	0.03474		mg/L		69	60 - 140
2-Chlorotoluene	<0.000459	U	0.0500	0.04425		mg/L		89	73 - 125
4-Chlorotoluene	<0.000386	U	0.0500	0.04424		mg/L		88	74 - 125
cis-1,2-Dichloroethene	<0.000457	U	0.0500	0.04328		mg/L		87	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	0.0500	0.04639		mg/L		93	74 - 125
Dibromochloromethane	<0.000547	U	0.0500	0.04726		mg/L		95	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.0500	0.04967		mg/L		99	59 - 125
1,2-Dibromoethane	<0.000999	U	0.0500	0.04757		mg/L		95	73 - 125
1,2-Dichlorobenzene	<0.000429	U	0.0500	0.04646		mg/L		93	75 - 125
1,3-Dichlorobenzene	<0.000413	U	0.0500	0.04589		mg/L		92	75 - 125
1,4-Dichlorobenzene	<0.000449	U	0.0500	0.04631		mg/L		93	75 - 125
Dichlorodifluoromethane	<0.000785	U F1	0.0500	0.02651	F1	mg/L		53	70 - 130
1,1-Dichloroethane	<0.000635	U	0.0500	0.04370		mg/L		87	72 - 125

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

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

Lab Sample ID: 880-35395-1 MS							Client Sample ID: MW-1				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 130187											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,2-Dichloroethane	<0.000372	U	0.0500	0.04506		mg/L		90	68 - 127		
1,1-Dichloroethene	<0.000738	U	0.0500	0.03902		mg/L		78	59 - 172		
1,2-Dichloropropane	<0.000556	U	0.0500	0.04542		mg/L		91	74 - 125		
1,3-Dichloropropane	<0.000514	U	0.0500	0.04645		mg/L		93	75 - 125		
2,2-Dichloropropane	<0.000679	U	0.0500	0.04276		mg/L		86	75 - 125		
1,1-Dichloropropene	<0.000624	U	0.0500	0.04196		mg/L		84	75 - 125		
Ethylbenzene	<0.000385	U	0.0500	0.04404		mg/L		88	75 - 125		
Hexachlorobutadiene	<0.000627	U	0.0500	0.04414		mg/L		88	75 - 125		
Isopropylbenzene	<0.000592	U	0.0500	0.04351		mg/L		87	75 - 125		
Methylene Chloride	<0.00173	U	0.0500	0.04440		mg/L		89	75 - 125		
m,p-Xylenes	<0.00124	U	0.0500	0.04377		mg/L		88	75 - 125		
MTBE	<0.00139	U	0.0500	0.04349		mg/L		87	65 - 135		
Naphthalene	<0.00135	U	0.0500	0.04828		mg/L		97	70 - 130		
n-Butylbenzene	<0.000510	U	0.0500	0.04307		mg/L		86	75 - 125		
N-Propylbenzene	<0.000429	U	0.0500	0.04276		mg/L		86	75 - 125		
o-Xylene	<0.000502	U	0.0500	0.04435		mg/L		89	75 - 125		
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.0500	0.04359		mg/L		87	75 - 125		
sec-Butylbenzene	<0.000468	U	0.0500	0.04294		mg/L		86	75 - 125		
Styrene	<0.000619	U	0.0500	0.04591		mg/L		92	75 - 125		
tert-Butylbenzene	<0.000442	U	0.0500	0.04360		mg/L		87	75 - 125		
1,1,1,2-Tetrachloroethane	<0.000644	U	0.0500	0.04686		mg/L		94	72 - 125		
1,1,2,2-Tetrachloroethane	<0.000470	U	0.0500	0.04665		mg/L		93	74 - 125		
Tetrachloroethene	<0.000655	U	0.0500	0.04346		mg/L		87	71 - 125		
Toluene	<0.000475	U	0.0500	0.04434		mg/L		89	59 - 139		
trans-1,2-Dichloroethene	<0.000368	U	0.0500	0.04329		mg/L		87	75 - 125		
trans-1,3-Dichloropropene	<0.00127	U	0.0500	0.04612		mg/L		92	66 - 125		
1,2,3-Trichlorobenzene	<0.00177	U	0.0500	0.04841		mg/L		97	75 - 137		
1,2,4-Trichlorobenzene	<0.00175	U	0.0500	0.04867		mg/L		97	75 - 135		
1,1,1-Trichloroethane	<0.000585	U	0.0500	0.04112		mg/L		82	75 - 125		
1,1,2-Trichloroethane	<0.000411	U	0.0500	0.04678		mg/L		94	75 - 127		
Trichloroethene	<0.000791	U	0.0500	0.04477		mg/L		90	62 - 137		
Trichlorofluoromethane	<0.000560	U	0.0500	0.03926		mg/L		79	60 - 140		
1,2,3-Trichloropropane	<0.000470	U	0.0500	0.04453		mg/L		89	75 - 125		
1,2,4-Trimethylbenzene	<0.000417	U	0.0500	0.04449		mg/L		89	75 - 125		
1,3,5-Trimethylbenzene	<0.000411	U	0.0500	0.04419		mg/L		88	70 - 125		
Vinyl chloride	<0.000428	U	0.0500	0.03658		mg/L		73	60 - 140		

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

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

Lab Sample ID: MB 860-130512/1-A							Client Sample ID: Method Blank		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 130726							Prep Batch: 130512		
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		11/10/23 14:14	11/13/23 15:32	1	
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		11/10/23 14:14	11/13/23 15:32	1	
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		11/10/23 14:14	11/13/23 15:32	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	108		70 - 135			11/10/23 14:14	11/13/23 15:32	1	
o-Terphenyl	126		70 - 135			11/10/23 14:14	11/13/23 15:32	1	

Lab Sample ID: LCS 860-130512/2-A							Client Sample ID: Lab Control Sample		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 130726							Prep Batch: 130512		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	99.9	92.35		mg/L		92	70 - 135		
Diesel Range Organics (Over C10-C28)	99.9	105.1		mg/L		105	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	117		70 - 135						
o-Terphenyl	113		70 - 135						

Lab Sample ID: LCSD 860-130512/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 130726					Prep Batch: 130512						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.9	87.47		mg/L		88	70 - 135	5	35
Diesel Range Organics (Over C10-C28)			99.9	102.2		mg/L		102	70 - 135	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	113		70 - 135								
o-Terphenyl	103		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-35395-1 MS							Client Sample ID: MW-1		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 130282									
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	<0.100	U F1	2.50	4.791	F1	mg/L		192	90 - 110
Sulfate	89.6		2.50	100.6	4	mg/L		441	90 - 110

QC Sample Results

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-35395-1 MSD

Matrix: Water

Analysis Batch: 130282

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
Fluoride	<0.100	U F1	2.50	5.094	F1	mg/L		204	90 - 110	6	15
Sulfate	89.6		2.50	101.9	4	mg/L		493	90 - 110	1	15

Lab Sample ID: MB 860-130283/5

Matrix: Water

Analysis Batch: 130283

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			11/09/23 14:25	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/09/23 14:25	1

Lab Sample ID: MB 860-130283/63

Matrix: Water

Analysis Batch: 130283

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			11/09/23 23:53	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/09/23 23:53	1

Lab Sample ID: LCS 860-130283/64

Matrix: Water

Analysis Batch: 130283

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	9.557		mg/L		96	80 - 120
Nitrite as N	10.0	9.537		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-130283/65

Matrix: Water

Analysis Batch: 130283

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	9.557		mg/L		96	80 - 120	0	20
Nitrite as N	10.0	9.548		mg/L		95	80 - 120	0	20

Lab Sample ID: LLCS 860-130283/18

Matrix: Water

Analysis Batch: 130283

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	0.500	0.2882		mg/L		58	50 - 150
Nitrite as N	0.500	0.3139		mg/L		63	50 - 150

Lab Sample ID: MB 860-130567/3

Matrix: Water

Analysis Batch: 130567

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			11/10/23 18:40	1
Fluoride	<0.100	U	0.500	0.100 mg/L			11/10/23 18:40	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-130567/3

Matrix: Water

Analysis Batch: 130567

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Sulfate	<0.200	U	0.500	0.200 mg/L			11/10/23 18:40	1

Lab Sample ID: MB 860-130567/60

Matrix: Water

Analysis Batch: 130567

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			11/11/23 13:40	1
Fluoride	<0.100	U	0.500	0.100 mg/L			11/11/23 13:40	1
Sulfate	<0.200	U	0.500	0.200 mg/L			11/11/23 13:40	1

Lab Sample ID: LCS 860-130567/61

Matrix: Water

Analysis Batch: 130567

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	9.778		mg/L		98	90 - 110
Fluoride	10.0	10.29		mg/L		103	90 - 110
Sulfate	10.0	9.769		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-130567/62

Matrix: Water

Analysis Batch: 130567

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	9.789		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.30		mg/L		103	90 - 110	0	20
Sulfate	10.0	9.752		mg/L		98	90 - 110	0	20

Lab Sample ID: LLCS 860-130567/7

Matrix: Water

Analysis Batch: 130567

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	0.4200	J	mg/L		84	50 - 150
Fluoride	0.500	0.4001	J	mg/L		80	50 - 150
Sulfate	0.500	0.3913	J	mg/L		78	50 - 150

Lab Sample ID: 880-35395-1 MS

Matrix: Water

Analysis Batch: 130567

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
Chloride	123		10.0	131.0	4	mg/L		76	90 - 110
Fluoride	0.340	J	10.0	10.70		mg/L		104	90 - 110
Sulfate	105		10.0	115.4	4	mg/L		101	90 - 110

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-35395-1 MSD
Matrix: Water
Analysis Batch: 130567

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	123		10.0	131.1	4	mg/L		77	90 - 110	0	15
Fluoride	0.340	J	10.0	10.71		mg/L		104	90 - 110	0	15
Sulfate	105		10.0	115.6	4	mg/L		103	90 - 110	0	15

Lab Sample ID: MB 860-130568/3
Matrix: Water
Analysis Batch: 130568

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			11/10/23 18:40	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			11/10/23 18:40	1

Lab Sample ID: MB 860-130568/60
Matrix: Water
Analysis Batch: 130568

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			11/11/23 13:40	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			11/11/23 13:40	1

Lab Sample ID: LCS 860-130568/61
Matrix: Water
Analysis Batch: 130568

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	9.730		mg/L		97	80 - 120
Nitrite as N	10.0	9.307		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-130568/62
Matrix: Water
Analysis Batch: 130568

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	9.750		mg/L		97	80 - 120	0	20
Nitrite as N	10.0	9.325		mg/L		93	80 - 120	0	20

Lab Sample ID: LLCS 860-130568/6
Matrix: Water
Analysis Batch: 130568

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	0.1019		mg/L		102	50 - 150
Nitrite as N	0.100	0.08934	J	mg/L		89	50 - 150

Lab Sample ID: 880-35395-1 MS
Matrix: Water
Analysis Batch: 130568

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	0.0630	J H	10.0	9.735		mg/L		97	80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-35395-1 MS

Matrix: Water

Analysis Batch: 130568

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
Nitrite as N	0.551	H	2.50	2.991		mg/L		98	80 - 120

Lab Sample ID: 880-35395-1 MSD

Matrix: Water

Analysis Batch: 130568

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	0.0630	J H	10.0	9.753		mg/L		97	80 - 120	0	15
Nitrite as N	0.551	H	2.50	3.001		mg/L		98	80 - 120	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-130330/3

Matrix: Water

Analysis Batch: 130330

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			11/09/23 09:52	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/09/23 09:52	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/09/23 09:52	1

Lab Sample ID: LCS 860-130330/4

Matrix: Water

Analysis Batch: 130330

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 860-130330/5

Matrix: Water

Analysis Batch: 130330

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	235.2		mg/L		94	85 - 115	2	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-130363/3

Matrix: Water

Analysis Batch: 130363

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			11/09/23 16:23	1

Lab Sample ID: LCS 860-130363/4

Matrix: Water

Analysis Batch: 130363

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	0.9498		mg/L		95	90 - 110

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: LCSD 860-130363/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 130363											
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Sulfide, Dissolved		1.00	0.9498		mg/L		95	90 - 110	0	20	

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

GC/MS VOA

Analysis Batch: 130187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	8260C	
880-35395-2	MW-2	Total/NA	Water	8260C	
MB 860-130187/9	Method Blank	Total/NA	Water	8260C	
LCS 860-130187/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-130187/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-35395-1 MS	MW-1	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 130308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	8015 NM	
880-35395-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 130512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-35395-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-130512/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-130512/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-130512/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 130726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	8015B NM	130512
880-35395-2	MW-2	Total/NA	Water	8015B NM	130512
MB 860-130512/1-A	Method Blank	Total/NA	Water	8015B NM	130512
LCS 860-130512/2-A	Lab Control Sample	Total/NA	Water	8015B NM	130512
LCSD 860-130512/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	130512

HPLC/IC

Analysis Batch: 130282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	300.0	
880-35395-2	MW-2	Total/NA	Water	300.0	
880-35395-1 MS	MW-1	Total/NA	Water	300.0	
880-35395-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 130283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130283/5	Method Blank	Total/NA	Water	300.0	
MB 860-130283/63	Method Blank	Total/NA	Water	300.0	
LCS 860-130283/64	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-130283/65	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-130283/18	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 130567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	300.0	
880-35395-2	MW-2	Total/NA	Water	300.0	
MB 860-130567/3	Method Blank	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-35395-1

Project/Site: South Hobbs - 03B1417002

HPLC/IC (Continued)

Analysis Batch: 130567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130567/60	Method Blank	Total/NA	Water	300.0	
LCS 860-130567/61	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-130567/62	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-130567/7	Lab Control Sample	Total/NA	Water	300.0	
880-35395-1 MS	MW-1	Total/NA	Water	300.0	
880-35395-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 130568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	300.0	
880-35395-2	MW-2	Total/NA	Water	300.0	
MB 860-130568/3	Method Blank	Total/NA	Water	300.0	
MB 860-130568/60	Method Blank	Total/NA	Water	300.0	
LCS 860-130568/61	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-130568/62	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-130568/6	Lab Control Sample	Total/NA	Water	300.0	
880-35395-1 MS	MW-1	Total/NA	Water	300.0	
880-35395-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 130330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	SM 2320B	
880-35395-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-130330/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-130330/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-130330/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 130350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-35395-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 130363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Dissolved	Water	SM 4500 S2 D	130367
MB 860-130363/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-130363/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-130363/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Filtration Batch: 130367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 130484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35395-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-35395-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Eurofins Midland

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-35395-1

Client Sample ID: MW-1

Date Collected: 11/06/23 10:25

Date Received: 11/07/23 16:23

Lab Sample ID: 880-35395-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	130187	NA	EET HOU	11/09/23 09:00
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	11/13/23 16:12
Total/NA	Prep	8015NM Aq Prep			130512	TH	EET HOU	11/10/23 14:14
Total/NA	Analysis	8015B NM		1	130726	T1S	EET HOU	11/13/23 16:12
Total/NA	Analysis	300.0		1	130282	A1S	EET HOU	11/10/23 03:44
Total/NA	Analysis	300.0		1	130567	WP	EET HOU	11/11/23 17:54
Total/NA	Analysis	300.0		1	130568	WP	EET HOU	11/11/23 17:54
Total/NA	Analysis	SM 2320B		1	130330	KEG	EET HOU	11/09/23 13:20
Total/NA	Analysis	SM 4500 CO2 D		1	130484	AA	EET HOU	11/10/23 11:41
Total/NA	Analysis	SM 4500 H+ B		1	130350	KEG	EET HOU	11/09/23 12:36
Dissolved	Filtration	Filtration			130367	SCI	EET HOU	11/09/23 15:17
Dissolved	Analysis	SM 4500 S2 D		1	130363	SCI	EET HOU	11/09/23 16:25

Client Sample ID: MW-2

Date Collected: 11/06/23 11:55

Date Received: 11/07/23 16:23

Lab Sample ID: 880-35395-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	130187	NA	EET HOU	11/09/23 09:21
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	11/13/23 15:52
Total/NA	Prep	8015NM Aq Prep			130512	TH	EET HOU	11/10/23 14:14
Total/NA	Analysis	8015B NM		1	130726	T1S	EET HOU	11/13/23 15:52
Total/NA	Analysis	300.0		10	130282	A1S	EET HOU	11/10/23 03:35
Total/NA	Analysis	300.0		1	130567	WP	EET HOU	11/11/23 17:17
Total/NA	Analysis	300.0		1	130568	WP	EET HOU	11/11/23 17:17
Total/NA	Analysis	SM 2320B		1	130330	KEG	EET HOU	11/09/23 13:35
Total/NA	Analysis	SM 4500 CO2 D		1	130484	AA	EET HOU	11/10/23 11:41
Total/NA	Analysis	SM 4500 H+ B		1	130350	KEG	EET HOU	11/09/23 12:38

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: 880-35395-1

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	T104704215-23-53	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: 880-35395-1

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: 880-35395-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35395-1	MW-1	Water	11/06/23 10:25	11/07/23 16:23
880-35395-2	MW-2	Water	11/06/23 11:55	11/07/23 16:23

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



880-353395 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 (770-449-6800) Tampa, FL (813) 281-1111

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 ☐	

[illegible]

Number of Containers Reduced Carbon Dioxide 4 Reduced Sulfide SW-846 #37 SW-846 #8260 ASTM Method #8015 EPA Method #846 3 SW-846 Method 150.1	TAT starts the day received by the lab if received by 4:30pm

[illegible][illegible]

notice, signature or this document and retain ownership 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 change 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
		11/10/23			
		11/10/23			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-35395-1

Login Number: 35395

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-35395-1

Login Number: 35395

List Number: 2

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 11/08/23 04:11 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?	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	



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/26/2023 10:18:22 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-35903-1

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
11/26/2023 10:18:22 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: 880-35903-1
SDG: Hobbs NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	18
Lab Chronicle	20
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	26

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

Definitions/Glossary

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

Job ID: 880-35903-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-35903-1
SDG: Hobbs NM

Job ID: 880-35903-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-35903-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 11/16/2023 3:08 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 4.4°C

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-131520 recovered outside control limits for the following analytes: Dichloro difluoromethane.

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-131520 recovered above the upper control limit for n-Butylbenzene (20.4%). 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 860-131520/2).

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-131648 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: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-131648 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-131648 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 860-131648 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: Due to the high concentration of Bromide, the matrix spike duplicate (MSD) for analytical batch 860-131648 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-131649 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.

Case Narrative

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

Job ID: 880-35903-1
SDG: Hobbs NM

Job ID: 880-35903-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

Metals

Method 200.7: The following sample was diluted to bring the concentration of target analytes within the calibration range: Levey Well (880-35903-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

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

Client Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-35903-1

Date Collected: 11/16/23 12:05

Matrix: Water

Date Received: 11/16/23 15:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00208		0.00100	0.000460	mg/L		11/17/23 17:33	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		11/17/23 17:33	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		11/17/23 17:33	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		11/17/23 17:33	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		11/17/23 17:33	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		11/17/23 17:33	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		11/17/23 17:33	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		11/17/23 17:33	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		11/17/23 17:33	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		11/17/23 17:33	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		11/17/23 17:33	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		11/17/23 17:33	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		11/17/23 17:33	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		11/17/23 17:33	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		11/17/23 17:33	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		11/17/23 17:33	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		11/17/23 17:33	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		11/17/23 17:33	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		11/17/23 17:33	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		11/17/23 17:33	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		11/17/23 17:33	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		11/17/23 17:33	1
Dichlorodifluoromethane	<0.000785	U *1	0.00100	0.000785	mg/L		11/17/23 17:33	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		11/17/23 17:33	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		11/17/23 17:33	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		11/17/23 17:33	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		11/17/23 17:33	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		11/17/23 17:33	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		11/17/23 17:33	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		11/17/23 17:33	1
Ethylbenzene	0.00691		0.00100	0.000385	mg/L		11/17/23 17:33	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		11/17/23 17:33	1
Isopropylbenzene	0.00351		0.00100	0.000592	mg/L		11/17/23 17:33	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		11/17/23 17:33	1
m,p-Xylenes	0.0287		0.0100	0.00124	mg/L		11/17/23 17:33	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		11/17/23 17:33	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		11/17/23 17:33	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		11/17/23 17:33	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		11/17/23 17:33	1
o-Xylene	0.00440		0.00100	0.000502	mg/L		11/17/23 17:33	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		11/17/23 17:33	1
sec-Butylbenzene	0.000710	J	0.00100	0.000468	mg/L		11/17/23 17:33	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		11/17/23 17:33	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		11/17/23 17:33	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		11/17/23 17:33	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		11/17/23 17:33	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		11/17/23 17:33	1
Toluene	0.0124		0.00100	0.000475	mg/L		11/17/23 17:33	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/17/23 17:33	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 11/16/23 12:05
Date Received: 11/16/23 15:08

Lab Sample ID: 880-35903-1
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			11/17/23 17:33	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			11/17/23 17:33	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			11/17/23 17:33	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			11/17/23 17:33	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			11/17/23 17:33	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			11/17/23 17:33	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			11/17/23 17:33	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			11/17/23 17:33	1
1,2,4-Trimethylbenzene	0.00771		0.00100	0.000417	mg/L			11/17/23 17:33	1
1,3,5-Trimethylbenzene	0.00239		0.00100	0.000411	mg/L			11/17/23 17:33	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			11/17/23 17:33	1
Xylenes, Total	0.0331		0.0100	0.00124	mg/L			11/17/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124					11/17/23 17:33	1
Dibromofluoromethane (Surr)	95		75 - 131					11/17/23 17:33	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144					11/17/23 17:33	1
Toluene-d8 (Surr)	103		80 - 120					11/17/23 17:33	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.425	J	0.500	0.0711	mg/L			11/18/23 09:12	1
Nitrate as N	0.142		0.100	0.0391	mg/L			11/18/23 09:12	1
Chloride	221		0.500	0.250	mg/L			11/18/23 09:12	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			11/18/23 09:12	1
Fluoride	0.299	J	0.500	0.100	mg/L			11/18/23 09:12	1
Sulfate	50.4		0.500	0.200	mg/L			11/18/23 09:12	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	223		10.0	5.76	mg/L		11/20/23 10:28	11/21/23 04:00	50
Magnesium	44.0		0.200	0.0428	mg/L		11/20/23 10:28	11/21/23 03:43	1
Potassium	3.83		0.500	0.0914	mg/L		11/20/23 10:28	11/21/23 03:43	1
Sodium	75.9		0.500	0.152	mg/L		11/20/23 10:28	11/21/23 03:43	1
SiO2	58.0		1.07	0.471	mg/L		11/20/23 10:28	11/21/23 03:43	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-11.3				%			11/19/23 12:16	1
Alkalinity (SM 2320B)	678		4.00	4.00	mg/L			11/17/23 21:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	678		4.00	4.00	mg/L			11/17/23 21:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/17/23 21:05	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/17/23 21:05	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/17/23 21:05	1
Total Dissolved Solids (SM 2540C)	1340		20.0	20.0	mg/L			11/19/23 16:23	1
pH (SM 4500 H+ B)	6.3	HF			SU			11/20/23 13:04	1
Temperature (SM 4500 H+ B)	18.2	HF			Degrees C			11/20/23 13:04	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-35903-1
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)
880-35903-1	Levey Well	103	95	107	103
LCS 860-131520/3	Lab Control Sample	102	99	99	100
LCSD 860-131520/4	Lab Control Sample Dup	100	100	101	99
MB 860-131520/10	Method Blank	101	96	102	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: 880-35903-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-131520/10

Matrix: Water

Analysis Batch: 131520

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			11/17/23 10:36	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/17/23 10:36	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/17/23 10:36	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/17/23 10:36	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/17/23 10:36	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/17/23 10:36	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/17/23 10:36	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/17/23 10:36	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/17/23 10:36	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/17/23 10:36	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/17/23 10:36	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/17/23 10:36	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/17/23 10:36	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/17/23 10:36	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/17/23 10:36	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/17/23 10:36	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/17/23 10:36	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/17/23 10:36	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/17/23 10:36	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/17/23 10:36	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/17/23 10:36	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/17/23 10:36	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/17/23 10:36	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/17/23 10:36	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/17/23 10:36	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/17/23 10:36	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/17/23 10:36	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/17/23 10:36	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/17/23 10:36	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/17/23 10:36	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/17/23 10:36	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/17/23 10:36	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/17/23 10:36	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/17/23 10:36	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/17/23 10:36	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/17/23 10:36	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/17/23 10:36	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/17/23 10:36	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/17/23 10:36	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/17/23 10:36	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/17/23 10:36	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/17/23 10:36	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/17/23 10:36	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/17/23 10:36	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/17/23 10:36	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/17/23 10:36	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/17/23 10:36	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/17/23 10:36	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-131520/10

Matrix: Water

Analysis Batch: 131520

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	<0.000368	U	0.00100	0.000368 mg/L			11/17/23 10:36	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			11/17/23 10:36	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/17/23 10:36	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/17/23 10:36	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/17/23 10:36	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/17/23 10:36	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/17/23 10:36	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/17/23 10:36	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/17/23 10:36	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			11/17/23 10:36	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/17/23 10:36	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/17/23 10:36	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/17/23 10:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124				11/17/23 10:36	1
Dibromofluoromethane (Surr)	96		75 - 131				11/17/23 10:36	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144				11/17/23 10:36	1
Toluene-d8 (Surr)	98		80 - 120				11/17/23 10:36	1

Lab Sample ID: LCS 860-131520/3

Matrix: Water

Analysis Batch: 131520

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	0.05034		mg/L		101	75 - 125
Bromobenzene	0.0500	0.05004		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.05179		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.04768		mg/L		95	75 - 125
Bromoform	0.0500	0.04463		mg/L		89	70 - 130
Bromomethane	0.0500	0.05009		mg/L		100	60 - 140
2-Butanone	0.250	0.2759		mg/L		110	60 - 140
Carbon tetrachloride	0.0500	0.05084		mg/L		102	70 - 130
Chlorobenzene	0.0500	0.05075		mg/L		102	65 - 135
Chloroethane	0.0500	0.04961		mg/L		99	60 - 140
Chloroform	0.0500	0.05073		mg/L		101	70 - 121
Chloromethane	0.0500	0.04476		mg/L		90	60 - 140
2-Chlorotoluene	0.0500	0.05479		mg/L		110	73 - 125
4-Chlorotoluene	0.0500	0.05576		mg/L		112	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04879		mg/L		98	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05113		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.04620		mg/L		92	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04737		mg/L		95	59 - 125
1,2-Dibromoethane	0.0500	0.05203		mg/L		104	73 - 125
1,2-Dichlorobenzene	0.0500	0.05208		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05299		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05194		mg/L		104	75 - 125
Dichlorodifluoromethane	0.0500	0.04904		mg/L		98	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-131520/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 131520							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04920		mg/L		98	70 - 130
1,2-Dichloroethane	0.0500	0.05047		mg/L		101	72 - 130
1,1-Dichloroethene	0.0500	0.05564		mg/L		111	50 - 150
1,2-Dichloropropane	0.0500	0.05126		mg/L		103	74 - 125
1,3-Dichloropropane	0.0500	0.05078		mg/L		102	75 - 125
2,2-Dichloropropane	0.0500	0.05177		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.05847		mg/L		117	75 - 125
Ethylbenzene	0.0500	0.05340		mg/L		107	75 - 125
Hexachlorobutadiene	0.0500	0.05078		mg/L		102	75 - 125
Isopropylbenzene	0.0500	0.05677		mg/L		114	75 - 125
Methylene Chloride	0.0500	0.04456		mg/L		89	71 - 125
m,p-Xylenes	0.0500	0.05514		mg/L		110	75 - 125
MTBE	0.0500	0.04952		mg/L		99	65 - 135
Naphthalene	0.0500	0.05580		mg/L		112	70 - 130
n-Butylbenzene	0.0500	0.06163		mg/L		123	75 - 125
N-Propylbenzene	0.0500	0.05675		mg/L		113	75 - 125
o-Xylene	0.0500	0.05424		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05842		mg/L		117	75 - 125
sec-Butylbenzene	0.0500	0.05989		mg/L		120	75 - 125
Styrene	0.0500	0.05480		mg/L		110	75 - 125
tert-Butylbenzene	0.0500	0.05706		mg/L		114	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04782		mg/L		96	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05264		mg/L		105	74 - 125
Tetrachloroethene	0.0500	0.05576		mg/L		112	71 - 125
Toluene	0.0500	0.05086		mg/L		102	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05229		mg/L		105	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05065		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05123		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05183		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05204		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.05130		mg/L		103	70 - 130
Trichloroethene	0.0500	0.04652		mg/L		93	75 - 135
Trichlorofluoromethane	0.0500	0.05181		mg/L		104	60 - 140
1,2,3-Trichloropropane	0.0500	0.05327		mg/L		107	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05608		mg/L		112	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05535		mg/L		111	60 - 140
Vinyl chloride	0.0500	0.04910		mg/L		98	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	102		74 - 124				
Dibromofluoromethane (Surr)	99		75 - 131				
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				
Toluene-d8 (Surr)	100		80 - 120				

QC Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-131520/4

Matrix: Water

Analysis Batch: 131520

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	0.04904		mg/L		98	75 - 125	3	25
Bromobenzene	0.0500	0.04698		mg/L		94	75 - 125	6	25
Bromochloromethane	0.0500	0.05098		mg/L		102	60 - 140	2	25
Bromodichloromethane	0.0500	0.04738		mg/L		95	75 - 125	1	25
Bromoform	0.0500	0.04395		mg/L		88	70 - 130	2	25
Bromomethane	0.0500	0.04666		mg/L		93	60 - 140	7	25
2-Butanone	0.250	0.2773		mg/L		111	60 - 140	0	25
Carbon tetrachloride	0.0500	0.04573		mg/L		91	70 - 130	11	25
Chlorobenzene	0.0500	0.04926		mg/L		99	65 - 135	3	25
Chloroethane	0.0500	0.04644		mg/L		93	60 - 140	7	25
Chloroform	0.0500	0.05035		mg/L		101	70 - 121	1	25
Chloromethane	0.0500	0.04086		mg/L		82	60 - 140	9	25
2-Chlorotoluene	0.0500	0.05030		mg/L		101	73 - 125	9	25
4-Chlorotoluene	0.0500	0.05060		mg/L		101	74 - 125	10	25
cis-1,2-Dichloroethene	0.0500	0.04862		mg/L		97	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.05144		mg/L		103	74 - 125	1	25
Dibromochloromethane	0.0500	0.04532		mg/L		91	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04373		mg/L		87	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.05103		mg/L		102	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04804		mg/L		96	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.04911		mg/L		98	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.04774		mg/L		95	75 - 125	8	25
Dichlorodifluoromethane	0.0500	0.03621	*1	mg/L		72	50 - 150	30	25
1,1-Dichloroethane	0.0500	0.04862		mg/L		97	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.05085		mg/L		102	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04832		mg/L		97	50 - 150	14	25
1,2-Dichloropropane	0.0500	0.05120		mg/L		102	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.05029		mg/L		101	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04913		mg/L		98	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.05282		mg/L		106	75 - 125	10	25
Ethylbenzene	0.0500	0.05109		mg/L		102	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.04573		mg/L		91	75 - 125	10	25
Isopropylbenzene	0.0500	0.05300		mg/L		106	75 - 125	7	25
Methylene Chloride	0.0500	0.04361		mg/L		87	71 - 125	2	25
m,p-Xylenes	0.0500	0.05293		mg/L		106	75 - 125	4	25
MTBE	0.0500	0.04909		mg/L		98	65 - 135	1	25
Naphthalene	0.0500	0.05262		mg/L		105	70 - 130	6	25
n-Butylbenzene	0.0500	0.05370		mg/L		107	75 - 125	14	25
N-Propylbenzene	0.0500	0.05068		mg/L		101	75 - 125	11	25
o-Xylene	0.0500	0.05218		mg/L		104	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05221		mg/L		104	75 - 125	11	25
sec-Butylbenzene	0.0500	0.05204		mg/L		104	75 - 125	14	25
Styrene	0.0500	0.05304		mg/L		106	75 - 125	3	25
tert-Butylbenzene	0.0500	0.05020		mg/L		100	75 - 125	13	25
1,1,1,2-Tetrachloroethane	0.0500	0.04591		mg/L		92	72 - 125	4	25
1,1,1,2,2-Tetrachloroethane	0.0500	0.05022		mg/L		100	74 - 125	5	25
Tetrachloroethene	0.0500	0.05029		mg/L		101	71 - 125	10	25
Toluene	0.0500	0.04931		mg/L		99	70 - 130	3	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-131520/4				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 131520										
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD	
							Limits			
trans-1,2-Dichloroethene	0.0500	0.04924		mg/L		98	75 - 125	6	25	
trans-1,3-Dichloropropene	0.0500	0.04980		mg/L		100	66 - 125	2	25	
1,2,3-Trichlorobenzene	0.0500	0.04767		mg/L		95	75 - 137	7	25	
1,2,4-Trichlorobenzene	0.0500	0.04775		mg/L		96	75 - 135	8	25	
1,1,1-Trichloroethane	0.0500	0.04892		mg/L		98	70 - 130	6	25	
1,1,2-Trichloroethane	0.0500	0.05043		mg/L		101	70 - 130	2	25	
Trichloroethene	0.0500	0.04457		mg/L		89	75 - 135	4	25	
Trichlorofluoromethane	0.0500	0.04462		mg/L		89	60 - 140	15	25	
1,2,3-Trichloropropane	0.0500	0.05038		mg/L		101	75 - 125	6	25	
1,2,4-Trimethylbenzene	0.0500	0.05138		mg/L		103	75 - 125	9	25	
1,3,5-Trimethylbenzene	0.0500	0.04998		mg/L		100	60 - 140	10	25	
Vinyl chloride	0.0500	0.04376		mg/L		88	60 - 140	11	25	
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	100		74 - 124							
Dibromofluoromethane (Surr)	100		75 - 131							
1,2-Dichloroethane-d4 (Surr)	101		63 - 144							
Toluene-d8 (Surr)	99		80 - 120							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-131648/13

Matrix: Water

Analysis Batch: 131648

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			11/17/23 21:23	1
Chloride	<0.250	U	0.500	0.250 mg/L			11/17/23 21:23	1
Fluoride	<0.100	U	0.500	0.100 mg/L			11/17/23 21:23	1
Sulfate	<0.200	U	0.500	0.200 mg/L			11/17/23 21:23	1

Lab Sample ID: LCS 860-131648/14

Matrix: Water

Analysis Batch: 131648

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	9.666		mg/L		97	90 - 110
Chloride	10.0	9.321		mg/L		93	90 - 110
Fluoride	10.0	10.46		mg/L		105	90 - 110
Sulfate	10.0	9.583		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-131648/15

Matrix: Water

Analysis Batch: 131648

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	9.692		mg/L		97	90 - 110	0	20
Chloride	10.0	9.314		mg/L		93	90 - 110	0	20
Fluoride	10.0	10.48		mg/L		105	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-131648/15

Matrix: Water

Analysis Batch: 131648

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	9.607		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-131648/16

Matrix: Water

Analysis Batch: 131648

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	0.5085		mg/L		102	50 - 150		
Chloride	0.500	0.5106		mg/L		102	50 - 150		
Fluoride	0.500	0.4834	J	mg/L		97	50 - 150		
Sulfate	0.500	0.4574	J	mg/L		91	50 - 150		

Lab Sample ID: MB 860-131649/13

Matrix: Water

Analysis Batch: 131649

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			11/17/23 21:23	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/17/23 21:23	1

Lab Sample ID: LCS 860-131649/14

Matrix: Water

Analysis Batch: 131649

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	10.08		mg/L		101	80 - 120		
Nitrite as N	10.0	9.876		mg/L		99	80 - 120		

Lab Sample ID: LCSD 860-131649/15

Matrix: Water

Analysis Batch: 131649

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	10.09		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	9.873		mg/L		99	80 - 120	0	20

Lab Sample ID: LLCS 860-131649/17

Matrix: Water

Analysis Batch: 131649

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	0.1183		mg/L		118	50 - 150		
Nitrite as N	0.100	0.1053		mg/L		105	50 - 150		

Eurofins Midland

QC Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-131875/1-A

Matrix: Water

Analysis Batch: 132126

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 131875

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		11/20/23 10:28	11/21/23 02:53	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		11/20/23 10:28	11/21/23 02:53	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		11/20/23 10:28	11/21/23 02:53	1
Sodium	<0.152	U	0.500	0.152 mg/L		11/20/23 10:28	11/21/23 02:53	1
SiO2	<0.471	U	1.07	0.471 mg/L		11/20/23 10:28	11/21/23 02:53	1

Lab Sample ID: LCS 860-131875/2-A

Matrix: Water

Analysis Batch: 132126

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 131875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	23.10		mg/L		92	85 - 115
Magnesium	25.0	23.80		mg/L		95	85 - 115
Potassium	10.0	9.710		mg/L		97	85 - 115
Sodium	25.0	24.40		mg/L		98	85 - 115
SiO2	21.4	21.19		mg/L		99	85 - 115

Lab Sample ID: LCSD 860-131875/3-A

Matrix: Water

Analysis Batch: 132126

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 131875

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	23.10		mg/L		92	85 - 115	0	20
Magnesium	25.0	23.90		mg/L		96	85 - 115	0	20
Potassium	10.0	9.770		mg/L		98	85 - 115	1	20
Sodium	25.0	24.40		mg/L		98	85 - 115	0	20
SiO2	21.4	21.19		mg/L		99	85 - 115	0	20

Lab Sample ID: LLCS 860-131875/4-A

Matrix: Water

Analysis Batch: 132126

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 131875

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1970	J	mg/L		99	50 - 150
Magnesium	0.200	0.2030		mg/L		102	50 - 150
Potassium	0.500	0.5460		mg/L		109	50 - 150
Sodium	0.500	0.6750		mg/L		135	50 - 150
SiO2	1.07	1.115		mg/L		104	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-131721/3

Matrix: Water

Analysis Batch: 131721

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			11/17/23 16:46	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/17/23 16:46	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/17/23 16:46	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			11/17/23 16:46	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-35903-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-131721/3

Matrix: Water

Analysis Batch: 131721

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			11/17/23 16:46	1

Lab Sample ID: LCS 860-131721/4

Matrix: Water

Analysis Batch: 131721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	257.7		mg/L		103	85 - 115

Lab Sample ID: LCSD 860-131721/5

Matrix: Water

Analysis Batch: 131721

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	255.0		mg/L		102	85 - 115	1	20

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

Lab Sample ID: MB 860-131765/1

Matrix: Water

Analysis Batch: 131765

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			11/19/23 16:23	1

Lab Sample ID: LCS 860-131765/2

Matrix: Water

Analysis Batch: 131765

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	1112		mg/L		111	80 - 120

Lab Sample ID: LCSD 860-131765/3

Matrix: Water

Analysis Batch: 131765

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	1021		mg/L		102	80 - 120	9	10

Lab Sample ID: LLCS 860-131765/26

Matrix: Water

Analysis Batch: 131765

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		70	50 - 150

Eurofins Midland

QC Association Summary

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

Job ID: 880-35903-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 131520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total/NA	Water	8260C	
MB 860-131520/10	Method Blank	Total/NA	Water	8260C	
LCS 860-131520/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-131520/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 131648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total/NA	Water	300.0	
MB 860-131648/13	Method Blank	Total/NA	Water	300.0	
LCS 860-131648/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-131648/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-131648/16	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 131649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total/NA	Water	300.0	
MB 860-131649/13	Method Blank	Total/NA	Water	300.0	
LCS 860-131649/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-131649/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-131649/17	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 131875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-131875/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-131875/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-131875/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-131875/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 132126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	131875
880-35903-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	131875
MB 860-131875/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	131875
LCS 860-131875/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	131875
LCSD 860-131875/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	131875
LLCS 860-131875/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	131875

General Chemistry

Analysis Batch: 127324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 131721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-131721/3	Method Blank	Total/NA	Water	SM 2320B	

Eurofins Midland

QC Association Summary

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

Job ID: 880-35903-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 131721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-131721/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-131721/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 131765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-131765/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-131765/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-131765/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-131765/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 131925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35903-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 880-35903-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-35903-1

Date Collected: 11/16/23 12:05

Matrix: Water

Date Received: 11/16/23 15:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	131520	NA	EET HOU	11/17/23 17:33
Total/NA	Analysis	300.0		1	131648	RBNS	EET HOU	11/18/23 09:12
Total/NA	Analysis	300.0		1	131649	RBNS	EET HOU	11/18/23 09:12
Total Recoverable	Prep	200.7			131875	AGR	EET HOU	11/20/23 10:28
Total Recoverable	Analysis	200.7 Rev 4.4		1	132126	DP	EET HOU	11/21/23 03:43
Total Recoverable	Prep	200.7			131875	AGR	EET HOU	11/20/23 10:28
Total Recoverable	Analysis	200.7 Rev 4.4		50	132126	DP	EET HOU	11/21/23 04:00
Total/NA	Analysis	SM 1030E		1	127324	MC	EET HOU	11/19/23 12:16
Total/NA	Analysis	SM 2320B		1	131721	KEG	EET HOU	11/17/23 21:05
Total/NA	Analysis	SM 2540C		1	131765	SA	EET HOU	11/19/23 16:23
Total/NA	Analysis	SM 4500 H+ B		1	131925	KEG	EET HOU	11/20/23 13:04

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: 880-35903-1
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	T104704215-23-53	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: 880-35903-1
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: 880-35903-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35903-1	Levey Well	Water	11/16/23 12:05	11/16/23 15:08

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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
Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa FL (813-620-2000)

Worl



880-35903 Chain of Custody

WWW

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

ANALYSIS REQUEST				Turn Around		Work Order Notes	
Project Name:	Levey Well	Hobbs NM		Routine ☐			
Project Number:	03B1417001			Rush 24 Hr			
P.O. Number:	03B1417001			Due Date			
Sampler's Name:	Shane Diller						
SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice	Yes ☐ No ☒		
Temperature (°C):		4.2/4.4		Thermometer ID			
Received Intact:		Yes ☒ No ☐		Correction Factor	1-20		
Cooler Custody Seals:		Yes ☐ No ☒		Total Containers			
Sample Custody Seals:		Yes ☐ No ☒					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth			
Levey Well	GW	11-16-23	1205	—			
ANALYSIS REQUEST Number of Containers: 7 VOCs: ☒ Anions: F, Cl, SO4, B ☒ Cations: Ca, K, Mg, Na, Si ☒ pH: ☒ Alkalinity: ☒ TDS: ☒							
					TAT starts the day received by the lab, if received by 4 30pm		
					Sample Comments	24 Hr	

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Cu	Co	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	Cu	Co	Pb	Mg	Mn	Mo	Ni	K	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
<i>[Signature]</i>	<i>[Signature]</i>	11/16/23			
		1508			

Revised Date 05/14/18 Rev 2018.1

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: 880-35903-1

SDG Number: Hobbs NM

Login Number: 35903

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: 880-35903-1

SDG Number: Hobbs NM

Login Number: 35903

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/17/23 01:27 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?	True	
There are no discrepancies between the containers received and the COC.	N/A	
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

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/22/2023 2:58:28 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-35904-1

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
11/22/2023 2:58:28 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: 880-35904-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	22
Lab Chronicle	24
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	30

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

Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: 880-35904-1

Job ID: 880-35904-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-35904-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/16/2023 3:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

GC/MS VOA

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-131520 recovered outside control limits for the following analytes: Dichloro difluoromethane.

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-131520 recovered above the upper control limit for n-Butylbenzene (20.4%). 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 860-131520/2).

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-131648 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: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-131648 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-131648 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 860-131648 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 860-131649 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.

Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

Job ID: 880-35904-1 (Continued)

Laboratory: Eurofins Midland (Continued)

General Chemistry

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

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

Client Sample Results

Client: Ensolum

Job ID: 880-35904-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-35904-1

Date Collected: 11/16/23 10:40

Matrix: Water

Date Received: 11/16/23 15:08

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		11/17/23 16:52	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		11/17/23 16:52	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		11/17/23 16:52	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		11/17/23 16:52	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		11/17/23 16:52	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		11/17/23 16:52	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		11/17/23 16:52	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		11/17/23 16:52	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		11/17/23 16:52	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		11/17/23 16:52	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		11/17/23 16:52	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		11/17/23 16:52	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		11/17/23 16:52	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		11/17/23 16:52	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		11/17/23 16:52	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		11/17/23 16:52	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		11/17/23 16:52	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		11/17/23 16:52	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		11/17/23 16:52	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		11/17/23 16:52	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		11/17/23 16:52	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		11/17/23 16:52	1
Dichlorodifluoromethane	<0.000785	U *1	0.00100	0.000785	mg/L		11/17/23 16:52	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		11/17/23 16:52	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		11/17/23 16:52	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		11/17/23 16:52	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		11/17/23 16:52	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		11/17/23 16:52	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		11/17/23 16:52	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		11/17/23 16:52	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		11/17/23 16:52	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		11/17/23 16:52	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		11/17/23 16:52	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		11/17/23 16:52	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		11/17/23 16:52	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		11/17/23 16:52	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		11/17/23 16:52	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		11/17/23 16:52	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		11/17/23 16:52	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		11/17/23 16:52	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		11/17/23 16:52	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		11/17/23 16:52	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		11/17/23 16:52	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		11/17/23 16:52	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		11/17/23 16:52	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		11/17/23 16:52	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		11/17/23 16:52	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		11/17/23 16:52	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/17/23 16:52	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

Client Sample ID: MW-1

Lab Sample ID: 880-35904-1

Date Collected: 11/16/23 10:40

Matrix: Water

Date Received: 11/16/23 15:08

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			11/17/23 16:52	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/17/23 16:52	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/17/23 16:52	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/17/23 16:52	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/17/23 16:52	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/17/23 16:52	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/17/23 16:52	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/17/23 16:52	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			11/17/23 16:52	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/17/23 16:52	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/17/23 16:52	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/17/23 16:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124				11/17/23 16:52	1
Dibromofluoromethane (Surr)	99		75 - 131				11/17/23 16:52	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144				11/17/23 16:52	1
Toluene-d8 (Surr)	100		80 - 120				11/17/23 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.991	U	5.02	0.991 mg/L			11/20/23 15:52	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	<0.991	U	5.02	0.991 mg/L		11/20/23 12:30	11/20/23 15:52	1
Diesel Range Organics (Over C10-C28)	<0.991	U	5.02	0.991 mg/L		11/20/23 12:30	11/20/23 15:52	1
Oil Range Organics (Over C28-C36)	<0.957	U	5.02	0.957 mg/L		11/20/23 12:30	11/20/23 15:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135			11/20/23 12:30	11/20/23 15:52	1
o-Terphenyl	111		70 - 135			11/20/23 12:30	11/20/23 15:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		0.500	0.250 mg/L			11/18/23 06:25	1
Nitrate as N	0.101		0.100	0.0391 mg/L			11/18/23 06:25	1
Fluoride	0.211	J	0.500	0.100 mg/L			11/18/23 06:25	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/18/23 06:25	1
Sulfate	106		0.500	0.200 mg/L			11/18/23 06:25	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	900		4.00	4.00 mg/L			11/17/23 19:31	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	900		4.00	4.00 mg/L			11/17/23 19:31	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/17/23 19:31	1
Carbon dioxide (SM 4500 CO2 D)	793			mg/L			11/16/23 15:25	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

Client Sample ID: MW-1
Date Collected: 11/16/23 10:40
Date Received: 11/16/23 15:08

Lab Sample ID: 880-35904-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	8.85				mg/L			11/16/23 15:25	1
pH (SM 4500 H+ B)	6.6	HF			SU			11/20/23 12:36	1
Temperature (SM 4500 H+ B)	17.4	HF			Degrees C			11/20/23 12:36	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			11/20/23 15:27	1

Client Sample ID: MW-2
Date Collected: 11/16/23 11:45
Date Received: 11/16/23 15:08

Lab Sample ID: 880-35904-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0147		0.00100	0.000460	mg/L			11/17/23 17:13	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L			11/17/23 17:13	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L			11/17/23 17:13	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			11/17/23 17:13	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			11/17/23 17:13	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			11/17/23 17:13	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L			11/17/23 17:13	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			11/17/23 17:13	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L			11/17/23 17:13	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			11/17/23 17:13	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L			11/17/23 17:13	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			11/17/23 17:13	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L			11/17/23 17:13	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L			11/17/23 17:13	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L			11/17/23 17:13	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			11/17/23 17:13	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L			11/17/23 17:13	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L			11/17/23 17:13	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L			11/17/23 17:13	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L			11/17/23 17:13	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L			11/17/23 17:13	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L			11/17/23 17:13	1
Dichlorodifluoromethane	<0.000785	U *1	0.00100	0.000785	mg/L			11/17/23 17:13	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			11/17/23 17:13	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L			11/17/23 17:13	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			11/17/23 17:13	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L			11/17/23 17:13	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L			11/17/23 17:13	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L			11/17/23 17:13	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L			11/17/23 17:13	1
Ethylbenzene	0.0162		0.00100	0.000385	mg/L			11/17/23 17:13	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L			11/17/23 17:13	1
Isopropylbenzene	0.00961		0.00100	0.000592	mg/L			11/17/23 17:13	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			11/17/23 17:13	1
m,p-Xylenes	0.0470		0.0100	0.00124	mg/L			11/17/23 17:13	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-35904-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-35904-2

Date Collected: 11/16/23 11:45

Matrix: Water

Date Received: 11/16/23 15:08

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			11/17/23 17:13	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/17/23 17:13	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/17/23 17:13	1
N-Propylbenzene	0.00272		0.00100	0.000429 mg/L			11/17/23 17:13	1
o-Xylene	0.0137		0.00100	0.000502 mg/L			11/17/23 17:13	1
p-Cymene (p-Isopropyltoluene)	0.000947 J		0.00100	0.000676 mg/L			11/17/23 17:13	1
sec-Butylbenzene	0.00124		0.00100	0.000468 mg/L			11/17/23 17:13	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/17/23 17:13	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/17/23 17:13	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/17/23 17:13	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/17/23 17:13	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/17/23 17:13	1
Toluene	0.00287		0.00100	0.000475 mg/L			11/17/23 17:13	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			11/17/23 17:13	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			11/17/23 17:13	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/17/23 17:13	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/17/23 17:13	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/17/23 17:13	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/17/23 17:13	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/17/23 17:13	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/17/23 17:13	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/17/23 17:13	1
1,2,4-Trimethylbenzene	0.0330		0.00100	0.000417 mg/L			11/17/23 17:13	1
1,3,5-Trimethylbenzene	0.00830		0.00100	0.000411 mg/L			11/17/23 17:13	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/17/23 17:13	1
Xylenes, Total	0.0607		0.0100	0.00124 mg/L			11/17/23 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124		11/17/23 17:13	1
Dibromofluoromethane (Surr)	97		75 - 131		11/17/23 17:13	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/17/23 17:13	1
Toluene-d8 (Surr)	103		80 - 120		11/17/23 17:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.972	U	4.92	0.972 mg/L			11/20/23 16:13	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	<0.972	U	4.92	0.972 mg/L		11/20/23 12:30	11/20/23 16:13	1
Diesel Range Organics (Over C10-C28)	<0.972	U	4.92	0.972 mg/L		11/20/23 12:30	11/20/23 16:13	1
Oil Range Organics (Over C28-C36)	<0.938	U	4.92	0.938 mg/L		11/20/23 12:30	11/20/23 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135	11/20/23 12:30	11/20/23 16:13	1
o-Terphenyl	108		70 - 135	11/20/23 12:30	11/20/23 16:13	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

Client Sample ID: MW-2
Date Collected: 11/16/23 11:45
Date Received: 11/16/23 15:08

Lab Sample ID: 880-35904-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.5		0.500	0.250	mg/L			11/18/23 07:21	1
Nitrate as N	0.258		0.100	0.0391	mg/L			11/18/23 07:21	1
Fluoride	<0.100	U	0.500	0.100	mg/L			11/18/23 07:21	1
Nitrite as N	0.489		0.100	0.0293	mg/L			11/18/23 07:21	1
Sulfate	80.7		0.500	0.200	mg/L			11/18/23 07:21	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1300		4.00	4.00	mg/L			11/17/23 20:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1300		4.00	4.00	mg/L			11/17/23 20:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/17/23 20:01	1
Carbon dioxide (SM 4500 CO2 D)	1140				mg/L			11/16/23 15:25	1
Carbon Dioxide, Free (SM 4500 CO2 D)	12.7				mg/L			11/16/23 15:25	1
pH (SM 4500 H+ B)	6.2	HF			SU			11/20/23 12:33	1
Temperature (SM 4500 H+ B)	17.6	HF			Degrees C			11/20/23 12:33	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

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)
880-35904-1	MW-1	100	99	105	100
880-35904-2	MW-2	104	97	106	103
LCS 860-131520/3	Lab Control Sample	102	99	99	100
LCSD 860-131520/4	Lab Control Sample Dup	100	100	101	99
MB 860-131520/10	Method Blank	101	96	102	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)
880-35904-1	MW-1	90	111
880-35904-2	MW-2	89	108
LCS 860-131947/2-A	Lab Control Sample	104	92
LCS 860-131947/2-A	Lab Control Sample	92	109
LCSD 860-131947/3-A	Lab Control Sample Dup	101	91
LCSD 860-131947/3-A	Lab Control Sample Dup	109	106
MB 860-131947/1-A	Method Blank	86	104
MB 860-131947/1-A	Method Blank	97	117
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-35904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-131520/10

Matrix: Water

Analysis Batch: 131520

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			11/17/23 10:36	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/17/23 10:36	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/17/23 10:36	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/17/23 10:36	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/17/23 10:36	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/17/23 10:36	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/17/23 10:36	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/17/23 10:36	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/17/23 10:36	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/17/23 10:36	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/17/23 10:36	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/17/23 10:36	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/17/23 10:36	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/17/23 10:36	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/17/23 10:36	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/17/23 10:36	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/17/23 10:36	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/17/23 10:36	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/17/23 10:36	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/17/23 10:36	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/17/23 10:36	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/17/23 10:36	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/17/23 10:36	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/17/23 10:36	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/17/23 10:36	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/17/23 10:36	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/17/23 10:36	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/17/23 10:36	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/17/23 10:36	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/17/23 10:36	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/17/23 10:36	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/17/23 10:36	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/17/23 10:36	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/17/23 10:36	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/17/23 10:36	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/17/23 10:36	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/17/23 10:36	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/17/23 10:36	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/17/23 10:36	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/17/23 10:36	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/17/23 10:36	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/17/23 10:36	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/17/23 10:36	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/17/23 10:36	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/17/23 10:36	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/17/23 10:36	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/17/23 10:36	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/17/23 10:36	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-131520/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 131520

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/17/23 10:36	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		11/17/23 10:36	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		11/17/23 10:36	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		11/17/23 10:36	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		11/17/23 10:36	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		11/17/23 10:36	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		11/17/23 10:36	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		11/17/23 10:36	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		11/17/23 10:36	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		11/17/23 10:36	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		11/17/23 10:36	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		11/17/23 10:36	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		11/17/23 10:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		74 - 124		11/17/23 10:36	1
Dibromofluoromethane (Surr)	96		75 - 131		11/17/23 10:36	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/17/23 10:36	1
Toluene-d8 (Surr)	98		80 - 120		11/17/23 10:36	1

Lab Sample ID: LCS 860-131520/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 131520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05034		mg/L		101	75 - 125
Bromobenzene	0.0500	0.05004		mg/L		100	75 - 125
Bromochloromethane	0.0500	0.05179		mg/L		104	60 - 140
Bromodichloromethane	0.0500	0.04768		mg/L		95	75 - 125
Bromoform	0.0500	0.04463		mg/L		89	70 - 130
Bromomethane	0.0500	0.05009		mg/L		100	60 - 140
2-Butanone	0.250	0.2759		mg/L		110	60 - 140
Carbon tetrachloride	0.0500	0.05084		mg/L		102	70 - 130
Chlorobenzene	0.0500	0.05075		mg/L		102	65 - 135
Chloroethane	0.0500	0.04961		mg/L		99	60 - 140
Chloroform	0.0500	0.05073		mg/L		101	70 - 121
Chloromethane	0.0500	0.04476		mg/L		90	60 - 140
2-Chlorotoluene	0.0500	0.05479		mg/L		110	73 - 125
4-Chlorotoluene	0.0500	0.05576		mg/L		112	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04879		mg/L		98	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05113		mg/L		102	74 - 125
Dibromochloromethane	0.0500	0.04620		mg/L		92	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04737		mg/L		95	59 - 125
1,2-Dibromoethane	0.0500	0.05203		mg/L		104	73 - 125
1,2-Dichlorobenzene	0.0500	0.05208		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05299		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05194		mg/L		104	75 - 125
Dichlorodifluoromethane	0.0500	0.04904		mg/L		98	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

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

Lab Sample ID: LCS 860-131520/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 131520							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04920		mg/L		98	70 - 130
1,2-Dichloroethane	0.0500	0.05047		mg/L		101	72 - 130
1,1-Dichloroethene	0.0500	0.05564		mg/L		111	50 - 150
1,2-Dichloropropane	0.0500	0.05126		mg/L		103	74 - 125
1,3-Dichloropropane	0.0500	0.05078		mg/L		102	75 - 125
2,2-Dichloropropane	0.0500	0.05177		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.05847		mg/L		117	75 - 125
Ethylbenzene	0.0500	0.05340		mg/L		107	75 - 125
Hexachlorobutadiene	0.0500	0.05078		mg/L		102	75 - 125
Isopropylbenzene	0.0500	0.05677		mg/L		114	75 - 125
Methylene Chloride	0.0500	0.04456		mg/L		89	71 - 125
m,p-Xylenes	0.0500	0.05514		mg/L		110	75 - 125
MTBE	0.0500	0.04952		mg/L		99	65 - 135
Naphthalene	0.0500	0.05580		mg/L		112	70 - 130
n-Butylbenzene	0.0500	0.06163		mg/L		123	75 - 125
N-Propylbenzene	0.0500	0.05675		mg/L		113	75 - 125
o-Xylene	0.0500	0.05424		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05842		mg/L		117	75 - 125
sec-Butylbenzene	0.0500	0.05989		mg/L		120	75 - 125
Styrene	0.0500	0.05480		mg/L		110	75 - 125
tert-Butylbenzene	0.0500	0.05706		mg/L		114	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04782		mg/L		96	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05264		mg/L		105	74 - 125
Tetrachloroethene	0.0500	0.05576		mg/L		112	71 - 125
Toluene	0.0500	0.05086		mg/L		102	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05229		mg/L		105	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05065		mg/L		101	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05123		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05183		mg/L		104	75 - 135
1,1,1-Trichloroethane	0.0500	0.05204		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.05130		mg/L		103	70 - 130
Trichloroethene	0.0500	0.04652		mg/L		93	75 - 135
Trichlorofluoromethane	0.0500	0.05181		mg/L		104	60 - 140
1,2,3-Trichloropropane	0.0500	0.05327		mg/L		107	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05608		mg/L		112	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05535		mg/L		111	60 - 140
Vinyl chloride	0.0500	0.04910		mg/L		98	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	102		74 - 124				
Dibromofluoromethane (Surr)	99		75 - 131				
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				
Toluene-d8 (Surr)	100		80 - 120				

QC Sample Results

Client: Ensolum

Job ID: 880-35904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-131520/4

Matrix: Water

Analysis Batch: 131520

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	0.04904		mg/L		98	75 - 125	3	25
Bromobenzene	0.0500	0.04698		mg/L		94	75 - 125	6	25
Bromochloromethane	0.0500	0.05098		mg/L		102	60 - 140	2	25
Bromodichloromethane	0.0500	0.04738		mg/L		95	75 - 125	1	25
Bromoform	0.0500	0.04395		mg/L		88	70 - 130	2	25
Bromomethane	0.0500	0.04666		mg/L		93	60 - 140	7	25
2-Butanone	0.250	0.2773		mg/L		111	60 - 140	0	25
Carbon tetrachloride	0.0500	0.04573		mg/L		91	70 - 130	11	25
Chlorobenzene	0.0500	0.04926		mg/L		99	65 - 135	3	25
Chloroethane	0.0500	0.04644		mg/L		93	60 - 140	7	25
Chloroform	0.0500	0.05035		mg/L		101	70 - 121	1	25
Chloromethane	0.0500	0.04086		mg/L		82	60 - 140	9	25
2-Chlorotoluene	0.0500	0.05030		mg/L		101	73 - 125	9	25
4-Chlorotoluene	0.0500	0.05060		mg/L		101	74 - 125	10	25
cis-1,2-Dichloroethene	0.0500	0.04862		mg/L		97	75 - 125	0	25
cis-1,3-Dichloropropene	0.0500	0.05144		mg/L		103	74 - 125	1	25
Dibromochloromethane	0.0500	0.04532		mg/L		91	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04373		mg/L		87	59 - 125	8	25
1,2-Dibromoethane	0.0500	0.05103		mg/L		102	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.04804		mg/L		96	75 - 125	8	25
1,3-Dichlorobenzene	0.0500	0.04911		mg/L		98	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.04774		mg/L		95	75 - 125	8	25
Dichlorodifluoromethane	0.0500	0.03621	*1	mg/L		72	50 - 150	30	25
1,1-Dichloroethane	0.0500	0.04862		mg/L		97	70 - 130	1	25
1,2-Dichloroethane	0.0500	0.05085		mg/L		102	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04832		mg/L		97	50 - 150	14	25
1,2-Dichloropropane	0.0500	0.05120		mg/L		102	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.05029		mg/L		101	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04913		mg/L		98	75 - 125	5	25
1,1-Dichloropropene	0.0500	0.05282		mg/L		106	75 - 125	10	25
Ethylbenzene	0.0500	0.05109		mg/L		102	75 - 125	4	25
Hexachlorobutadiene	0.0500	0.04573		mg/L		91	75 - 125	10	25
Isopropylbenzene	0.0500	0.05300		mg/L		106	75 - 125	7	25
Methylene Chloride	0.0500	0.04361		mg/L		87	71 - 125	2	25
m,p-Xylenes	0.0500	0.05293		mg/L		106	75 - 125	4	25
MTBE	0.0500	0.04909		mg/L		98	65 - 135	1	25
Naphthalene	0.0500	0.05262		mg/L		105	70 - 130	6	25
n-Butylbenzene	0.0500	0.05370		mg/L		107	75 - 125	14	25
N-Propylbenzene	0.0500	0.05068		mg/L		101	75 - 125	11	25
o-Xylene	0.0500	0.05218		mg/L		104	75 - 125	4	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05221		mg/L		104	75 - 125	11	25
sec-Butylbenzene	0.0500	0.05204		mg/L		104	75 - 125	14	25
Styrene	0.0500	0.05304		mg/L		106	75 - 125	3	25
tert-Butylbenzene	0.0500	0.05020		mg/L		100	75 - 125	13	25
1,1,1,2-Tetrachloroethane	0.0500	0.04591		mg/L		92	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.05022		mg/L		100	74 - 125	5	25
Tetrachloroethene	0.0500	0.05029		mg/L		101	71 - 125	10	25
Toluene	0.0500	0.04931		mg/L		99	70 - 130	3	25

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

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

Lab Sample ID: LCSD 860-131520/4
Matrix: Water
Analysis Batch: 131520

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	0.04924		mg/L		98	75 - 125	6	25
trans-1,3-Dichloropropene	0.0500	0.04980		mg/L		100	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.04767		mg/L		95	75 - 137	7	25
1,2,4-Trichlorobenzene	0.0500	0.04775		mg/L		96	75 - 135	8	25
1,1,1-Trichloroethane	0.0500	0.04892		mg/L		98	70 - 130	6	25
1,1,2-Trichloroethane	0.0500	0.05043		mg/L		101	70 - 130	2	25
Trichloroethene	0.0500	0.04457		mg/L		89	75 - 135	4	25
Trichlorofluoromethane	0.0500	0.04462		mg/L		89	60 - 140	15	25
1,2,3-Trichloropropane	0.0500	0.05038		mg/L		101	75 - 125	6	25
1,2,4-Trimethylbenzene	0.0500	0.05138		mg/L		103	75 - 125	9	25
1,3,5-Trimethylbenzene	0.0500	0.04998		mg/L		100	60 - 140	10	25
Vinyl chloride	0.0500	0.04376		mg/L		88	60 - 140	11	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
Toluene-d8 (Surr)	99		80 - 120

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

Lab Sample ID: MB 860-131947/1-A
Matrix: Water
Analysis Batch: 131855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131947

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		11/20/23 12:30	11/20/23 14:28	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		11/20/23 12:30	11/20/23 14:28	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		11/20/23 12:30	11/20/23 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	11/20/23 12:30	11/20/23 14:28	1
o-Terphenyl	117		70 - 135	11/20/23 12:30	11/20/23 14:28	1

Lab Sample ID: MB 860-131947/1-A
Matrix: Water
Analysis Batch: 131849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131947

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		11/20/23 12:30	11/20/23 20:24	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		11/20/23 12:30	11/20/23 20:24	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		11/20/23 12:30	11/20/23 20:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 135	11/20/23 12:30	11/20/23 20:24	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35904-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-131947/1-A

Matrix: Water

Analysis Batch: 131849

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131947

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	104		70 - 135	11/20/23 12:30	11/20/23 20:24	1			

Lab Sample ID: LCS 860-131947/2-A

Matrix: Water

Analysis Batch: 131855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	100	86.69		mg/L		87	70 - 135		
Diesel Range Organics (Over C10-C28)	100	106.5		mg/L		107	70 - 135		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane	92		70 - 135						
<i>o</i> -Terphenyl	109		70 - 135						

Lab Sample ID: LCS 860-131947/2-A

Matrix: Water

Analysis Batch: 131849

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	100	76.54		mg/L		77	70 - 135		
Diesel Range Organics (Over C10-C28)	100	86.52		mg/L		87	70 - 135		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane	104		70 - 135						
<i>o</i> -Terphenyl	92		70 - 135						

Lab Sample ID: LCSD 860-131947/3-A

Matrix: Water

Analysis Batch: 131855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131947

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	100	95.88		mg/L		96	70 - 135	10	35
Diesel Range Organics (Over C10-C28)	100	112.3		mg/L		112	70 - 135	5	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 135						
<i>o</i> -Terphenyl	106		70 - 135						

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

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

Lab Sample ID: LCSD 860-131947/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 131849				Prep Batch: 131947							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			100	79.71		mg/L		80	70 - 135	4	35
Diesel Range Organics (Over C10-C28)			100	89.82		mg/L		90	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	101		70 - 135								
o-Terphenyl	91		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-131648/13				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 131648											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<0.250	U	0.500	0.250 mg/L			11/17/23 21:23	1			
Fluoride	<0.100	U	0.500	0.100 mg/L			11/17/23 21:23	1			
Sulfate	<0.200	U	0.500	0.200 mg/L			11/17/23 21:23	1			

Lab Sample ID: LCS 860-131648/14				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 131648											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.321		mg/L		93	90 - 110		
Fluoride			10.0	10.46		mg/L		105	90 - 110		
Sulfate			10.0	9.583		mg/L		96	90 - 110		

Lab Sample ID: LCSD 860-131648/15				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 131648											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.314		mg/L		93	90 - 110	0	20
Fluoride			10.0	10.48		mg/L		105	90 - 110	0	20
Sulfate			10.0	9.607		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-131648/16				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 131648											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.5106		mg/L		102	50 - 150		
Fluoride			0.500	0.4834	J	mg/L		97	50 - 150		
Sulfate			0.500	0.4574	J	mg/L		91	50 - 150		

QC Sample Results

Client: Ensolum

Job ID: 880-35904-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-131649/13

Matrix: Water

Analysis Batch: 131649

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			11/17/23 21:23	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/17/23 21:23	1

Lab Sample ID: LCS 860-131649/14

Matrix: Water

Analysis Batch: 131649

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	10.08		mg/L		101	80 - 120
Nitrite as N	10.0	9.876		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-131649/15

Matrix: Water

Analysis Batch: 131649

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	10.09		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	9.873		mg/L		99	80 - 120	0	20

Lab Sample ID: LLCS 860-131649/17

Matrix: Water

Analysis Batch: 131649

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	0.1183		mg/L		118	50 - 150
Nitrite as N	0.100	0.1053		mg/L		105	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-131721/3

Matrix: Water

Analysis Batch: 131721

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			11/17/23 16:46	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/17/23 16:46	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/17/23 16:46	1

Lab Sample ID: LCS 860-131721/4

Matrix: Water

Analysis Batch: 131721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	257.7		mg/L		103	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-35904-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-131721/5

Matrix: Water

Analysis Batch: 131721

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	255.0		mg/L		102	85 - 115	1	20

Lab Sample ID: 880-35904-1 DU

Matrix: Water

Analysis Batch: 131721

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	900		883.1		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	900		883.1		mg/L		2	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-35904-2 DU

Matrix: Water

Analysis Batch: 131925

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.2	HF	6.2		SU		0.2	20
Temperature	17.6	HF	17.3		Degrees C		2	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-131931/3

Matrix: Water

Analysis Batch: 131931

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			11/20/23 13:57	1

Lab Sample ID: LCS 860-131931/4

Matrix: Water

Analysis Batch: 131931

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	0.9962		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-131931/5

Matrix: Water

Analysis Batch: 131931

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	0.9947		mg/L		99	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

GC/MS VOA

Analysis Batch: 131520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	8260C	
880-35904-2	MW-2	Total/NA	Water	8260C	
MB 860-131520/10	Method Blank	Total/NA	Water	8260C	
LCS 860-131520/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-131520/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 131849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-131947/1-A	Method Blank	Total/NA	Water	8015B NM	131947
LCS 860-131947/2-A	Lab Control Sample	Total/NA	Water	8015B NM	131947
LCSD 860-131947/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	131947

Analysis Batch: 131855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	8015B NM	131947
880-35904-2	MW-2	Total/NA	Water	8015B NM	131947
MB 860-131947/1-A	Method Blank	Total/NA	Water	8015B NM	131947
LCS 860-131947/2-A	Lab Control Sample	Total/NA	Water	8015B NM	131947
LCSD 860-131947/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	131947

Prep Batch: 131947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-35904-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-131947/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-131947/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-131947/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 132383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	8015 NM	
880-35904-2	MW-2	Total/NA	Water	8015 NM	

HPLC/IC

Analysis Batch: 131648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	300.0	
880-35904-2	MW-2	Total/NA	Water	300.0	
MB 860-131648/13	Method Blank	Total/NA	Water	300.0	
LCS 860-131648/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-131648/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-131648/16	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 131649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	300.0	
880-35904-2	MW-2	Total/NA	Water	300.0	
MB 860-131649/13	Method Blank	Total/NA	Water	300.0	
LCS 860-131649/14	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

HPLC/IC (Continued)

Analysis Batch: 131649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-131649/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-131649/17	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 128201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-35904-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 131721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	SM 2320B	
880-35904-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-131721/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-131721/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-131721/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-35904-1 DU	MW-1	Total/NA	Water	SM 2320B	

Analysis Batch: 131925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-35904-2	MW-2	Total/NA	Water	SM 4500 H+ B	
880-35904-2 DU	MW-2	Total/NA	Water	SM 4500 H+ B	

Filtration Batch: 131929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 131931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35904-1	MW-1	Dissolved	Water	SM 4500 S2 D	131929
MB 860-131931/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-131931/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-131931/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-35904-1

Client Sample ID: MW-1

Date Collected: 11/16/23 10:40

Date Received: 11/16/23 15:08

Lab Sample ID: 880-35904-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	131520	NA	EET HOU	11/17/23 16:52
Total/NA	Analysis	8015 NM		1	132383	SC	EET HOU	11/20/23 15:52
Total/NA	Prep	8015NM Aq Prep			131947	TH	EET HOU	11/20/23 12:30
Total/NA	Analysis	8015B NM		1	131855	T1S	EET HOU	11/20/23 15:52
Total/NA	Analysis	300.0		1	131648	RBNS	EET HOU	11/18/23 06:25
Total/NA	Analysis	300.0		1	131649	RBNS	EET HOU	11/18/23 06:25
Total/NA	Analysis	SM 2320B		1	131721	KEG	EET HOU	11/17/23 19:31
Total/NA	Analysis	SM 4500 CO2 D		1	128201	MC	EET HOU	11/16/23 15:25
Total/NA	Analysis	SM 4500 H+ B		1	131925	KEG	EET HOU	11/20/23 12:36
Dissolved	Filtration	Filtration			131929	SCI	EET HOU	11/20/23 12:54
Dissolved	Analysis	SM 4500 S2 D		1	131931	SCI	EET HOU	11/20/23 15:27

Client Sample ID: MW-2

Date Collected: 11/16/23 11:45

Date Received: 11/16/23 15:08

Lab Sample ID: 880-35904-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	131520	NA	EET HOU	11/17/23 17:13
Total/NA	Analysis	8015 NM		1	132383	SC	EET HOU	11/20/23 16:13
Total/NA	Prep	8015NM Aq Prep			131947	TH	EET HOU	11/20/23 12:30
Total/NA	Analysis	8015B NM		1	131855	T1S	EET HOU	11/20/23 16:13
Total/NA	Analysis	300.0		1	131648	RBNS	EET HOU	11/18/23 07:21
Total/NA	Analysis	300.0		1	131649	RBNS	EET HOU	11/18/23 07:21
Total/NA	Analysis	SM 2320B		1	131721	KEG	EET HOU	11/17/23 20:01
Total/NA	Analysis	SM 4500 CO2 D		1	128201	MC	EET HOU	11/16/23 15:25
Total/NA	Analysis	SM 4500 H+ B		1	131925	KEG	EET HOU	11/20/23 12:33

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: 880-35904-1

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	T104704215-23-53	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: 880-35904-1

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: 880-35904-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35904-1	MW-1	Water	11/16/23 10:40	11/16/23 15:08
880-35904-2	MW-2	Water	11/16/23 11:45	11/16/23 15:08

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

**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: 880-35904-1

Login Number: 35904

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: 880-35904-1

Login Number: 35904

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/17/23 01:25 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?	True	
There are no discrepancies between the containers received and the COC.	N/A	
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

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/30/2023 3:54:03 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-36037-1

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
11/30/2023 3:54:03 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: 880-36037-1
SDG: Hobbs NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	19
Lab Chronicle	21
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	26

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

Definitions/Glossary

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

Job ID: 880-36037-1
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
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.
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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)

Definitions/Glossary

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

Job ID: 880-36037-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
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: 880-36037-1
SDG: Hobbs NM

Job ID: 880-36037-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-36037-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 11/20/2023 4:02 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 9.8°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-132021 recovered above the upper control limit for Trichlorofluoromethane (25.7%). 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 860-132021/2).

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-132157 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-132158 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: The following sample was diluted to bring the concentration of target analytes within the calibration range: Levey Well (880-36037-1). Elevated reporting limits (RLs) are provided.

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

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: 880-36037-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-36037-1

Date Collected: 11/20/23 13:10

Matrix: Water

Date Received: 11/20/23 16:02

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			11/21/23 17:04	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/21/23 17:04	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/21/23 17:04	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/21/23 17:04	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/21/23 17:04	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/21/23 17:04	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/21/23 17:04	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/21/23 17:04	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/21/23 17:04	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/21/23 17:04	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/21/23 17:04	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/21/23 17:04	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/21/23 17:04	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/21/23 17:04	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/21/23 17:04	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/21/23 17:04	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/21/23 17:04	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/21/23 17:04	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/21/23 17:04	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/21/23 17:04	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/21/23 17:04	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/21/23 17:04	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/21/23 17:04	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/21/23 17:04	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/21/23 17:04	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/21/23 17:04	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/21/23 17:04	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/21/23 17:04	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/21/23 17:04	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/21/23 17:04	1
Ethylbenzene	0.000850	J	0.00100	0.000385 mg/L			11/21/23 17:04	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/21/23 17:04	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/21/23 17:04	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/21/23 17:04	1
m,p-Xylenes	0.00362	J	0.0100	0.00124 mg/L			11/21/23 17:04	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/21/23 17:04	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/21/23 17:04	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/21/23 17:04	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/21/23 17:04	1
o-Xylene	0.000604	J	0.00100	0.000502 mg/L			11/21/23 17:04	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/21/23 17:04	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/21/23 17:04	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/21/23 17:04	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/21/23 17:04	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/21/23 17:04	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/21/23 17:04	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/21/23 17:04	1
Toluene	0.000991	J	0.00100	0.000475 mg/L			11/21/23 17:04	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			11/21/23 17:04	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-36037-1
Date Collected: 11/20/23 13:10 Matrix: Water
Date Received: 11/20/23 16:02

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			11/21/23 17:04	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/21/23 17:04	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/21/23 17:04	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/21/23 17:04	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/21/23 17:04	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/21/23 17:04	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/21/23 17:04	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/21/23 17:04	1
1,2,4-Trimethylbenzene	0.00141		0.00100	0.000417 mg/L			11/21/23 17:04	1
1,3,5-Trimethylbenzene	0.000431	J	0.00100	0.000411 mg/L			11/21/23 17:04	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/21/23 17:04	1
Xylenes, Total	0.00422	J	0.0100	0.00124 mg/L			11/21/23 17:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124				11/21/23 17:04	1
Dibromofluoromethane (Surr)	104		75 - 131				11/21/23 17:04	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144				11/21/23 17:04	1
Toluene-d8 (Surr)	98		80 - 120				11/21/23 17:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.826		0.500	0.0711 mg/L			11/22/23 05:05	1
Nitrate as N	0.137		0.100	0.0391 mg/L			11/22/23 05:05	1
Chloride	224		0.500	0.250 mg/L			11/22/23 05:05	1
Nitrite as N	0.970		0.100	0.0293 mg/L			11/22/23 05:05	1
Fluoride	0.747		0.500	0.100 mg/L			11/22/23 05:05	1
Sulfate	43.6		0.500	0.200 mg/L			11/22/23 05:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	194		10.0	5.76 mg/L		11/22/23 11:30	11/27/23 13:44	50
Magnesium	38.8		0.200	0.0428 mg/L		11/22/23 11:30	11/27/23 13:26	1
Potassium	2.80		0.500	0.0914 mg/L		11/22/23 11:30	11/27/23 13:26	1
Sodium	73.4		0.500	0.152 mg/L		11/22/23 11:30	11/27/23 13:26	1
SiO2	62.5		1.07	0.471 mg/L		11/22/23 11:30	11/27/23 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-5.89			%			11/26/23 12:16	1
Alkalinity (SM 2320B)	437		4.00	4.00 mg/L			11/22/23 01:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	437		4.00	4.00 mg/L			11/22/23 01:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/22/23 01:17	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/22/23 01:17	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/22/23 01:17	1
Total Dissolved Solids (SM 2540C)	1030		10.0	10.0 mg/L			11/21/23 10:45	1
pH (SM 4500 H+ B)	7.1	HF		SU			11/22/23 12:42	1
Temperature (SM 4500 H+ B)	13.5	HF		Degrees C			11/22/23 12:42	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-36037-1
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)
880-36037-1	Levey Well	101	104	105	98
LCS 860-132021/3	Lab Control Sample	101	104	99	97
LCSD 860-132021/4	Lab Control Sample Dup	99	106	100	97
MB 860-132021/9	Method Blank	102	105	106	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: 880-36037-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-132021/9

Matrix: Water

Analysis Batch: 132021

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			11/21/23 14:00	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/21/23 14:00	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/21/23 14:00	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/21/23 14:00	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/21/23 14:00	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/21/23 14:00	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/21/23 14:00	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/21/23 14:00	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/21/23 14:00	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/21/23 14:00	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/21/23 14:00	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/21/23 14:00	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/21/23 14:00	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/21/23 14:00	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/21/23 14:00	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/21/23 14:00	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/21/23 14:00	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/21/23 14:00	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/21/23 14:00	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/21/23 14:00	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/21/23 14:00	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/21/23 14:00	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/21/23 14:00	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/21/23 14:00	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/21/23 14:00	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/21/23 14:00	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/21/23 14:00	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/21/23 14:00	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/21/23 14:00	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/21/23 14:00	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/21/23 14:00	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/21/23 14:00	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/21/23 14:00	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/21/23 14:00	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/21/23 14:00	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/21/23 14:00	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/21/23 14:00	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/21/23 14:00	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/21/23 14:00	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/21/23 14:00	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/21/23 14:00	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/21/23 14:00	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/21/23 14:00	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/21/23 14:00	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/21/23 14:00	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/21/23 14:00	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/21/23 14:00	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/21/23 14:00	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-132021/9
Matrix: Water
Analysis Batch: 132021

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/21/23 14:00	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		11/21/23 14:00	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		11/21/23 14:00	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		11/21/23 14:00	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		11/21/23 14:00	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		11/21/23 14:00	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		11/21/23 14:00	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		11/21/23 14:00	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		11/21/23 14:00	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		11/21/23 14:00	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		11/21/23 14:00	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		11/21/23 14:00	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		11/21/23 14:00	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		74 - 124		11/21/23 14:00	1
Dibromofluoromethane (Surr)	105		75 - 131		11/21/23 14:00	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/21/23 14:00	1
Toluene-d8 (Surr)	98		80 - 120		11/21/23 14:00	1

Lab Sample ID: LCS 860-132021/3
Matrix: Water
Analysis Batch: 132021

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.04610		mg/L		92	75 - 125
Bromobenzene	0.0500	0.04842		mg/L		97	75 - 125
Bromochloromethane	0.0500	0.05063		mg/L		101	60 - 140
Bromodichloromethane	0.0500	0.04766		mg/L		95	75 - 125
Bromoform	0.0500	0.04683		mg/L		94	70 - 130
Bromomethane	0.0500	0.04776		mg/L		96	60 - 140
2-Butanone	0.250	0.2687		mg/L		107	60 - 140
Carbon tetrachloride	0.0500	0.04543		mg/L		91	70 - 130
Chlorobenzene	0.0500	0.04630		mg/L		93	65 - 135
Chloroethane	0.0500	0.04353		mg/L		87	60 - 140
Chloroform	0.0500	0.04872		mg/L		97	70 - 121
Chloromethane	0.0500	0.04401		mg/L		88	60 - 140
2-Chlorotoluene	0.0500	0.04706		mg/L		94	73 - 125
4-Chlorotoluene	0.0500	0.04732		mg/L		95	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04803		mg/L		96	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04687		mg/L		94	74 - 125
Dibromochloromethane	0.0500	0.04663		mg/L		93	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05583		mg/L		112	59 - 125
1,2-Dibromoethane	0.0500	0.04910		mg/L		98	73 - 125
1,2-Dichlorobenzene	0.0500	0.04806		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04798		mg/L		96	75 - 125
1,4-Dichlorobenzene	0.0500	0.04809		mg/L		96	75 - 125
Dichlorodifluoromethane	0.0500	0.03869		mg/L		77	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-132021/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 132021							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04728		mg/L		95	70 - 130
1,2-Dichloroethane	0.0500	0.04983		mg/L		100	72 - 130
1,1-Dichloroethene	0.0500	0.04529		mg/L		91	50 - 150
1,2-Dichloropropane	0.0500	0.04745		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.04834		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.04570		mg/L		91	75 - 125
1,1-Dichloropropene	0.0500	0.04870		mg/L		97	75 - 125
Ethylbenzene	0.0500	0.04601		mg/L		92	75 - 125
Hexachlorobutadiene	0.0500	0.05082		mg/L		102	75 - 125
Isopropylbenzene	0.0500	0.04560		mg/L		91	75 - 125
Methylene Chloride	0.0500	0.04793		mg/L		96	71 - 125
m,p-Xylenes	0.0500	0.04541		mg/L		91	75 - 125
MTBE	0.0500	0.04773		mg/L		95	65 - 135
Naphthalene	0.0500	0.05380		mg/L		108	70 - 130
n-Butylbenzene	0.0500	0.04926		mg/L		99	75 - 125
N-Propylbenzene	0.0500	0.04881		mg/L		98	75 - 125
o-Xylene	0.0500	0.04563		mg/L		91	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04719		mg/L		94	75 - 125
sec-Butylbenzene	0.0500	0.04811		mg/L		96	75 - 125
Styrene	0.0500	0.04625		mg/L		93	75 - 125
tert-Butylbenzene	0.0500	0.04719		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04566		mg/L		91	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05038		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.04627		mg/L		93	71 - 125
Toluene	0.0500	0.04558		mg/L		91	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04793		mg/L		96	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04550		mg/L		91	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05179		mg/L		104	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05108		mg/L		102	75 - 135
1,1,1-Trichloroethane	0.0500	0.04630		mg/L		93	70 - 130
1,1,2-Trichloroethane	0.0500	0.04827		mg/L		97	70 - 130
Trichloroethene	0.0500	0.04702		mg/L		94	75 - 135
Trichlorofluoromethane	0.0500	0.05716		mg/L		114	60 - 140
1,2,3-Trichloropropane	0.0500	0.04708		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04693		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04671		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04894		mg/L		98	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		74 - 124				
Dibromofluoromethane (Surr)	104		75 - 131				
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				
Toluene-d8 (Surr)	97		80 - 120				

QC Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-132021/4

Matrix: Water

Analysis Batch: 132021

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	0.04731		mg/L		95	75 - 125	3	25
Bromobenzene	0.0500	0.04897		mg/L		98	75 - 125	1	25
Bromochloromethane	0.0500	0.05206		mg/L		104	60 - 140	3	25
Bromodichloromethane	0.0500	0.04854		mg/L		97	75 - 125	2	25
Bromoform	0.0500	0.04856		mg/L		97	70 - 130	4	25
Bromomethane	0.0500	0.05156		mg/L		103	60 - 140	8	25
2-Butanone	0.250	0.2859		mg/L		114	60 - 140	6	25
Carbon tetrachloride	0.0500	0.04469		mg/L		89	70 - 130	2	25
Chlorobenzene	0.0500	0.04714		mg/L		94	65 - 135	2	25
Chloroethane	0.0500	0.04604		mg/L		92	60 - 140	6	25
Chloroform	0.0500	0.05067		mg/L		101	70 - 121	4	25
Chloromethane	0.0500	0.04610		mg/L		92	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04768		mg/L		95	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04753		mg/L		95	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04919		mg/L		98	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04830		mg/L		97	74 - 125	3	25
Dibromochloromethane	0.0500	0.04786		mg/L		96	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05876		mg/L		118	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.05062		mg/L		101	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.04887		mg/L		98	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04859		mg/L		97	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.04854		mg/L		97	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04036		mg/L		81	50 - 150	4	25
1,1-Dichloroethane	0.0500	0.04973		mg/L		99	70 - 130	5	25
1,2-Dichloroethane	0.0500	0.05081		mg/L		102	72 - 130	2	25
1,1-Dichloroethene	0.0500	0.04823		mg/L		96	50 - 150	6	25
1,2-Dichloropropane	0.0500	0.04908		mg/L		98	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04874		mg/L		97	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04695		mg/L		94	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04890		mg/L		98	75 - 125	0	25
Ethylbenzene	0.0500	0.04681		mg/L		94	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05140		mg/L		103	75 - 125	1	25
Isopropylbenzene	0.0500	0.04637		mg/L		93	75 - 125	2	25
Methylene Chloride	0.0500	0.04904		mg/L		98	71 - 125	2	25
m,p-Xylenes	0.0500	0.04605		mg/L		92	75 - 125	1	25
MTBE	0.0500	0.04936		mg/L		99	65 - 135	3	25
Naphthalene	0.0500	0.05435		mg/L		109	70 - 130	1	25
n-Butylbenzene	0.0500	0.04976		mg/L		100	75 - 125	1	25
N-Propylbenzene	0.0500	0.04791		mg/L		96	75 - 125	2	25
o-Xylene	0.0500	0.04626		mg/L		93	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04781		mg/L		96	75 - 125	1	25
sec-Butylbenzene	0.0500	0.04822		mg/L		96	75 - 125	0	25
Styrene	0.0500	0.04701		mg/L		94	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04759		mg/L		95	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04725		mg/L		94	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05234		mg/L		105	74 - 125	4	25
Tetrachloroethene	0.0500	0.04674		mg/L		93	71 - 125	1	25
Toluene	0.0500	0.04661		mg/L		93	70 - 130	2	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-132021/4
Matrix: Water
Analysis Batch: 132021

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	0.04837		mg/L		97	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.04700		mg/L		94	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05243		mg/L		105	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.05105		mg/L		102	75 - 135	0	25
1,1,1-Trichloroethane	0.0500	0.04817		mg/L		96	70 - 130	4	25
1,1,2-Trichloroethane	0.0500	0.04938		mg/L		99	70 - 130	2	25
Trichloroethene	0.0500	0.04866		mg/L		97	75 - 135	3	25
Trichlorofluoromethane	0.0500	0.06001		mg/L		120	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.04861		mg/L		97	75 - 125	3	25
1,2,4-Trimethylbenzene	0.0500	0.04715		mg/L		94	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.04740		mg/L		95	60 - 140	1	25
Vinyl chloride	0.0500	0.05139		mg/L		103	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	97		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-132157/3
Matrix: Water
Analysis Batch: 132157

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			11/21/23 15:10	1
Chloride	<0.250	U	0.500	0.250 mg/L			11/21/23 15:10	1
Fluoride	<0.100	U	0.500	0.100 mg/L			11/21/23 15:10	1
Sulfate	<0.200	U	0.500	0.200 mg/L			11/21/23 15:10	1

Lab Sample ID: LCS 860-132157/4
Matrix: Water
Analysis Batch: 132157

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	9.388		mg/L		94	90 - 110
Chloride	10.0	9.513		mg/L		95	90 - 110
Fluoride	10.0	9.992		mg/L		100	90 - 110
Sulfate	10.0	9.492		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-132157/5
Matrix: Water
Analysis Batch: 132157

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	9.410		mg/L		94	90 - 110	0	20
Chloride	10.0	9.535		mg/L		95	90 - 110	0	20
Fluoride	10.0	10.02		mg/L		100	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-132157/5

Matrix: Water

Analysis Batch: 132157

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	9.521		mg/L		95	90 - 110	0	20

Lab Sample ID: LLCS 860-132157/7

Matrix: Water

Analysis Batch: 132157

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	0.4793	J	mg/L		96	50 - 150		
Chloride	0.500	0.4417	J	mg/L		88	50 - 150		
Fluoride	0.500	0.3969	J	mg/L		79	50 - 150		
Sulfate	0.500	0.4080	J	mg/L		82	50 - 150		

Lab Sample ID: MB 860-132158/3

Matrix: Water

Analysis Batch: 132158

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			11/21/23 15:10	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/21/23 15:10	1

Lab Sample ID: LCS 860-132158/4

Matrix: Water

Analysis Batch: 132158

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	9.489		mg/L		95	80 - 120		
Nitrite as N	10.0	9.778		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-132158/5

Matrix: Water

Analysis Batch: 132158

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	9.501		mg/L		95	80 - 120	0	20
Nitrite as N	10.0	9.823		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-132158/6

Matrix: Water

Analysis Batch: 132158

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	0.1048		mg/L		105	50 - 150		
Nitrite as N	0.100	0.09011	J	mg/L		90	50 - 150		

Eurofins Midland

QC Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-132333/1-A

Matrix: Water

Analysis Batch: 132822

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 132333

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		11/22/23 11:30	11/27/23 13:16	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		11/22/23 11:30	11/27/23 13:16	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		11/22/23 11:30	11/27/23 13:16	1
Sodium	<0.152	U	0.500	0.152 mg/L		11/22/23 11:30	11/27/23 13:16	1
SiO2	<0.471	U	1.07	0.471 mg/L		11/22/23 11:30	11/27/23 13:16	1

Lab Sample ID: LCS 860-132333/2-A

Matrix: Water

Analysis Batch: 132822

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 132333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	22.70		mg/L		91	85 - 115
Magnesium	25.0	22.10		mg/L		88	85 - 115
Potassium	10.0	9.230		mg/L		92	85 - 115
Sodium	25.0	23.20		mg/L		93	85 - 115
SiO2	21.4	19.43		mg/L		91	85 - 115

Lab Sample ID: LCSD 860-132333/3-A

Matrix: Water

Analysis Batch: 132822

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 132333

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	22.60		mg/L		90	85 - 115	0	20
Magnesium	25.0	21.80		mg/L		87	85 - 115	1	20
Potassium	10.0	9.220		mg/L		92	85 - 115	0	20
Sodium	25.0	23.20		mg/L		93	85 - 115	0	20
SiO2	21.4	19.52		mg/L		91	85 - 115	0	20

Lab Sample ID: LLCS 860-132333/4-A

Matrix: Water

Analysis Batch: 132822

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 132333

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1350	J	mg/L		68	50 - 150
Magnesium	0.200	0.1930	J	mg/L		97	50 - 150
Potassium	0.500	0.3820	J	mg/L		76	50 - 150
Sodium	0.500	0.4260	J	mg/L		85	50 - 150
SiO2	1.07	1.046	J	mg/L		98	50 - 150

Lab Sample ID: 880-36037-1 MS

Matrix: Water

Analysis Batch: 132822

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 132333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	191	E	25.0	209.0	E 4	mg/L		72	70 - 130
Magnesium	38.8		25.0	60.00		mg/L		85	70 - 130
Potassium	2.80		10.0	12.90		mg/L		101	70 - 130
Sodium	73.4		25.0	95.40		mg/L		88	70 - 130
SiO2	62.5		21.4	81.11		mg/L		87	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

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

Lab Sample ID: 880-36037-1 MSD

Matrix: Water

Analysis Batch: 132822

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 132333

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	191	E	25.0	212.0	E 4	mg/L		84	70 - 130	1	20
Magnesium	38.8		25.0	60.60		mg/L		87	70 - 130	1	20
Potassium	2.80		10.0	13.00		mg/L		102	70 - 130	1	20
Sodium	73.4		25.0	97.10		mg/L		95	70 - 130	2	20
SiO2	62.5		21.4	82.60		mg/L		94	70 - 130	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-132283/34

Matrix: Water

Analysis Batch: 132283

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	4.00 mg/L			11/21/23 21:16	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/21/23 21:16	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/21/23 21:16	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			11/21/23 21:16	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			11/21/23 21:16	1

Lab Sample ID: LCS 860-132283/35

Matrix: Water

Analysis Batch: 132283

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
							Limits
Alkalinity	250	258.1		mg/L		103	85 - 115

Lab Sample ID: LCSD 860-132283/36

Matrix: Water

Analysis Batch: 132283

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
							Limits		
Alkalinity	250	258.1		mg/L		103	85 - 115	0	20

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

Lab Sample ID: MB 860-132087/1

Matrix: Water

Analysis Batch: 132087

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			11/21/23 10:45	1

Lab Sample ID: LCS 860-132087/2

Matrix: Water

Analysis Batch: 132087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-36037-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-132087/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 132087											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	990.0		mg/L		99	80 - 120	2	10

Lab Sample ID: LLCS 860-132087/26				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 132087											
Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	<5.00	U	mg/L		70	50 - 150		

Lab Sample ID: 880-36037-1 DU				Client Sample ID: Levey Well							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 132087											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1030			1009		mg/L				2	10

QC Association Summary

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

Job ID: 880-36037-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 132021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total/NA	Water	8260C	
MB 860-132021/9	Method Blank	Total/NA	Water	8260C	
LCS 860-132021/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-132021/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 132157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total/NA	Water	300.0	
MB 860-132157/3	Method Blank	Total/NA	Water	300.0	
LCS 860-132157/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-132157/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-132157/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 132158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total/NA	Water	300.0	
MB 860-132158/3	Method Blank	Total/NA	Water	300.0	
LCS 860-132158/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-132158/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-132158/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 132333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-132333/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-132333/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-132333/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-132333/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-36037-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-36037-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 132822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	132333
880-36037-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	132333
MB 860-132333/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	132333
LCS 860-132333/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	132333
LCSD 860-132333/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	132333
LLCS 860-132333/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	132333
880-36037-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	132333
880-36037-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	132333

General Chemistry

Analysis Batch: 127324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total/NA	Water	SM 1030E	

Eurofins Midland

QC Association Summary

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

Job ID: 880-36037-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 132087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-132087/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-132087/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-132087/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-132087/26	Lab Control Sample	Total/NA	Water	SM 2540C	
880-36037-1 DU	Levey Well	Total/NA	Water	SM 2540C	

Analysis Batch: 132283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-132283/34	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-132283/35	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-132283/36	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 132363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36037-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 880-36037-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-36037-1
Date Collected: 11/20/23 13:10 Matrix: Water
Date Received: 11/20/23 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	132021	NA	EET HOU	11/21/23 17:04
Total/NA	Analysis	300.0		1	132157	A1S	EET HOU	11/22/23 05:05
Total/NA	Analysis	300.0		1	132158	A1S	EET HOU	11/22/23 05:05
Total Recoverable	Prep	200.7			132333	MD	EET HOU	11/22/23 11:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	132822	DP	EET HOU	11/27/23 13:26
Total Recoverable	Prep	200.7			132333	MD	EET HOU	11/22/23 11:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	132822	DP	EET HOU	11/27/23 13:44
Total/NA	Analysis	SM 1030E		1	127324	MC	EET HOU	11/26/23 12:16
Total/NA	Analysis	SM 2320B		1	132283	KEG	EET HOU	11/22/23 01:17
Total/NA	Analysis	SM 2540C		1	132087	SA	EET HOU	11/21/23 10:45
Total/NA	Analysis	SM 4500 H+ B		1	132363	KEG	EET HOU	11/22/23 12:42

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: 880-36037-1
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	T104704215-23-53	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: 880-36037-1
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: 880-36037-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36037-1	Levey Well	Water	11/20/23 13:10	11/20/23 16:02

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: 36037

www.xenco.com Page 1 of 1

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

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

ANALYSIS REQUEST				Turn Around		Work Order Notes	
Project Name:	Levey Well	Hobbs NM		Routine ☐	Rush 24 hr ☐		
Project Number:	03B1417001						
P.O. Number:	03B1417001						
Sampler's Name:	Shane Diller						
SAMPLE RECEIPT Temperature (°C): 9.8 Received Intact: Yes No Cooler Custody Seals: Yes No N/A Sample Custody Seals: Yes No N/A Thermometer ID: 11-20-23 Correction Factor: 1.2 Total Containers: 7							
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth			
Levey Well	GW	11-20-23	1310	—			
VOCs: ☒ Antions: F, Cl, SO4, B ☒ Cations: Ca, K, Mg, Na, Si ☒ pH ☒ Alkalinity ☒ TDS ☒							
Number of Containers: 7							
TAT starts the day received by the lab, if received by 4 30pm							
Sample Comments: 24hr							



880-36037 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 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. [Signature]	[Signature]	11/20/23			
3. [Signature]					
5. [Signature]		11/20/23			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-36037-1

SDG Number: Hobbs NM

Login Number: 36037

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	Received same day of collection; chilling process has begun.
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: 880-36037-1

SDG Number: Hobbs NM

Login Number: 36037

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/21/23 12:52 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?	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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/27/2023 1:38:41 PM Revision 1

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-36038-1

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



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

Generated
11/27/2023 1:38:41 PM
Revision 1

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Laboratory Job ID: 880-36038-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	20
Lab Chronicle	22
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

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

Definitions/Glossary

Client: Ensolum

Job ID: 880-36038-1

Project/Site: South Hobbs - 03B1417002

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
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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

Eurofins Midland

Case Narrative

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Job ID: 880-36038-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-36038-1**REVISION

The report being provided is a revision of the original report sent on 11/27/2023. The report (revision 1) is being revised due to Samples were flipped when labeling. Sample MW-2 is really MW-1.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/20/2023 4:02 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 9.8°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-132021 recovered above the upper control limit for Trichlorofluoromethane (25.7%). 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 860-132021/2).

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-132157 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-132158 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

Method SM4500_S2_D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-132328 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.

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Client Sample ID: MW-2

Lab Sample ID: 880-36038-1

Date Collected: 11/20/23 12:05

Matrix: Water

Date Received: 11/20/23 16:02

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0161		0.00100	0.000460	mg/L		11/21/23 16:23	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		11/21/23 16:23	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		11/21/23 16:23	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		11/21/23 16:23	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		11/21/23 16:23	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		11/21/23 16:23	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		11/21/23 16:23	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		11/21/23 16:23	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		11/21/23 16:23	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		11/21/23 16:23	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		11/21/23 16:23	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		11/21/23 16:23	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		11/21/23 16:23	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		11/21/23 16:23	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		11/21/23 16:23	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		11/21/23 16:23	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		11/21/23 16:23	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		11/21/23 16:23	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		11/21/23 16:23	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		11/21/23 16:23	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		11/21/23 16:23	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		11/21/23 16:23	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		11/21/23 16:23	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		11/21/23 16:23	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		11/21/23 16:23	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		11/21/23 16:23	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		11/21/23 16:23	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		11/21/23 16:23	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		11/21/23 16:23	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		11/21/23 16:23	1
Ethylbenzene	0.0284		0.00100	0.000385	mg/L		11/21/23 16:23	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		11/21/23 16:23	1
Isopropylbenzene	0.0113		0.00100	0.000592	mg/L		11/21/23 16:23	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		11/21/23 16:23	1
m,p-Xylenes	0.103		0.0100	0.00124	mg/L		11/21/23 16:23	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		11/21/23 16:23	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		11/21/23 16:23	1
n-Butylbenzene	0.000995	J	0.00100	0.000510	mg/L		11/21/23 16:23	1
N-Propylbenzene	0.00422		0.00100	0.000429	mg/L		11/21/23 16:23	1
o-Xylene	0.0214		0.00100	0.000502	mg/L		11/21/23 16:23	1
p-Cymene (p-Isopropyltoluene)	0.00103		0.00100	0.000676	mg/L		11/21/23 16:23	1
sec-Butylbenzene	0.00145		0.00100	0.000468	mg/L		11/21/23 16:23	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		11/21/23 16:23	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		11/21/23 16:23	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		11/21/23 16:23	1
1,1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		11/21/23 16:23	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		11/21/23 16:23	1
Toluene	0.0198		0.00100	0.000475	mg/L		11/21/23 16:23	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/21/23 16:23	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Client Sample ID: MW-2

Lab Sample ID: 880-36038-1

Date Collected: 11/20/23 12:05

Matrix: Water

Date Received: 11/20/23 16:02

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			11/21/23 16:23	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/21/23 16:23	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/21/23 16:23	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/21/23 16:23	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/21/23 16:23	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/21/23 16:23	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/21/23 16:23	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/21/23 16:23	1
1,2,4-Trimethylbenzene	0.0327		0.00100	0.000417 mg/L			11/21/23 16:23	1
1,3,5-Trimethylbenzene	0.00922		0.00100	0.000411 mg/L			11/21/23 16:23	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/21/23 16:23	1
Xylenes, Total	0.124		0.0100	0.00124 mg/L			11/21/23 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		11/21/23 16:23	1
Dibromofluoromethane (Surr)	104		75 - 131		11/21/23 16:23	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		11/21/23 16:23	1
Toluene-d8 (Surr)	98		80 - 120		11/21/23 16:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2.01	J	5.03	0.995 mg/L			11/21/23 22:01	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	2.01	J	5.03	0.995 mg/L		11/21/23 15:29	11/21/23 22:01	1
Diesel Range Organics (Over C10-C28)	<0.995	U	5.03	0.995 mg/L		11/21/23 15:29	11/21/23 22:01	1
Oil Range Organics (Over C28-C36)	<0.960	U	5.03	0.960 mg/L		11/21/23 15:29	11/21/23 22:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135			11/21/23 15:29	11/21/23 22:01	1
o-Terphenyl	98		70 - 135			11/21/23 15:29	11/21/23 22:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		0.500	0.250 mg/L			11/22/23 04:37	1
Nitrate as N	0.848		0.100	0.0391 mg/L			11/22/23 04:37	1
Fluoride	<0.100	U	0.500	0.100 mg/L			11/22/23 04:37	1
Nitrite as N	1.06		0.100	0.0293 mg/L			11/22/23 04:37	1
Sulfate	95.2		0.500	0.200 mg/L			11/22/23 04:37	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1470		4.00	4.00 mg/L			11/22/23 00:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1470		4.00	4.00 mg/L			11/22/23 00:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/22/23 00:53	1
Carbon dioxide (SM 4500 CO2 D)	1290			mg/L			11/26/23 17:12	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Client Sample ID: MW-2

Lab Sample ID: 880-36038-1

Date Collected: 11/20/23 12:05

Matrix: Water

Date Received: 11/20/23 16:02

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	11.5			mg/L			11/26/23 17:12	1
pH (SM 4500 H+ B)	6.5	HF		SU			11/22/23 12:44	1
Temperature (SM 4500 H+ B)	13.2	HF		Degrees C			11/22/23 12:44	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			11/22/23 11:14	1

Client Sample ID: MW-1

Lab Sample ID: 880-36038-2

Date Collected: 11/20/23 10:35

Matrix: Water

Date Received: 11/20/23 16:02

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			11/21/23 16:43	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/21/23 16:43	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/21/23 16:43	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/21/23 16:43	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/21/23 16:43	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/21/23 16:43	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/21/23 16:43	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/21/23 16:43	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/21/23 16:43	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/21/23 16:43	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/21/23 16:43	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/21/23 16:43	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/21/23 16:43	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/21/23 16:43	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/21/23 16:43	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/21/23 16:43	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/21/23 16:43	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/21/23 16:43	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/21/23 16:43	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/21/23 16:43	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/21/23 16:43	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/21/23 16:43	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/21/23 16:43	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/21/23 16:43	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/21/23 16:43	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/21/23 16:43	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/21/23 16:43	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/21/23 16:43	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/21/23 16:43	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/21/23 16:43	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/21/23 16:43	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/21/23 16:43	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/21/23 16:43	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/21/23 16:43	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/21/23 16:43	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Client Sample ID: MW-1

Lab Sample ID: 880-36038-2

Date Collected: 11/20/23 10:35

Matrix: Water

Date Received: 11/20/23 16:02

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			11/21/23 16:43	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/21/23 16:43	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/21/23 16:43	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/21/23 16:43	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/21/23 16:43	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/21/23 16:43	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/21/23 16:43	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/21/23 16:43	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/21/23 16:43	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/21/23 16:43	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/21/23 16:43	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/21/23 16:43	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/21/23 16:43	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			11/21/23 16:43	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			11/21/23 16:43	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/21/23 16:43	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/21/23 16:43	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/21/23 16:43	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/21/23 16:43	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/21/23 16:43	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/21/23 16:43	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/21/23 16:43	1
1,2,4-Trimethylbenzene	0.000739	J	0.00100	0.000417 mg/L			11/21/23 16:43	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/21/23 16:43	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/21/23 16:43	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/21/23 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		74 - 124		11/21/23 16:43	1
Dibromofluoromethane (Surr)	106		75 - 131		11/21/23 16:43	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		11/21/23 16:43	1
Toluene-d8 (Surr)	98		80 - 120		11/21/23 16:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.991	U	5.02	0.991 mg/L			11/21/23 22:41	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	<0.991	U	5.02	0.991 mg/L		11/21/23 15:29	11/21/23 22:41	1
Diesel Range Organics (Over C10-C28)	<0.991	U	5.02	0.991 mg/L		11/21/23 15:29	11/21/23 22:41	1
Oil Range Organics (Over C28-C36)	<0.957	U	5.02	0.957 mg/L		11/21/23 15:29	11/21/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135	11/21/23 15:29	11/21/23 22:41	1
o-Terphenyl	107		70 - 135	11/21/23 15:29	11/21/23 22:41	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Client Sample ID: MW-1

Lab Sample ID: 880-36038-2

Date Collected: 11/20/23 10:35

Matrix: Water

Date Received: 11/20/23 16:02

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		0.500	0.250	mg/L			11/22/23 03:42	1
Nitrate as N	0.122		0.100	0.0391	mg/L			11/22/23 03:42	1
Fluoride	0.406	J	0.500	0.100	mg/L			11/22/23 03:42	1
Nitrite as N	1.08		0.100	0.0293	mg/L			11/22/23 03:42	1
Sulfate	105		0.500	0.200	mg/L			11/22/23 03:42	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	868		4.00	4.00	mg/L			11/22/23 01:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	868		4.00	4.00	mg/L			11/22/23 01:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/22/23 01:30	1
Carbon dioxide (SM 4500 CO2 D)	769				mg/L			11/26/23 17:12	1
Carbon Dioxide, Free (SM 4500 CO2 D)	10.8				mg/L			11/26/23 17:12	1
pH (SM 4500 H+ B)	6.9	HF			SU			11/22/23 12:45	1
Temperature (SM 4500 H+ B)	13.3	HF			Degrees C			11/22/23 12:45	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

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)
880-36038-1	MW-2	101	104	108	98
880-36038-2	MW-1	101	106	108	98
LCS 860-132021/3	Lab Control Sample	101	104	99	97
LCSD 860-132021/4	Lab Control Sample Dup	99	106	100	97
MB 860-132021/9	Method Blank	102	105	106	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 (70-135)	OTPH1 (70-135)
880-36038-1	MW-2	81	98
880-36038-2	MW-1	90	107
LCS 860-132174/2-A	Lab Control Sample	116	104
LCSD 860-132174/3-A	Lab Control Sample Dup	114	101
MB 860-132174/1-A	Method Blank	91	110

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

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

Lab Sample ID: MB 860-132021/9

Matrix: Water

Analysis Batch: 132021

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			11/21/23 14:00	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/21/23 14:00	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/21/23 14:00	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/21/23 14:00	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/21/23 14:00	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/21/23 14:00	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/21/23 14:00	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/21/23 14:00	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/21/23 14:00	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/21/23 14:00	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/21/23 14:00	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/21/23 14:00	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/21/23 14:00	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/21/23 14:00	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/21/23 14:00	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/21/23 14:00	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/21/23 14:00	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/21/23 14:00	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/21/23 14:00	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/21/23 14:00	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/21/23 14:00	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/21/23 14:00	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/21/23 14:00	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/21/23 14:00	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/21/23 14:00	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/21/23 14:00	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/21/23 14:00	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/21/23 14:00	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/21/23 14:00	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/21/23 14:00	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/21/23 14:00	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/21/23 14:00	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/21/23 14:00	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/21/23 14:00	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/21/23 14:00	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/21/23 14:00	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/21/23 14:00	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/21/23 14:00	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/21/23 14:00	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/21/23 14:00	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/21/23 14:00	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/21/23 14:00	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/21/23 14:00	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/21/23 14:00	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/21/23 14:00	1
1,1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/21/23 14:00	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/21/23 14:00	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/21/23 14:00	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

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

Lab Sample ID: MB 860-132021/9

Matrix: Water

Analysis Batch: 132021

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	<0.000368	U	0.00100	0.000368 mg/L			11/21/23 14:00	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			11/21/23 14:00	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/21/23 14:00	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/21/23 14:00	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/21/23 14:00	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/21/23 14:00	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/21/23 14:00	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/21/23 14:00	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/21/23 14:00	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			11/21/23 14:00	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/21/23 14:00	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/21/23 14:00	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/21/23 14:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124		11/21/23 14:00	1
Dibromofluoromethane (Surr)	105		75 - 131		11/21/23 14:00	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/21/23 14:00	1
Toluene-d8 (Surr)	98		80 - 120		11/21/23 14:00	1

Lab Sample ID: LCS 860-132021/3

Matrix: Water

Analysis Batch: 132021

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	0.04610		mg/L		92	75 - 125
Bromobenzene	0.0500	0.04842		mg/L		97	75 - 125
Bromochloromethane	0.0500	0.05063		mg/L		101	60 - 140
Bromodichloromethane	0.0500	0.04766		mg/L		95	75 - 125
Bromoform	0.0500	0.04683		mg/L		94	70 - 130
Bromomethane	0.0500	0.04776		mg/L		96	60 - 140
2-Butanone	0.250	0.2687		mg/L		107	60 - 140
Carbon tetrachloride	0.0500	0.04543		mg/L		91	70 - 130
Chlorobenzene	0.0500	0.04630		mg/L		93	65 - 135
Chloroethane	0.0500	0.04353		mg/L		87	60 - 140
Chloroform	0.0500	0.04872		mg/L		97	70 - 121
Chloromethane	0.0500	0.04401		mg/L		88	60 - 140
2-Chlorotoluene	0.0500	0.04706		mg/L		94	73 - 125
4-Chlorotoluene	0.0500	0.04732		mg/L		95	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04803		mg/L		96	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04687		mg/L		94	74 - 125
Dibromochloromethane	0.0500	0.04663		mg/L		93	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05583		mg/L		112	59 - 125
1,2-Dibromoethane	0.0500	0.04910		mg/L		98	73 - 125
1,2-Dichlorobenzene	0.0500	0.04806		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04798		mg/L		96	75 - 125
1,4-Dichlorobenzene	0.0500	0.04809		mg/L		96	75 - 125
Dichlorodifluoromethane	0.0500	0.03869		mg/L		77	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

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

Lab Sample ID: LCS 860-132021/3

Matrix: Water

Analysis Batch: 132021

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	0.04728		mg/L		95	70 - 130
1,2-Dichloroethane	0.0500	0.04983		mg/L		100	72 - 130
1,1-Dichloroethene	0.0500	0.04529		mg/L		91	50 - 150
1,2-Dichloropropane	0.0500	0.04745		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.04834		mg/L		97	75 - 125
2,2-Dichloropropane	0.0500	0.04570		mg/L		91	75 - 125
1,1-Dichloropropene	0.0500	0.04870		mg/L		97	75 - 125
Ethylbenzene	0.0500	0.04601		mg/L		92	75 - 125
Hexachlorobutadiene	0.0500	0.05082		mg/L		102	75 - 125
Isopropylbenzene	0.0500	0.04560		mg/L		91	75 - 125
Methylene Chloride	0.0500	0.04793		mg/L		96	71 - 125
m,p-Xylenes	0.0500	0.04541		mg/L		91	75 - 125
MTBE	0.0500	0.04773		mg/L		95	65 - 135
Naphthalene	0.0500	0.05380		mg/L		108	70 - 130
n-Butylbenzene	0.0500	0.04926		mg/L		99	75 - 125
N-Propylbenzene	0.0500	0.04881		mg/L		98	75 - 125
o-Xylene	0.0500	0.04563		mg/L		91	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.04719		mg/L		94	75 - 125
sec-Butylbenzene	0.0500	0.04811		mg/L		96	75 - 125
Styrene	0.0500	0.04625		mg/L		93	75 - 125
tert-Butylbenzene	0.0500	0.04719		mg/L		94	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.04566		mg/L		91	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05038		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.04627		mg/L		93	71 - 125
Toluene	0.0500	0.04558		mg/L		91	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04793		mg/L		96	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04550		mg/L		91	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05179		mg/L		104	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05108		mg/L		102	75 - 135
1,1,1-Trichloroethane	0.0500	0.04630		mg/L		93	70 - 130
1,1,2-Trichloroethane	0.0500	0.04827		mg/L		97	70 - 130
Trichloroethene	0.0500	0.04702		mg/L		94	75 - 135
Trichlorofluoromethane	0.0500	0.05716		mg/L		114	60 - 140
1,2,3-Trichloropropane	0.0500	0.04708		mg/L		94	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04693		mg/L		94	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04671		mg/L		93	60 - 140
Vinyl chloride	0.0500	0.04894		mg/L		98	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	97		80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

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

Lab Sample ID: LCSD 860-132021/4

Matrix: Water

Analysis Batch: 132021

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	0.04731		mg/L		95	75 - 125	3	25
Bromobenzene	0.0500	0.04897		mg/L		98	75 - 125	1	25
Bromochloromethane	0.0500	0.05206		mg/L		104	60 - 140	3	25
Bromodichloromethane	0.0500	0.04854		mg/L		97	75 - 125	2	25
Bromoform	0.0500	0.04856		mg/L		97	70 - 130	4	25
Bromomethane	0.0500	0.05156		mg/L		103	60 - 140	8	25
2-Butanone	0.250	0.2859		mg/L		114	60 - 140	6	25
Carbon tetrachloride	0.0500	0.04469		mg/L		89	70 - 130	2	25
Chlorobenzene	0.0500	0.04714		mg/L		94	65 - 135	2	25
Chloroethane	0.0500	0.04604		mg/L		92	60 - 140	6	25
Chloroform	0.0500	0.05067		mg/L		101	70 - 121	4	25
Chloromethane	0.0500	0.04610		mg/L		92	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04768		mg/L		95	73 - 125	1	25
4-Chlorotoluene	0.0500	0.04753		mg/L		95	74 - 125	0	25
cis-1,2-Dichloroethene	0.0500	0.04919		mg/L		98	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.04830		mg/L		97	74 - 125	3	25
Dibromochloromethane	0.0500	0.04786		mg/L		96	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05876		mg/L		118	59 - 125	5	25
1,2-Dibromoethane	0.0500	0.05062		mg/L		101	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.04887		mg/L		98	75 - 125	2	25
1,3-Dichlorobenzene	0.0500	0.04859		mg/L		97	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.04854		mg/L		97	75 - 125	1	25
Dichlorodifluoromethane	0.0500	0.04036		mg/L		81	50 - 150	4	25
1,1-Dichloroethane	0.0500	0.04973		mg/L		99	70 - 130	5	25
1,2-Dichloroethane	0.0500	0.05081		mg/L		102	72 - 130	2	25
1,1-Dichloroethene	0.0500	0.04823		mg/L		96	50 - 150	6	25
1,2-Dichloropropane	0.0500	0.04908		mg/L		98	74 - 125	3	25
1,3-Dichloropropane	0.0500	0.04874		mg/L		97	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.04695		mg/L		94	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04890		mg/L		98	75 - 125	0	25
Ethylbenzene	0.0500	0.04681		mg/L		94	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.05140		mg/L		103	75 - 125	1	25
Isopropylbenzene	0.0500	0.04637		mg/L		93	75 - 125	2	25
Methylene Chloride	0.0500	0.04904		mg/L		98	71 - 125	2	25
m,p-Xylenes	0.0500	0.04605		mg/L		92	75 - 125	1	25
MTBE	0.0500	0.04936		mg/L		99	65 - 135	3	25
Naphthalene	0.0500	0.05435		mg/L		109	70 - 130	1	25
n-Butylbenzene	0.0500	0.04976		mg/L		100	75 - 125	1	25
N-Propylbenzene	0.0500	0.04791		mg/L		96	75 - 125	2	25
o-Xylene	0.0500	0.04626		mg/L		93	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04781		mg/L		96	75 - 125	1	25
sec-Butylbenzene	0.0500	0.04822		mg/L		96	75 - 125	0	25
Styrene	0.0500	0.04701		mg/L		94	75 - 125	2	25
tert-Butylbenzene	0.0500	0.04759		mg/L		95	75 - 125	1	25
1,1,1,2-Tetrachloroethane	0.0500	0.04725		mg/L		94	72 - 125	3	25
1,1,2,2-Tetrachloroethane	0.0500	0.05234		mg/L		105	74 - 125	4	25
Tetrachloroethene	0.0500	0.04674		mg/L		93	71 - 125	1	25
Toluene	0.0500	0.04661		mg/L		93	70 - 130	2	25

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

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

Lab Sample ID: LCSD 860-132021/4

Matrix: Water

Analysis Batch: 132021

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	0.04837		mg/L		97	75 - 125	1	25
trans-1,3-Dichloropropene	0.0500	0.04700		mg/L		94	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05243		mg/L		105	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.05105		mg/L		102	75 - 135	0	25
1,1,1-Trichloroethane	0.0500	0.04817		mg/L		96	70 - 130	4	25
1,1,2-Trichloroethane	0.0500	0.04938		mg/L		99	70 - 130	2	25
Trichloroethene	0.0500	0.04866		mg/L		97	75 - 135	3	25
Trichlorofluoromethane	0.0500	0.06001		mg/L		120	60 - 140	5	25
1,2,3-Trichloropropane	0.0500	0.04861		mg/L		97	75 - 125	3	25
1,2,4-Trimethylbenzene	0.0500	0.04715		mg/L		94	75 - 125	0	25
1,3,5-Trimethylbenzene	0.0500	0.04740		mg/L		95	60 - 140	1	25
Vinyl chloride	0.0500	0.05139		mg/L		103	60 - 140	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	97		80 - 120

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

Lab Sample ID: MB 860-132174/1-A

Matrix: Water

Analysis Batch: 132105

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132174

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		11/21/23 15:29	11/21/23 21:41	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		11/21/23 15:29	11/21/23 21:41	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		11/21/23 15:29	11/21/23 21:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135	11/21/23 15:29	11/21/23 21:41	1
o-Terphenyl	110		70 - 135	11/21/23 15:29	11/21/23 21:41	1

Lab Sample ID: LCS 860-132174/2-A

Matrix: Water

Analysis Batch: 132105

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	86.40		mg/L		86	70 - 135
Diesel Range Organics (Over C10-C28)	100	97.26		mg/L		97	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 135
o-Terphenyl	104		70 - 135

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

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

Lab Sample ID: LCSD 860-132174/3-A

Matrix: Water

Analysis Batch: 132105

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132174

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	88.17		mg/L		88	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	100	99.05		mg/L		99	70 - 135	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	114		70 - 135						
o-Terphenyl	101		70 - 135						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-132157/3

Matrix: Water

Analysis Batch: 132157

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			11/21/23 15:10	1
Fluoride	<0.100	U	0.500	0.100 mg/L			11/21/23 15:10	1
Sulfate	<0.200	U	0.500	0.200 mg/L			11/21/23 15:10	1

Lab Sample ID: LCS 860-132157/4

Matrix: Water

Analysis Batch: 132157

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	9.513		mg/L		95	90 - 110
Fluoride	10.0	9.992		mg/L		100	90 - 110
Sulfate	10.0	9.492		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-132157/5

Matrix: Water

Analysis Batch: 132157

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	9.535		mg/L		95	90 - 110	0	20
Fluoride	10.0	10.02		mg/L		100	90 - 110	0	20
Sulfate	10.0	9.521		mg/L		95	90 - 110	0	20

Lab Sample ID: LLCS 860-132157/7

Matrix: Water

Analysis Batch: 132157

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	0.4417	J	mg/L		88	50 - 150
Fluoride	0.500	0.3969	J	mg/L		79	50 - 150
Sulfate	0.500	0.4080	J	mg/L		82	50 - 150

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-132158/3

Matrix: Water

Analysis Batch: 132158

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			11/21/23 15:10	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/21/23 15:10	1

Lab Sample ID: LCS 860-132158/4

Matrix: Water

Analysis Batch: 132158

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	9.489		mg/L		95	80 - 120
Nitrite as N	10.0	9.778		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-132158/5

Matrix: Water

Analysis Batch: 132158

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	9.501		mg/L		95	80 - 120	0	20
Nitrite as N	10.0	9.823		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-132158/6

Matrix: Water

Analysis Batch: 132158

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	0.1048		mg/L		105	50 - 150
Nitrite as N	0.100	0.09011	J	mg/L		90	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-132283/34

Matrix: Water

Analysis Batch: 132283

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			11/21/23 21:16	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/21/23 21:16	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/21/23 21:16	1

Lab Sample ID: LCS 860-132283/35

Matrix: Water

Analysis Batch: 132283

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	258.1		mg/L		103	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-132283/36

Matrix: Water

Analysis Batch: 132283

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	258.1		mg/L		103	85 - 115	0	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-132328/3

Matrix: Water

Analysis Batch: 132328

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			11/22/23 11:13	1

Lab Sample ID: LCS 860-132328/4

Matrix: Water

Analysis Batch: 132328

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	1.030		mg/L		103	90 - 110

Lab Sample ID: LCSD 860-132328/5

Matrix: Water

Analysis Batch: 132328

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	1.032		mg/L		103	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

GC/MS VOA

Analysis Batch: 132021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	8260C	
880-36038-2	MW-1	Total/NA	Water	8260C	
MB 860-132021/9	Method Blank	Total/NA	Water	8260C	
LCS 860-132021/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-132021/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 130308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	8015 NM	
880-36038-2	MW-1	Total/NA	Water	8015 NM	

Analysis Batch: 132105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	8015B NM	132174
880-36038-2	MW-1	Total/NA	Water	8015B NM	132174
MB 860-132174/1-A	Method Blank	Total/NA	Water	8015B NM	132174
LCS 860-132174/2-A	Lab Control Sample	Total/NA	Water	8015B NM	132174
LCSD 860-132174/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	132174

Prep Batch: 132174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	8015NM Aq Prep	
880-36038-2	MW-1	Total/NA	Water	8015NM Aq Prep	
MB 860-132174/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-132174/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-132174/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 132157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	300.0	
880-36038-2	MW-1	Total/NA	Water	300.0	
MB 860-132157/3	Method Blank	Total/NA	Water	300.0	
LCS 860-132157/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-132157/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-132157/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 132158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	300.0	
880-36038-2	MW-1	Total/NA	Water	300.0	
MB 860-132158/3	Method Blank	Total/NA	Water	300.0	
LCS 860-132158/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-132158/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-132158/6	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

General Chemistry

Analysis Batch: 131682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	SM 4500 CO2 D	
880-36038-2	MW-1	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 132283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	SM 2320B	
880-36038-2	MW-1	Total/NA	Water	SM 2320B	
MB 860-132283/34	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-132283/35	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-132283/36	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 132328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Dissolved	Water	SM 4500 S2 D	132330
MB 860-132328/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-132328/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-132328/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Filtration Batch: 132330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Dissolved	Water	Filtration	

Analysis Batch: 132363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36038-1	MW-2	Total/NA	Water	SM 4500 H+ B	
880-36038-2	MW-1	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

Client Sample ID: MW-2

Date Collected: 11/20/23 12:05

Date Received: 11/20/23 16:02

Lab Sample ID: 880-36038-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	132021	NA	EET HOU	11/21/23 16:23
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	11/21/23 22:01
Total/NA	Prep	8015NM Aq Prep			132174	DR	EET HOU	11/21/23 15:29
Total/NA	Analysis	8015B NM		1	132105	T1S	EET HOU	11/21/23 22:01
Total/NA	Analysis	300.0		1	132157	A1S	EET HOU	11/22/23 04:37
Total/NA	Analysis	300.0		1	132158	A1S	EET HOU	11/22/23 04:37
Total/NA	Analysis	SM 2320B		1	132283	KEG	EET HOU	11/22/23 00:53
Total/NA	Analysis	SM 4500 CO2 D		1	131682	AA	EET HOU	11/26/23 17:12
Total/NA	Analysis	SM 4500 H+ B		1	132363	KEG	EET HOU	11/22/23 12:44
Dissolved	Filtration	Filtration			132330	SCI	EET HOU	11/22/23 10:17
Dissolved	Analysis	SM 4500 S2 D		1	132328	SCI	EET HOU	11/22/23 11:14

Client Sample ID: MW-1

Date Collected: 11/20/23 10:35

Date Received: 11/20/23 16:02

Lab Sample ID: 880-36038-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	132021	NA	EET HOU	11/21/23 16:43
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	11/21/23 22:41
Total/NA	Prep	8015NM Aq Prep			132174	DR	EET HOU	11/21/23 15:29
Total/NA	Analysis	8015B NM		1	132105	T1S	EET HOU	11/21/23 22:41
Total/NA	Analysis	300.0		1	132157	A1S	EET HOU	11/22/23 03:42
Total/NA	Analysis	300.0		1	132158	A1S	EET HOU	11/22/23 03:42
Total/NA	Analysis	SM 2320B		1	132283	KEG	EET HOU	11/22/23 01:30
Total/NA	Analysis	SM 4500 CO2 D		1	131682	AA	EET HOU	11/26/23 17:12
Total/NA	Analysis	SM 4500 H+ B		1	132363	KEG	EET HOU	11/22/23 12:45

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36038-1

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	T104704215-23-53	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: 880-36038-1

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: 880-36038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36038-1	MW-2	Water	11/20/23 12:05	11/20/23 16:02
880-36038-2	MW-1	Water	11/20/23 10:35	11/20/23 16:02

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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
Hobbs NM (575-392-7550) Phoenix AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa FL (813-

Work Order No:

Page 1 of 1

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

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 Temperature (°C): 9.4 Received Intact: Yes No ☒ ☐ Cooler Custody Seals: Yes No N/A Sample Custody Seals: Yes No N/A						Temp Blank: 9.4 Yes No ☒ ☐ Wet Ice: Yes No ☒ ☐ Thermometer ID: P-18 Correction Factor: F-20 Total Containers:						Number of Containers Dissolved Carbon Dioxide 4500 CO2 c Dissolved 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	
MW-1		GW		Date Sampled 11-20-23		Time Sampled 1205		Depth																	
MW-2		GW		Date Sampled 11-20-23		Time Sampled 1035		Depth																	
2015 11-20-23 5-20-23																									

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	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 <td>Cd <td>Cr <td>Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td></td></td></td></td></td></td></td></td>	Cd <td>Cr <td>Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td></td></td></td></td></td></td></td>	Cr <td>Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td></td></td></td></td></td></td>	Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td></td></td></td></td></td>	Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td></td></td></td></td>	Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td></td></td></td>	Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td></td></td>	Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td></td>	Ni <td>Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td></td>	Se <td>Ag <td>Ti <td>U</td> <td colspan="9"></td> </td></td>	Ag <td>Ti <td>U</td> <td colspan="9"></td> </td>	Ti <td>U</td> <td colspan="9"></td>	U									
																							1631 / 245.1	7470	/ 7471	Hg						

Notice. Signature of this document 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
3	[Handwritten Signature]	[Handwritten Signature]	11 2023			
4			607			
5						
6						

Revised Date 051418 Rev 2018.1

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-36038-1

Login Number: 36038

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	Received same day of collection; chilling process has begun.
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: 880-36038-1

Login Number: 36038

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/21/23 12:52 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?	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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/30/2023 7:13:23 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-36113-1

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
11/30/2023 7:13:23 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: 880-36113-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	20
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	26

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

Definitions/Glossary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36113-1

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
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: 880-36113-1

Job ID: 880-36113-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-36113-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/27/2023 2:35 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 7.6°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-132768 recovered above the upper control limit for Bromomethane. 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 860-132768/2).

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-132768 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-132805 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.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-132806 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: 880-36113-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-36113-1

Date Collected: 11/27/23 09:55

Matrix: Water

Date Received: 11/27/23 14:35

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			11/28/23 16:00	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/28/23 16:00	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/28/23 16:00	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/28/23 16:00	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/28/23 16:00	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/28/23 16:00	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/28/23 16:00	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/28/23 16:00	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/28/23 16:00	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/28/23 16:00	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/28/23 16:00	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/28/23 16:00	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/28/23 16:00	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/28/23 16:00	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/28/23 16:00	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/28/23 16:00	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/28/23 16:00	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/28/23 16:00	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/28/23 16:00	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/28/23 16:00	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/28/23 16:00	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/28/23 16:00	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/28/23 16:00	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/28/23 16:00	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/28/23 16:00	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/28/23 16:00	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/28/23 16:00	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/28/23 16:00	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/28/23 16:00	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/28/23 16:00	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/28/23 16:00	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/28/23 16:00	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/28/23 16:00	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/28/23 16:00	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/28/23 16:00	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/28/23 16:00	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/28/23 16:00	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/28/23 16:00	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/28/23 16:00	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/28/23 16:00	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/28/23 16:00	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/28/23 16:00	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/28/23 16:00	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/28/23 16:00	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/28/23 16:00	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/28/23 16:00	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/28/23 16:00	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/28/23 16:00	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			11/28/23 16:00	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-36113-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-36113-1

Date Collected: 11/27/23 09:55

Matrix: Water

Date Received: 11/27/23 14:35

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			11/28/23 16:00	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/28/23 16:00	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/28/23 16:00	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/28/23 16:00	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/28/23 16:00	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/28/23 16:00	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/28/23 16:00	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/28/23 16:00	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			11/28/23 16:00	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/28/23 16:00	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/28/23 16:00	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/28/23 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124		11/28/23 16:00	1
Dibromofluoromethane (Surr)	103		75 - 131		11/28/23 16:00	1
1,2-Dichloroethane-d4 (Surr)	111		63 - 144		11/28/23 16:00	1
Toluene-d8 (Surr)	104		80 - 120		11/28/23 16:00	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			11/29/23 20:05	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		11/29/23 13:56	11/29/23 20:05	1
Diesel Range Organics (Over C10-C28)	<1.03	U	5.21	1.03 mg/L		11/29/23 13:56	11/29/23 20:05	1
Oil Range Organics (Over C28-C36)	<0.993	U	5.21	0.993 mg/L		11/29/23 13:56	11/29/23 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 135	11/29/23 13:56	11/29/23 20:05	1
o-Terphenyl	108		70 - 135	11/29/23 13:56	11/29/23 20:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		0.500	0.250 mg/L			11/29/23 02:35	1
Nitrate as N	0.0887	J	0.100	0.0391 mg/L			11/29/23 02:35	1
Fluoride	0.428	J	0.500	0.100 mg/L			11/29/23 02:35	1
Nitrite as N	0.452		0.100	0.0293 mg/L			11/29/23 02:35	1
Sulfate	124		0.500	0.200 mg/L			11/29/23 02:35	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	898		4.00	4.00 mg/L			11/29/23 11:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	898		4.00	4.00 mg/L			11/29/23 11:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/29/23 11:19	1
Carbon dioxide (SM 4500 CO2 D)	1020			mg/L			11/30/23 16:51	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36113-1

Client Sample ID: MW-1
Date Collected: 11/27/23 09:55
Date Received: 11/27/23 14:35

Lab Sample ID: 880-36113-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Carbon Dioxide, Free (SM 4500 CO2 D)	226			mg/L			11/30/23 16:51	1	
pH (SM 4500 H+ B)	6.9	HF		SU			11/29/23 11:56	1	
Temperature (SM 4500 H+ B)	17.1	HF		Degrees C			11/29/23 11:56	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			11/28/23 16:50	1	

Client Sample ID: MW-2
Date Collected: 11/27/23 11:20
Date Received: 11/27/23 14:35

Lab Sample ID: 880-36113-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.0189		0.00100	0.000460 mg/L			11/28/23 16:19	1	
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/28/23 16:19	1	
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/28/23 16:19	1	
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/28/23 16:19	1	
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/28/23 16:19	1	
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/28/23 16:19	1	
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/28/23 16:19	1	
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/28/23 16:19	1	
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/28/23 16:19	1	
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/28/23 16:19	1	
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/28/23 16:19	1	
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/28/23 16:19	1	
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/28/23 16:19	1	
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/28/23 16:19	1	
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/28/23 16:19	1	
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/28/23 16:19	1	
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/28/23 16:19	1	
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/28/23 16:19	1	
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/28/23 16:19	1	
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/28/23 16:19	1	
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/28/23 16:19	1	
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/28/23 16:19	1	
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/28/23 16:19	1	
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/28/23 16:19	1	
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/28/23 16:19	1	
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/28/23 16:19	1	
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/28/23 16:19	1	
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/28/23 16:19	1	
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/28/23 16:19	1	
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/28/23 16:19	1	
Ethylbenzene	0.0240		0.00100	0.000385 mg/L			11/28/23 16:19	1	
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/28/23 16:19	1	
Isopropylbenzene	0.00949		0.00100	0.000592 mg/L			11/28/23 16:19	1	
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/28/23 16:19	1	
m,p-Xylenes	0.0765		0.0100	0.00124 mg/L			11/28/23 16:19	1	

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36113-1

Client Sample ID: MW-2
Date Collected: 11/27/23 11:20
Date Received: 11/27/23 14:35

Lab Sample ID: 880-36113-2
Matrix: Water

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			11/28/23 16:19	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			11/28/23 16:19	1
n-Butylbenzene	0.00100		0.00100	0.000510	mg/L			11/28/23 16:19	1
N-Propylbenzene	0.00261		0.00100	0.000429	mg/L			11/28/23 16:19	1
o-Xylene	0.0242		0.00100	0.000502	mg/L			11/28/23 16:19	1
p-Cymene (p-Isopropyltoluene)	0.00100		0.00100	0.000676	mg/L			11/28/23 16:19	1
sec-Butylbenzene	0.00122		0.00100	0.000468	mg/L			11/28/23 16:19	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			11/28/23 16:19	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			11/28/23 16:19	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			11/28/23 16:19	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			11/28/23 16:19	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			11/28/23 16:19	1
Toluene	0.00470		0.00100	0.000475	mg/L			11/28/23 16:19	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			11/28/23 16:19	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			11/28/23 16:19	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			11/28/23 16:19	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			11/28/23 16:19	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			11/28/23 16:19	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			11/28/23 16:19	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			11/28/23 16:19	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			11/28/23 16:19	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			11/28/23 16:19	1
1,2,4-Trimethylbenzene	0.0448		0.00100	0.000417	mg/L			11/28/23 16:19	1
1,3,5-Trimethylbenzene	0.0105		0.00100	0.000411	mg/L			11/28/23 16:19	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			11/28/23 16:19	1
Xylenes, Total	0.101		0.0100	0.00124	mg/L			11/28/23 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124					11/28/23 16:19	1
Dibromofluoromethane (Surr)	100		75 - 131					11/28/23 16:19	1
1,2-Dichloroethane-d4 (Surr)	113		63 - 144					11/28/23 16:19	1
Toluene-d8 (Surr)	106		80 - 120					11/28/23 16:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.44	J	5.03	0.995	mg/L			11/29/23 20:24	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	1.44	J	5.03	0.995	mg/L		11/29/23 13:56	11/29/23 20:24	1
Diesel Range Organics (Over C10-C28)	<0.995	U	5.03	0.995	mg/L		11/29/23 13:56	11/29/23 20:24	1
Oil Range Organics (Over C28-C36)	<0.960	U	5.03	0.960	mg/L		11/29/23 13:56	11/29/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135				11/29/23 13:56	11/29/23 20:24	1
o-Terphenyl	103		70 - 135				11/29/23 13:56	11/29/23 20:24	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36113-1

Client Sample ID: MW-2
Date Collected: 11/27/23 11:20
Date Received: 11/27/23 14:35

Lab Sample ID: 880-36113-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.6		0.500	0.250	mg/L			11/29/23 04:16	1
Nitrate as N	0.270		0.100	0.0391	mg/L			11/29/23 04:16	1
Fluoride	0.213	J	0.500	0.100	mg/L			11/29/23 04:16	1
Nitrite as N	1.58		0.100	0.0293	mg/L			11/29/23 04:16	1
Sulfate	88.0		0.500	0.200	mg/L			11/29/23 04:16	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1330		4.00	4.00	mg/L			11/29/23 11:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1330		4.00	4.00	mg/L			11/29/23 11:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			11/29/23 11:35	1
Carbon dioxide (SM 4500 CO2 D)	2850				mg/L			11/30/23 16:51	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1680				mg/L			11/30/23 16:51	1
pH (SM 4500 H+ B)	6.2	HF			SU			11/29/23 11:57	1
Temperature (SM 4500 H+ B)	17.6	HF			Degrees C			11/29/23 11:57	1

Surrogate Summary

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36113-1

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)
880-36113-1	MW-1	106	103	111	104
880-36113-2	MW-2	100	100	113	106
LCSD 860-132768/4	Lab Control Sample Dup	100	92	96	100
MB 860-132768/9	Method Blank	104	99	109	104
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)
880-36113-1	MW-1	104	108
880-36113-2	MW-2	100	103
LCS 860-132977/2-A	Lab Control Sample	115	94
LCSD 860-132977/3-A	Lab Control Sample Dup	116	94
MB 860-132977/1-A	Method Blank	104	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-36113-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-132768/9

Matrix: Water

Analysis Batch: 132768

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			11/28/23 15:03	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/28/23 15:03	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/28/23 15:03	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/28/23 15:03	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/28/23 15:03	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/28/23 15:03	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/28/23 15:03	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/28/23 15:03	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/28/23 15:03	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/28/23 15:03	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/28/23 15:03	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/28/23 15:03	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/28/23 15:03	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/28/23 15:03	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/28/23 15:03	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/28/23 15:03	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/28/23 15:03	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/28/23 15:03	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/28/23 15:03	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/28/23 15:03	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/28/23 15:03	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/28/23 15:03	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/28/23 15:03	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/28/23 15:03	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/28/23 15:03	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/28/23 15:03	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/28/23 15:03	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/28/23 15:03	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/28/23 15:03	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/28/23 15:03	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/28/23 15:03	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/28/23 15:03	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/28/23 15:03	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/28/23 15:03	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/28/23 15:03	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/28/23 15:03	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/28/23 15:03	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/28/23 15:03	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/28/23 15:03	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/28/23 15:03	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/28/23 15:03	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/28/23 15:03	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/28/23 15:03	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/28/23 15:03	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/28/23 15:03	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/28/23 15:03	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/28/23 15:03	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/28/23 15:03	1

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-36113-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-132768/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 132768

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		11/28/23 15:03	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		11/28/23 15:03	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		11/28/23 15:03	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		11/28/23 15:03	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		11/28/23 15:03	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		11/28/23 15:03	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		11/28/23 15:03	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		11/28/23 15:03	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		11/28/23 15:03	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		11/28/23 15:03	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		11/28/23 15:03	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		11/28/23 15:03	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		11/28/23 15:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		74 - 124		11/28/23 15:03	1
Dibromofluoromethane (Surr)	99		75 - 131		11/28/23 15:03	1
1,2-Dichloroethane-d4 (Surr)	109		63 - 144		11/28/23 15:03	1
Toluene-d8 (Surr)	104		80 - 120		11/28/23 15:03	1

Lab Sample ID: LCSD 860-132768/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 132768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04681		mg/L		94	75 - 125	4	25
Bromobenzene	0.0500	0.05166		mg/L		103	75 - 125	7	25
Bromochloromethane	0.0500	0.04688		mg/L		94	60 - 140	1	25
Bromodichloromethane	0.0500	0.04928		mg/L		99	75 - 125	0	25
Bromoform	0.0500	0.05208		mg/L		104	70 - 130	10	25
Bromomethane	0.0500	0.05546		mg/L		111	60 - 140	11	25
2-Butanone	0.250	0.2245		mg/L		90	60 - 140	14	25
Carbon tetrachloride	0.0500	0.04572		mg/L		91	70 - 130	4	25
Chlorobenzene	0.0500	0.05004		mg/L		100	65 - 135	1	25
Chloroethane	0.0500	0.04233		mg/L		85	60 - 140	15	25
Chloroform	0.0500	0.04486		mg/L		90	70 - 121	5	25
Chloromethane	0.0500	0.04853		mg/L		97	60 - 140	9	25
2-Chlorotoluene	0.0500	0.05001		mg/L		100	73 - 125	6	25
4-Chlorotoluene	0.0500	0.05005		mg/L		100	74 - 125	7	25
cis-1,2-Dichloroethene	0.0500	0.04674		mg/L		93	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.04990		mg/L		100	74 - 125	1	25
Dibromochloromethane	0.0500	0.05517		mg/L		110	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05513		mg/L		110	59 - 125	25	25
1,2-Dibromoethane	0.0500	0.05179		mg/L		104	73 - 125	8	25
1,2-Dichlorobenzene	0.0500	0.05087		mg/L		102	75 - 125	11	25
1,3-Dichlorobenzene	0.0500	0.05227		mg/L		105	75 - 125	9	25
1,4-Dichlorobenzene	0.0500	0.04960		mg/L		99	75 - 125	10	25
Dichlorodifluoromethane	0.0500	0.05327		mg/L		107	50 - 150	10	25

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-36113-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-132768/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 132768

Analyte	Spike	LCSD	LCSD			%Rec	RPD		
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethane	0.0500	0.04550		mg/L		91	70 - 130	3	25
1,2-Dichloroethane	0.0500	0.04768		mg/L		95	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04374		mg/L		87	50 - 150	20	25
1,2-Dichloropropane	0.0500	0.04705		mg/L		94	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.05155		mg/L		103	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.05099		mg/L		102	75 - 125	8	25
1,1-Dichloropropene	0.0500	0.04558		mg/L		91	75 - 125	2	25
Ethylbenzene	0.0500	0.05206		mg/L		104	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05652		mg/L		113	75 - 125	4	25
Isopropylbenzene	0.0500	0.04854		mg/L		97	75 - 125	1	25
Methylene Chloride	0.0500	0.04444		mg/L		89	71 - 125	3	25
m,p-Xylenes	0.0500	0.05308		mg/L		106	75 - 125	1	25
MTBE	0.0500	0.05263		mg/L		105	65 - 135	0	25
Naphthalene	0.0500	0.05114		mg/L		102	70 - 130	22	25
n-Butylbenzene	0.0500	0.05310		mg/L		106	75 - 125	7	25
N-Propylbenzene	0.0500	0.05072		mg/L		101	75 - 125	6	25
o-Xylene	0.0500	0.05442		mg/L		109	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05511		mg/L		110	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05295		mg/L		106	75 - 125	4	25
Styrene	0.0500	0.05355		mg/L		107	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05539		mg/L		111	75 - 125	7	25
1,1,1,2-Tetrachloroethane	0.0500	0.05262		mg/L		105	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04542		mg/L		91	74 - 125	17	25
Tetrachloroethene	0.0500	0.05035		mg/L		101	71 - 125	0	25
Toluene	0.0500	0.04919		mg/L		98	70 - 130	1	25
trans-1,2-Dichloroethene	0.0500	0.04925		mg/L		99	75 - 125	7	25
trans-1,3-Dichloropropene	0.0500	0.05434		mg/L		109	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05832		mg/L		117	75 - 137	15	25
1,2,4-Trichlorobenzene	0.0500	0.05695		mg/L		114	75 - 135	12	25
1,1,1-Trichloroethane	0.0500	0.04828		mg/L		97	70 - 130	9	25
1,1,2-Trichloroethane	0.0500	0.04905		mg/L		98	70 - 130	6	25
Trichloroethene	0.0500	0.05091		mg/L		102	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.05468		mg/L		109	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.04793		mg/L		96	75 - 125	19	25
1,2,4-Trimethylbenzene	0.0500	0.05396		mg/L		108	75 - 125	8	25
1,3,5-Trimethylbenzene	0.0500	0.05256		mg/L		105	60 - 140	7	25
Vinyl chloride	0.0500	0.04781		mg/L		96	60 - 140	12	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	92		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	100		80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: South Hobbs - 03B1417002

Job ID: 880-36113-1

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

Lab Sample ID: MB 860-132977/1-A							Client Sample ID: Method Blank		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 132876							Prep Batch: 132977		
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		11/29/23 13:54	11/29/23 19:04	1	
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		11/29/23 13:54	11/29/23 19:04	1	
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		11/29/23 13:54	11/29/23 19:04	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	104		70 - 135			11/29/23 13:54	11/29/23 19:04	1	
o-Terphenyl	106		70 - 135			11/29/23 13:54	11/29/23 19:04	1	

Lab Sample ID: LCS 860-132977/2-A							Client Sample ID: Lab Control Sample		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 132876							Prep Batch: 132977		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	99.9	105.6		mg/L		106	70 - 135		
Diesel Range Organics (Over C10-C28)	99.9	104.3		mg/L		104	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	115		70 - 135						
o-Terphenyl	94		70 - 135						

Lab Sample ID: LCSD 860-132977/3-A						Client Sample ID: Lab Control Sample Dup						
Matrix: Water						Prep Type: Total/NA						
Analysis Batch: 132876						Prep Batch: 132977						
Analyte				Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10				99.9	106.7		mg/L		107	70 - 135	1	35
Diesel Range Organics (Over C10-C28)				99.9	106.7		mg/L		107	70 - 135	2	35
								</				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-132805/13							Client Sample ID: Method Blank		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 132805									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.250	U	0.500	0.250 mg/L			11/28/23 21:45	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			11/28/23 21:45	1	
Sulfate	<0.200	U	0.500	0.200 mg/L			11/28/23 21:45	1	

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-36113-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-132805/14

Matrix: Water

Analysis Batch: 132805

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	9.946		mg/L		99	90 - 110	
Fluoride	10.0	10.19		mg/L		102	90 - 110	
Sulfate	10.0	10.06		mg/L		101	90 - 110	

Lab Sample ID: LCSD 860-132805/15

Matrix: Water

Analysis Batch: 132805

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			
Chloride	10.0	9.938		mg/L		99	90 - 110	0	20	
Fluoride	10.0	10.04		mg/L		100	90 - 110	1	20	
Sulfate	10.0	10.05		mg/L		101	90 - 110	0	20	

Lab Sample ID: LLCS 860-132805/17

Matrix: Water

Analysis Batch: 132805

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	0.7118		mg/L		142	50 - 150	
Fluoride	0.500	0.4582	J	mg/L		92	50 - 150	
Sulfate	0.500	0.4881	J	mg/L		98	50 - 150	

Lab Sample ID: MB 860-132806/13

Matrix: Water

Analysis Batch: 132806

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			11/28/23 21:45	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/28/23 21:45	1

Lab Sample ID: LCS 860-132806/14

Matrix: Water

Analysis Batch: 132806

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	9.941		mg/L		99	80 - 120	
Nitrite as N	10.0	9.781		mg/L		98	80 - 120	

Lab Sample ID: LCSD 860-132806/15

Matrix: Water

Analysis Batch: 132806

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			
Nitrate as N	10.0	9.925		mg/L		99	80 - 120	0	20	
Nitrite as N	10.0	9.816		mg/L		98	80 - 120	0	20	

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-36113-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-132806/16

Matrix: Water

Analysis Batch: 132806

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	0.1196		mg/L		120	50 - 150
Nitrite as N	0.100	0.06934	J	mg/L		69	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-132984/3

Matrix: Water

Analysis Batch: 132984

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	mg/L			11/29/23 10:05	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			11/29/23 10:05	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			11/29/23 10:05	1

Lab Sample ID: LCS 860-132984/4

Matrix: Water

Analysis Batch: 132984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	262.2		mg/L		105	85 - 115

Lab Sample ID: LCSD 860-132984/5

Matrix: Water

Analysis Batch: 132984

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	255.0		mg/L		102	85 - 115	3	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-132835/3

Matrix: Water

Analysis Batch: 132835

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	mg/L			11/28/23 16:50	1

Lab Sample ID: LCS 860-132835/4

Matrix: Water

Analysis Batch: 132835

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	1.019		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-132835/5

Matrix: Water

Analysis Batch: 132835

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	1.022		mg/L		102	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum

Job ID: 880-36113-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 132768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	8260C	
880-36113-2	MW-2	Total/NA	Water	8260C	
MB 860-132768/9	Method Blank	Total/NA	Water	8260C	
LCSD 860-132768/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 130308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	8015 NM	
880-36113-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 132876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	8015B NM	132977
880-36113-2	MW-2	Total/NA	Water	8015B NM	132977
MB 860-132977/1-A	Method Blank	Total/NA	Water	8015B NM	132977
LCS 860-132977/2-A	Lab Control Sample	Total/NA	Water	8015B NM	132977
LCSD 860-132977/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	132977

Prep Batch: 132977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-36113-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-132977/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-132977/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-132977/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 132805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	300.0	
880-36113-2	MW-2	Total/NA	Water	300.0	
MB 860-132805/13	Method Blank	Total/NA	Water	300.0	
LCS 860-132805/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-132805/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-132805/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 132806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	300.0	
880-36113-2	MW-2	Total/NA	Water	300.0	
MB 860-132806/13	Method Blank	Total/NA	Water	300.0	
LCS 860-132806/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-132806/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-132806/16	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Midland

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-36113-1

General Chemistry

Analysis Batch: 132835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Dissolved	Water	SM 4500 S2 D	132844
MB 860-132835/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-132835/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-132835/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Filtration Batch: 132844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 132962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-36113-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 132984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	SM 2320B	
880-36113-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-132984/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-132984/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-132984/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 133217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36113-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-36113-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-36113-1

Client Sample ID: MW-1

Date Collected: 11/27/23 09:55

Date Received: 11/27/23 14:35

Lab Sample ID: 880-36113-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	132768	AN	EET HOU	11/28/23 16:00
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	11/29/23 20:05
Total/NA	Prep	8015NM Aq Prep			132977	BNW	EET HOU	11/29/23 13:56
Total/NA	Analysis	8015B NM		1	132876	W1N	EET HOU	11/29/23 20:05
Total/NA	Analysis	300.0		1	132805	RBNS	EET HOU	11/29/23 02:35
Total/NA	Analysis	300.0		1	132806	RBNS	EET HOU	11/29/23 02:35
Total/NA	Analysis	SM 2320B		1	132984	KEG	EET HOU	11/29/23 11:19
Total/NA	Analysis	SM 4500 CO2 D		1	133217	AA	EET HOU	11/30/23 16:51
Total/NA	Analysis	SM 4500 H+ B		1	132962	KEG	EET HOU	11/29/23 11:56
Dissolved	Filtration	Filtration			132844	SCI	EET HOU	11/28/23 16:05
Dissolved	Analysis	SM 4500 S2 D		1	132835	SCI	EET HOU	11/28/23 16:50

Client Sample ID: MW-2

Date Collected: 11/27/23 11:20

Date Received: 11/27/23 14:35

Lab Sample ID: 880-36113-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	132768	AN	EET HOU	11/28/23 16:19
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	11/29/23 20:24
Total/NA	Prep	8015NM Aq Prep			132977	BNW	EET HOU	11/29/23 13:56
Total/NA	Analysis	8015B NM		1	132876	W1N	EET HOU	11/29/23 20:24
Total/NA	Analysis	300.0		1	132805	RBNS	EET HOU	11/29/23 04:16
Total/NA	Analysis	300.0		1	132806	RBNS	EET HOU	11/29/23 04:16
Total/NA	Analysis	SM 2320B		1	132984	KEG	EET HOU	11/29/23 11:35
Total/NA	Analysis	SM 4500 CO2 D		1	133217	AA	EET HOU	11/30/23 16:51
Total/NA	Analysis	SM 4500 H+ B		1	132962	KEG	EET HOU	11/29/23 11:57

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: 880-36113-1

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	T104704215-23-53	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: 880-36113-1

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: 880-36113-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36113-1	MW-1	Water	11/27/23 09:55	11/27/23 14:35
880-36113-2	MW-2	Water	11/27/23 11:20	11/27/23 14:35

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



Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3333
Midland TX (432-704-5440) El Paso TX (915)555-3443 Lubbock TX (806)794-1296
Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813) 988-3333
Hobbs NM (575-392-7550)

Chain of Custody

Wor

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

Program: UST/PT ☐ 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 ☐			
P.O. Number:	03B1417002	Rush 24 Hr			
Sampler's Name	Shane Diller	Due Date			
SAMPLE RECEIPT					
Temperature (°C)	7.4/7.0	Temp Blank: Yes ☐ No ☒	Wet Ice: Yes ☒ No ☐	Thermometer ID	1123
Received In tact:	Yes ☒ No ☐			Correction Factor:	-20
Cooler Custody Seals:	Yes No	N/A			Total Containers
Sample Custody Seals:	Yes No	N/A			
Number of Containers					
Reduced Carbon Dioxide 4500 CO2 c					
Reduced Sulfide SW-846 #376.2					
SW-846 #8260					
A Method #8015					
EPA Method #846 300					
SW-846 Method 150.1					
TAT starts the day received by the lab if received by 4 30pm					

[illegible][illegible]

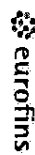
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility 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
		11/27/23			
		1/3/24			

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: 880-36113-1

Login Number: 36113

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	Received same day of collection; chilling process has begun.
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: 880-36113-1

Login Number: 36113

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/28/23 02:06 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?	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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/30/2023 7:18:51 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-36114-1

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
11/30/2023 7:18:51 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: 880-36114-1
SDG: Hobbs NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	17
Lab Chronicle	19
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	25

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

Definitions/Glossary

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

Job ID: 880-36114-1
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
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.
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	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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)

Definitions/Glossary

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

Job ID: 880-36114-1
SDG: Hobbs NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
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: 880-36114-1
SDG: Hobbs NM

Job ID: 880-36114-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-36114-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 11/27/2023 2:35 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 7.6°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-132768 recovered above the upper control limit for Bromomethane. 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 860-132768/2).

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-132768 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 / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-132806 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: The following sample was diluted to bring the concentration of target analytes within the calibration range: Levey Well (880-36114-1). Elevated reporting limits (RLs) are provided.

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

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: 880-36114-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-36114-1

Date Collected: 11/27/23 10:00

Matrix: Water

Date Received: 11/27/23 14:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00160		0.00100	0.000460 mg/L			11/28/23 16:38	1
Bromobenzene	<0.000486 U		0.00100	0.000486 mg/L			11/28/23 16:38	1
Bromochloromethane	<0.000577 U		0.00100	0.000577 mg/L			11/28/23 16:38	1
Bromodichloromethane	<0.000552 U		0.00100	0.000552 mg/L			11/28/23 16:38	1
Bromoform	<0.000633 U		0.00500	0.000633 mg/L			11/28/23 16:38	1
Bromomethane	<0.00142 U		0.00500	0.00142 mg/L			11/28/23 16:38	1
2-Butanone	<0.00828 U		0.0500	0.00828 mg/L			11/28/23 16:38	1
Carbon tetrachloride	<0.000896 U		0.00500	0.000896 mg/L			11/28/23 16:38	1
Chlorobenzene	<0.000455 U		0.00100	0.000455 mg/L			11/28/23 16:38	1
Chloroethane	<0.00198 U		0.0100	0.00198 mg/L			11/28/23 16:38	1
Chloroform	<0.000464 U		0.00100	0.000464 mg/L			11/28/23 16:38	1
Chloromethane	<0.00204 U		0.0100	0.00204 mg/L			11/28/23 16:38	1
2-Chlorotoluene	<0.000459 U		0.00200	0.000459 mg/L			11/28/23 16:38	1
4-Chlorotoluene	<0.000386 U		0.00100	0.000386 mg/L			11/28/23 16:38	1
cis-1,2-Dichloroethene	<0.000457 U		0.00100	0.000457 mg/L			11/28/23 16:38	1
cis-1,3-Dichloropropene	<0.00107 U		0.00500	0.00107 mg/L			11/28/23 16:38	1
Dibromochloromethane	<0.000547 U		0.00500	0.000547 mg/L			11/28/23 16:38	1
1,2-Dibromo-3-Chloropropane	<0.000671 U		0.00500	0.000671 mg/L			11/28/23 16:38	1
1,2-Dibromoethane	<0.000999 U		0.00500	0.000999 mg/L			11/28/23 16:38	1
1,2-Dichlorobenzene	<0.000429 U		0.00100	0.000429 mg/L			11/28/23 16:38	1
1,3-Dichlorobenzene	<0.000413 U		0.00100	0.000413 mg/L			11/28/23 16:38	1
1,4-Dichlorobenzene	<0.000449 U		0.00100	0.000449 mg/L			11/28/23 16:38	1
Dichlorodifluoromethane	<0.000785 U		0.00100	0.000785 mg/L			11/28/23 16:38	1
1,1-Dichloroethane	<0.000635 U		0.00100	0.000635 mg/L			11/28/23 16:38	1
1,2-Dichloroethane	<0.000372 U		0.00100	0.000372 mg/L			11/28/23 16:38	1
1,1-Dichloroethene	<0.000738 U		0.00100	0.000738 mg/L			11/28/23 16:38	1
1,2-Dichloropropane	<0.000556 U		0.00500	0.000556 mg/L			11/28/23 16:38	1
1,3-Dichloropropane	<0.000514 U		0.00500	0.000514 mg/L			11/28/23 16:38	1
2,2-Dichloropropane	<0.000679 U		0.00500	0.000679 mg/L			11/28/23 16:38	1
1,1-Dichloropropene	<0.000624 U		0.00500	0.000624 mg/L			11/28/23 16:38	1
Ethylbenzene	0.00574		0.00100	0.000385 mg/L			11/28/23 16:38	1
Hexachlorobutadiene	<0.000627 U		0.00500	0.000627 mg/L			11/28/23 16:38	1
Isopropylbenzene	0.00319		0.00100	0.000592 mg/L			11/28/23 16:38	1
Methylene Chloride	<0.00173 U		0.00500	0.00173 mg/L			11/28/23 16:38	1
m,p-Xylenes	0.0249		0.0100	0.00124 mg/L			11/28/23 16:38	1
MTBE	<0.00139 U		0.00500	0.00139 mg/L			11/28/23 16:38	1
Naphthalene	<0.00135 U		0.0100	0.00135 mg/L			11/28/23 16:38	1
n-Butylbenzene	<0.000510 U		0.00100	0.000510 mg/L			11/28/23 16:38	1
N-Propylbenzene	0.00123		0.00100	0.000429 mg/L			11/28/23 16:38	1
o-Xylene	0.00359		0.00100	0.000502 mg/L			11/28/23 16:38	1
p-Cymene (p-Isopropyltoluene)	<0.000676 U		0.00100	0.000676 mg/L			11/28/23 16:38	1
sec-Butylbenzene	0.000566 J		0.00100	0.000468 mg/L			11/28/23 16:38	1
Styrene	<0.000619 U		0.00100	0.000619 mg/L			11/28/23 16:38	1
tert-Butylbenzene	<0.000442 U		0.00100	0.000442 mg/L			11/28/23 16:38	1
1,1,1,2-Tetrachloroethane	<0.000644 U		0.00100	0.000644 mg/L			11/28/23 16:38	1
1,1,2,2-Tetrachloroethane	<0.000470 U		0.00100	0.000470 mg/L			11/28/23 16:38	1
Tetrachloroethene	<0.000655 U		0.00100	0.000655 mg/L			11/28/23 16:38	1
Toluene	0.0110		0.00100	0.000475 mg/L			11/28/23 16:38	1
trans-1,2-Dichloroethene	<0.000368 U		0.00100	0.000368 mg/L			11/28/23 16:38	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-36114-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-36114-1
Date Collected: 11/27/23 10:00 Matrix: Water
Date Received: 11/27/23 14:35

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			11/28/23 16:38	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/28/23 16:38	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/28/23 16:38	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/28/23 16:38	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/28/23 16:38	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/28/23 16:38	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/28/23 16:38	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/28/23 16:38	1
1,2,4-Trimethylbenzene	0.00551		0.00100	0.000417 mg/L			11/28/23 16:38	1
1,3,5-Trimethylbenzene	0.00171		0.00100	0.000411 mg/L			11/28/23 16:38	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/28/23 16:38	1
Xylenes, Total	0.0285		0.0100	0.00124 mg/L			11/28/23 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124				11/28/23 16:38	1
Dibromofluoromethane (Surr)	101		75 - 131				11/28/23 16:38	1
1,2-Dichloroethane-d4 (Surr)	113		63 - 144				11/28/23 16:38	1
Toluene-d8 (Surr)	109		80 - 120				11/28/23 16:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.569		0.500	0.0711 mg/L			11/29/23 03:51	1
Nitrate as N	0.124		0.100	0.0391 mg/L			11/29/23 03:51	1
Chloride	223		0.500	0.250 mg/L			11/29/23 03:51	1
Nitrite as N	0.462		0.100	0.0293 mg/L			11/29/23 03:51	1
Fluoride	0.617		0.500	0.100 mg/L			11/29/23 03:51	1
Sulfate	49.2		0.500	0.200 mg/L			11/29/23 03:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	283		10.0	5.76 mg/L		11/29/23 11:30	11/29/23 23:01	50
Magnesium	52.9		0.200	0.0428 mg/L		11/29/23 11:30	11/29/23 22:43	1
Potassium	4.51		0.500	0.0914 mg/L		11/29/23 11:30	11/29/23 22:43	1
Sodium	89.0		0.500	0.152 mg/L		11/29/23 11:30	11/29/23 22:43	1
SiO2	69.1		1.07	0.471 mg/L		11/29/23 11:30	11/29/23 22:43	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-2.72			%			11/30/23 19:26	1
Alkalinity (SM 2320B)	676		4.00	4.00 mg/L			11/29/23 12:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	676		4.00	4.00 mg/L			11/29/23 12:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/29/23 12:01	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/29/23 12:01	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			11/29/23 12:01	1
Total Dissolved Solids (SM 2540C)	1300		20.0	20.0 mg/L			11/29/23 10:22	1
pH (SM 4500 H+ B)	6.3	HF		SU			11/30/23 13:56	1
Temperature (SM 4500 H+ B)	14.0	HF		Degrees C			11/30/23 13:56	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-36114-1
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)
880-36114-1	Levey Well	105	101	113	109
LCSD 860-132768/4	Lab Control Sample Dup	100	92	96	100
MB 860-132768/9	Method Blank	104	99	109	104
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: 880-36114-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-132768/9

Matrix: Water

Analysis Batch: 132768

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			11/28/23 15:03	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			11/28/23 15:03	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			11/28/23 15:03	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			11/28/23 15:03	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			11/28/23 15:03	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			11/28/23 15:03	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			11/28/23 15:03	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			11/28/23 15:03	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			11/28/23 15:03	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			11/28/23 15:03	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			11/28/23 15:03	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			11/28/23 15:03	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			11/28/23 15:03	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			11/28/23 15:03	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			11/28/23 15:03	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			11/28/23 15:03	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			11/28/23 15:03	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			11/28/23 15:03	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			11/28/23 15:03	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			11/28/23 15:03	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			11/28/23 15:03	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			11/28/23 15:03	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			11/28/23 15:03	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			11/28/23 15:03	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			11/28/23 15:03	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			11/28/23 15:03	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			11/28/23 15:03	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			11/28/23 15:03	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			11/28/23 15:03	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			11/28/23 15:03	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			11/28/23 15:03	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			11/28/23 15:03	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			11/28/23 15:03	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			11/28/23 15:03	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			11/28/23 15:03	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			11/28/23 15:03	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			11/28/23 15:03	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			11/28/23 15:03	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			11/28/23 15:03	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			11/28/23 15:03	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			11/28/23 15:03	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			11/28/23 15:03	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			11/28/23 15:03	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			11/28/23 15:03	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			11/28/23 15:03	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			11/28/23 15:03	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			11/28/23 15:03	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			11/28/23 15:03	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-36114-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-132768/9

Matrix: Water

Analysis Batch: 132768

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	<0.000368	U	0.00100	0.000368 mg/L			11/28/23 15:03	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			11/28/23 15:03	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			11/28/23 15:03	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			11/28/23 15:03	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			11/28/23 15:03	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			11/28/23 15:03	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			11/28/23 15:03	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			11/28/23 15:03	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			11/28/23 15:03	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			11/28/23 15:03	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			11/28/23 15:03	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			11/28/23 15:03	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			11/28/23 15:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		74 - 124				11/28/23 15:03	1
Dibromofluoromethane (Surr)	99		75 - 131				11/28/23 15:03	1
1,2-Dichloroethane-d4 (Surr)	109		63 - 144				11/28/23 15:03	1
Toluene-d8 (Surr)	104		80 - 120				11/28/23 15:03	1

Lab Sample ID: LCSD 860-132768/4

Matrix: Water

Analysis Batch: 132768

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	0.04681		mg/L		94	75 - 125	4	25
Bromobenzene	0.0500	0.05166		mg/L		103	75 - 125	7	25
Bromochloromethane	0.0500	0.04688		mg/L		94	60 - 140	1	25
Bromodichloromethane	0.0500	0.04928		mg/L		99	75 - 125	0	25
Bromoform	0.0500	0.05208		mg/L		104	70 - 130	10	25
Bromomethane	0.0500	0.05546		mg/L		111	60 - 140	11	25
2-Butanone	0.250	0.2245		mg/L		90	60 - 140	14	25
Carbon tetrachloride	0.0500	0.04572		mg/L		91	70 - 130	4	25
Chlorobenzene	0.0500	0.05004		mg/L		100	65 - 135	1	25
Chloroethane	0.0500	0.04233		mg/L		85	60 - 140	15	25
Chloroform	0.0500	0.04486		mg/L		90	70 - 121	5	25
Chloromethane	0.0500	0.04853		mg/L		97	60 - 140	9	25
2-Chlorotoluene	0.0500	0.05001		mg/L		100	73 - 125	6	25
4-Chlorotoluene	0.0500	0.05005		mg/L		100	74 - 125	7	25
cis-1,2-Dichloroethene	0.0500	0.04674		mg/L		93	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.04990		mg/L		100	74 - 125	1	25
Dibromochloromethane	0.0500	0.05517		mg/L		110	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05513		mg/L		110	59 - 125	25	25
1,2-Dibromoethane	0.0500	0.05179		mg/L		104	73 - 125	8	25
1,2-Dichlorobenzene	0.0500	0.05087		mg/L		102	75 - 125	11	25
1,3-Dichlorobenzene	0.0500	0.05227		mg/L		105	75 - 125	9	25
1,4-Dichlorobenzene	0.0500	0.04960		mg/L		99	75 - 125	10	25
Dichlorodifluoromethane	0.0500	0.05327		mg/L		107	50 - 150	10	25

Eurofins Midland

QC Sample Results

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

Job ID: 880-36114-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-132768/4
Matrix: Water
Analysis Batch: 132768

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
1,1-Dichloroethane	0.0500	0.04550		mg/L		91	70 - 130	3	25
1,2-Dichloroethane	0.0500	0.04768		mg/L		95	72 - 130	1	25
1,1-Dichloroethene	0.0500	0.04374		mg/L		87	50 - 150	20	25
1,2-Dichloropropane	0.0500	0.04705		mg/L		94	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.05155		mg/L		103	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.05099		mg/L		102	75 - 125	8	25
1,1-Dichloropropene	0.0500	0.04558		mg/L		91	75 - 125	2	25
Ethylbenzene	0.0500	0.05206		mg/L		104	75 - 125	1	25
Hexachlorobutadiene	0.0500	0.05652		mg/L		113	75 - 125	4	25
Isopropylbenzene	0.0500	0.04854		mg/L		97	75 - 125	1	25
Methylene Chloride	0.0500	0.04444		mg/L		89	71 - 125	3	25
m,p-Xylenes	0.0500	0.05308		mg/L		106	75 - 125	1	25
MTBE	0.0500	0.05263		mg/L		105	65 - 135	0	25
Naphthalene	0.0500	0.05114		mg/L		102	70 - 130	22	25
n-Butylbenzene	0.0500	0.05310		mg/L		106	75 - 125	7	25
N-Propylbenzene	0.0500	0.05072		mg/L		101	75 - 125	6	25
o-Xylene	0.0500	0.05442		mg/L		109	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05511		mg/L		110	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05295		mg/L		106	75 - 125	4	25
Styrene	0.0500	0.05355		mg/L		107	75 - 125	1	25
tert-Butylbenzene	0.0500	0.05539		mg/L		111	75 - 125	7	25
1,1,1,2-Tetrachloroethane	0.0500	0.05262		mg/L		105	72 - 125	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.04542		mg/L		91	74 - 125	17	25
Tetrachloroethene	0.0500	0.05035		mg/L		101	71 - 125	0	25
Toluene	0.0500	0.04919		mg/L		98	70 - 130	1	25
trans-1,2-Dichloroethene	0.0500	0.04925		mg/L		99	75 - 125	7	25
trans-1,3-Dichloropropene	0.0500	0.05434		mg/L		109	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05832		mg/L		117	75 - 137	15	25
1,2,4-Trichlorobenzene	0.0500	0.05695		mg/L		114	75 - 135	12	25
1,1,1-Trichloroethane	0.0500	0.04828		mg/L		97	70 - 130	9	25
1,1,2-Trichloroethane	0.0500	0.04905		mg/L		98	70 - 130	6	25
Trichloroethene	0.0500	0.05091		mg/L		102	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.05468		mg/L		109	60 - 140	2	25
1,2,3-Trichloropropane	0.0500	0.04793		mg/L		96	75 - 125	19	25
1,2,4-Trimethylbenzene	0.0500	0.05396		mg/L		108	75 - 125	8	25
1,3,5-Trimethylbenzene	0.0500	0.05256		mg/L		105	60 - 140	7	25
Vinyl chloride	0.0500	0.04781		mg/L		96	60 - 140	12	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	92		75 - 131
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

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

Job ID: 880-36114-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-132805/13

Matrix: Water

Analysis Batch: 132805

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			11/28/23 21:45	1
Chloride	<0.250	U	0.500	0.250 mg/L			11/28/23 21:45	1
Fluoride	<0.100	U	0.500	0.100 mg/L			11/28/23 21:45	1
Sulfate	<0.200	U	0.500	0.200 mg/L			11/28/23 21:45	1

Lab Sample ID: LCS 860-132805/14

Matrix: Water

Analysis Batch: 132805

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	9.884		mg/L		99	90 - 110
Chloride	10.0	9.946		mg/L		99	90 - 110
Fluoride	10.0	10.19		mg/L		102	90 - 110
Sulfate	10.0	10.06		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-132805/15

Matrix: Water

Analysis Batch: 132805

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	9.877		mg/L		99	90 - 110	0	20
Chloride	10.0	9.938		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.04		mg/L		100	90 - 110	1	20
Sulfate	10.0	10.05		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-132805/17

Matrix: Water

Analysis Batch: 132805

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	0.5013		mg/L		100	50 - 150
Chloride	0.500	0.7118		mg/L		142	50 - 150
Fluoride	0.500	0.4582	J	mg/L		92	50 - 150
Sulfate	0.500	0.4881	J	mg/L		98	50 - 150

Lab Sample ID: MB 860-132806/13

Matrix: Water

Analysis Batch: 132806

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			11/28/23 21:45	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			11/28/23 21:45	1

Lab Sample ID: LCS 860-132806/14

Matrix: Water

Analysis Batch: 132806

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	9.941		mg/L		99	80 - 120
Nitrite as N	10.0	9.781		mg/L		98	80 - 120

Eurofins Midland

QC Sample Results

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

Job ID: 880-36114-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 860-132806/15						Client Sample ID: Lab Control Sample Dup					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 132806											
			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Nitrate as N			10.0	9.925		mg/L		99	80 - 120	0	20
Nitrite as N			10.0	9.816		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-132806/16						Client Sample ID: Lab Control Sample				
Matrix: Water						Prep Type: Total/NA				
Analysis Batch: 132806										
				Spike	LLCS	LLCS			%Rec	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits
Nitrate as N				0.100	0.1196		mg/L		120	50 - 150
Nitrite as N				0.100	0.06934	J	mg/L		69	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-132952/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total Recoverable			
Analysis Batch: 133170						Prep Batch: 132952			
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Calcium	<0.115	U	0.200	0.115 mg/L		11/29/23 11:30	11/29/23 22:32	1	
Magnesium	<0.0428	U	0.200	0.0428 mg/L		11/29/23 11:30	11/29/23 22:32	1	
Potassium	<0.0914	U	0.500	0.0914 mg/L		11/29/23 11:30	11/29/23 22:32	1	
Sodium	<0.152	U	0.500	0.152 mg/L		11/29/23 11:30	11/29/23 22:32	1	
SiO2	<0.471	U	1.07	0.471 mg/L		11/29/23 11:30	11/29/23 22:32	1	

Lab Sample ID: LCS 860-132952/2-A						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total Recoverable			
Analysis Batch: 133170						Prep Batch: 132952			
				Spike	LCS				
Analyte				Added	Result	Qualifier	Unit	D	%Rec
									Limits
Calcium				25.0	24.10		mg/L		96
									85 - 115
Magnesium				25.0	23.40		mg/L		94
									85 - 115
Potassium				10.0	9.570		mg/L		96
									85 - 115
Sodium				25.0	24.20		mg/L		97
									85 - 115
SiO2				21.4	20.57		mg/L		96
									85 - 115

Lab Sample ID: LCSD 860-132952/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Water					Prep Type: Total Recoverable						
Analysis Batch: 133170					Prep Batch: 132952						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD		
							Limits		RPD	Limits	
Calcium	25.0	24.10		mg/L		96	85 - 115		0	20	
Magnesium	25.0	23.40		mg/L		94	85 - 115		0	20	
Potassium	10.0	9.630		mg/L		96	85 - 115		1	20	
Sodium	25.0	24.30		mg/L		97	85 - 115		0	20	
SiO2	21.4	20.65		mg/L		97	85 - 115		0	20	

QC Sample Results

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

Job ID: 880-36114-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-132952/4-A

Matrix: Water

Analysis Batch: 133170

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 132952

Analyte	Spike		LLCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result				Limits	
Calcium	0.200	0.1600	J		mg/L		80	50 - 150	
Magnesium	0.200	0.1960	J		mg/L		98	50 - 150	
Potassium	0.500	0.5070			mg/L		101	50 - 150	
Sodium	0.500	0.5430			mg/L		109	50 - 150	
SiO2	1.07	1.106			mg/L		103	50 - 150	

Lab Sample ID: 880-36114-1 MS

Matrix: Water

Analysis Batch: 133170

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 132952

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Calcium	273	E	25.0	298.0	E 4	mg/L		100	70 - 130	
Magnesium	52.9		25.0	77.90		mg/L		100	70 - 130	
Potassium	4.51		10.0	15.40		mg/L		109	70 - 130	
Sodium	89.0		25.0	116.0		mg/L		108	70 - 130	
SiO2	69.1		21.4	92.45		mg/L		109	70 - 130	

Lab Sample ID: 880-36114-1 MSD

Matrix: Water

Analysis Batch: 133170

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 132952

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits		RPD	Limit
Calcium	273	E	25.0	298.0	E 4	mg/L		100	70 - 130		0	20
Magnesium	52.9		25.0	78.00		mg/L		100	70 - 130		0	20
Potassium	4.51		10.0	15.50		mg/L		110	70 - 130		1	20
Sodium	89.0		25.0	116.0		mg/L		108	70 - 130		0	20
SiO2	69.1		21.4	92.45		mg/L		109	70 - 130		0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-132984/3

Matrix: Water

Analysis Batch: 132984

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			11/29/23 10:05	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/29/23 10:05	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			11/29/23 10:05	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			11/29/23 10:05	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			11/29/23 10:05	1

Lab Sample ID: LCS 860-132984/4

Matrix: Water

Analysis Batch: 132984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result				Limits	
Alkalinity	250	262.2			mg/L		105	85 - 115	

Eurofins Midland

QC Sample Results

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

Job ID: 880-36114-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-132984/5

Matrix: Water

Analysis Batch: 132984

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	255.0		mg/L		102	85 - 115	3	20

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

Lab Sample ID: MB 860-132935/1

Matrix: Water

Analysis Batch: 132935

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			11/29/23 10:22	1

Lab Sample ID: LCS 860-132935/2

Matrix: Water

Analysis Batch: 132935

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	996.0		mg/L		100	80 - 120	

Lab Sample ID: LCSD 860-132935/3

Matrix: Water

Analysis Batch: 132935

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	1004		mg/L		100	80 - 120	1	10

Lab Sample ID: LLCS 860-132935/26

Matrix: Water

Analysis Batch: 132935

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		80	50 - 150	

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-36114-1 DU

Matrix: Water

Analysis Batch: 133180

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.3	HF	6.3		SU		0.3	20
Temperature	14.0	HF	13.5		Degrees C		4	20

QC Association Summary

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

Job ID: 880-36114-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 132768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total/NA	Water	8260C	
MB 860-132768/9	Method Blank	Total/NA	Water	8260C	
LCSD 860-132768/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 132805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total/NA	Water	300.0	
MB 860-132805/13	Method Blank	Total/NA	Water	300.0	
LCS 860-132805/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-132805/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-132805/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 132806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total/NA	Water	300.0	
MB 860-132806/13	Method Blank	Total/NA	Water	300.0	
LCS 860-132806/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-132806/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-132806/16	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 132952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-132952/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-132952/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-132952/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-132952/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-36114-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-36114-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 133170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	132952
880-36114-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	132952
MB 860-132952/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	132952
LCS 860-132952/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	132952
LCSD 860-132952/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	132952
LLCS 860-132952/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	132952
880-36114-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	132952
880-36114-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	132952

General Chemistry

Analysis Batch: 132935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-132935/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-132935/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Midland

QC Association Summary

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

Job ID: 880-36114-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 132935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-132935/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-132935/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 132984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-132984/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-132984/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-132984/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 133180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-36114-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 133238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36114-1	Levey Well	Total/NA	Water	SM 1030E	

Lab Chronicle

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

Job ID: 880-36114-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-36114-1

Date Collected: 11/27/23 10:00

Matrix: Water

Date Received: 11/27/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	132768	AN	EET HOU	11/28/23 16:38
Total/NA	Analysis	300.0		1	132805	RBNS	EET HOU	11/29/23 03:51
Total/NA	Analysis	300.0		1	132806	RBNS	EET HOU	11/29/23 03:51
Total Recoverable	Prep	200.7			132952	MD	EET HOU	11/29/23 11:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	133170	DP	EET HOU	11/29/23 22:43
Total Recoverable	Prep	200.7			132952	MD	EET HOU	11/29/23 11:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	133170	DP	EET HOU	11/29/23 23:01
Total/NA	Analysis	SM 1030E		1	133238	MC	EET HOU	11/30/23 19:26
Total/NA	Analysis	SM 2320B		1	132984	KEG	EET HOU	11/29/23 12:01
Total/NA	Analysis	SM 2540C		1	132935	SA	EET HOU	11/29/23 10:22
Total/NA	Analysis	SM 4500 H+ B		1	133180	KEG	EET HOU	11/30/23 13:56

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: 880-36114-1
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	T104704215-23-53	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: 880-36114-1
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: 880-36114-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36114-1	Levey Well	Water	11/27/23 10:00	11/27/23 14:35

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

W01



880-36114 Chain of Custody

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

Program: UST/PT	☐ 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		ANALYSIS REQUEST										Work Order Notes								
Project Number:	03B1417001		☐ Routine	☐ Rush 24 hr																			
P.O. Number:	03B1417001																						
Sampler's Name:	Shane Diller		Due Date:																				
SAMPLE RECEIPT																							
Temperature (°C):	7.47.6	Temp Blank:	☒ Yes	☒ No	Wet Log:	☒ Yes	☒ No	Thermometer ID	CL8														
Received In tact:	Yes	No	☒	☐	Correction Factor:	1.20																	
Cooler Custody Seals:	Yes	No	☒	☐	Total Containers:	1																	
Sample Custody Seals:	Yes	No	☒	☐																			
Sample Identification																							
Levey Well	GW	Matrix	Date Sampled	Time Sampled	Depth																		
			11-27-23	1000	7	VOCs	X	Anions: F, Cl, SO4, B	X	Cations: Ca, K, Mg, Na, Si	X	pH	X	Alkalinity	X	TDS	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
		11/27/23			2
		1435			4
					6

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: 880-36114-1
SDG Number: Hobbs NM

Login Number: 36114
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: 880-36114-1

SDG Number: Hobbs NM

Login Number: 36114

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/28/23 02:06 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?	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	



ANALYTICAL REPORT

November 21, 2023

Ensolum, LLC

Sample Delivery Group: L1675114
Samples Received: 11/08/2023
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

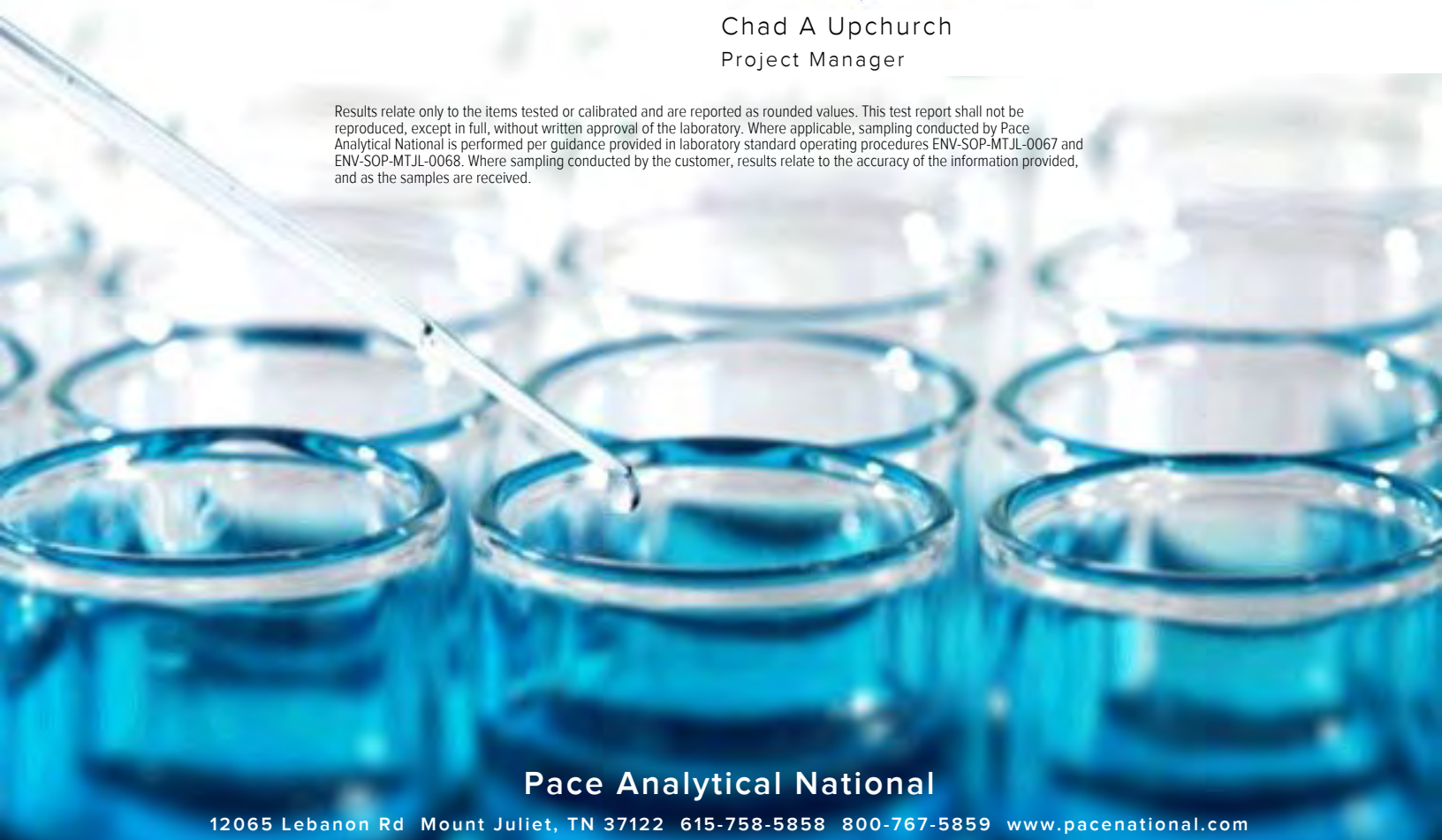


Entire Report Reviewed By:

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 L1675114-01	9	⁶ Sr
LEVEY WELL L1675114-02	11	
LEVEY WELL L1675114-03	13	⁷ Qc
LEVEY WELL L1675114-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	26	
Al: Accreditations & Locations	27	¹⁰ Sc
Sc: Sample Chain of Custody	28	

LEVEY WELL L1675114-01 Air

Collected by
Shane D.

Collected date/time
11/06/23 09:17

Received date/time
11/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2169453	100	11/11/23 21:35	11/11/23 21:35	SDS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

LEVEY WELL L1675114-02 Air

Collected by
Shane D.

Collected date/time
11/06/23 11:03

Received date/time
11/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2167915	1	11/10/23 02:28	11/10/23 02:28	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2169378	20	11/11/23 18:54	11/11/23 18:54	DBB	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

LEVEY WELL L1675114-03 Air

Collected by
Shane D.

Collected date/time
11/06/23 12:19

Received date/time
11/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2167915	1	11/10/23 03:10	11/10/23 03:10	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2169378	20	11/11/23 17:39	11/11/23 17:39	DBB	Mt. Juliet, TN

⁷Qc

⁸Gl

⁹Al

LEVEY WELL L1675114-04 Air

Collected by
Shane D.

Collected date/time
11/06/23 13:17

Received date/time
11/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2167915	1	11/10/23 03:52	11/10/23 03:52	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2169378	10	11/11/23 15:47	11/11/23 15:47	DBB	Mt. Juliet, TN

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.



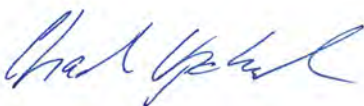
Chad A Upchurch
Project Manager

- 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: 11/21/2023 16:51				
Project Name: Levey Well			Laboratory Job Number: L1675114-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2167915, WG2169453 and WG2169378				
# 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			1
		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: 11/21/2023 16:51				
Project Name: Levey Well			Laboratory Job Number: L1675114-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2167915, WG2169453 and WG2169378				
# 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: 11/21/2023 16:51	
Project Name: Levey Well		Laboratory Job Number: L1675114-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2167915, WG2169453 and WG2169378	
ER #¹	Description		
1	TO-15 WG2169453 L1675114-01: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).		
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: 11/06/23 09:17

L1675114

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	753	1790		100	WG2169453
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2169453
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2169453
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2169453
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2169453
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2169453
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2169453
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2169453
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2169453
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2169453
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2169453
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2169453
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2169453
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2169453
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2169453
Cyclohexane	110-82-7	84.20	20.0	68.9	4310	14800		100	WG2169453
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2169453
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2169453
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2169453
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2169453
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2169453
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2169453
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2169453
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2169453
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2169453
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2169453
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2169453
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2169453
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2169453
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2169453
Ethanol	64-17-5	46.10	250	471	740	1400	B	100	WG2169453
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2169453
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2169453
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2169453
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2169453
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2169453
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2169453
Heptane	142-82-5	100	20.0	81.8	3510	14400		100	WG2169453
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2169453
n-Hexane	110-54-3	86.20	63.0	222	37600	133000	E	100	WG2169453
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2169453
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2169453
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2169453
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2169453
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2169453
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2169453
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2169453
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2169453
2-Propanol	67-63-0	60.10	125	307	562	1380		100	WG2169453
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2169453
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2169453
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2169453
Tetrachloroethylene	127-18-4	166	20.0	136	27.3	185		100	WG2169453
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2169453
Toluene	108-88-3	92.10	50.0	188	ND	ND		100	WG2169453
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2169453

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 11/06/23 09:17

L1675114

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	WG2169453
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2169453
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2169453
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2169453
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2169453
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2169453
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2169453
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2169453
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2169453
m&p-Xylene	1330-20-7	106	40.0	173	49.8	216		100	WG2169453
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2169453
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	108000	446000		100	WG2169453
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		86.9				WG2169453

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 11/06/23 11:03

L1675114

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	1.25	2.97	22.9	54.4		1	WG2167915
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2167915
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2167915
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2167915
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2167915
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2167915
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2167915
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2167915
Carbon disulfide	75-15-0	76.10	0.200	0.622	7.20	22.4		1	WG2167915
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2167915
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2167915
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2167915
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2167915
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2167915
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2167915
Cyclohexane	110-82-7	84.20	4.00	13.8	207	713		20	WG2169378
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2167915
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2167915
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2167915
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2167915
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2167915
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2167915
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2167915
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2167915
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2167915
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2167915
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2167915
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2167915
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2167915
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2167915
Ethanol	64-17-5	46.10	2.50	4.71	43.9	82.8		1	WG2167915
Ethylbenzene	100-41-4	106	0.200	0.867	20.2	87.6		1	WG2167915
4-Ethyltoluene	622-96-8	120	0.200	0.982	5.71	28.0		1	WG2167915
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2167915
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.527	2.61		1	WG2167915
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2167915
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2167915
Heptane	142-82-5	100	4.00	16.4	275	1120		20	WG2169378
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2167915
n-Hexane	110-54-3	86.20	12.6	44.4	978	3450		20	WG2169378
Isopropylbenzene	98-82-8	120.20	0.200	0.983	2.65	13.0		1	WG2167915
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2167915
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2167915
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	4.33	12.8		1	WG2167915
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2167915
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2167915
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2167915
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2167915
2-Propanol	67-63-0	60.10	1.25	3.07	10.5	25.8		1	WG2167915
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2167915
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2167915
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2167915
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2167915
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2167915
Toluene	108-88-3	92.10	0.500	1.88	80.8	304		1	WG2167915
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2167915

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Collected date/time: 11/06/23 11:03

L1675114

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	0.200	1.09	ND	ND		1	WG2167915
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2167915
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2167915
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	3.79	18.6		1	WG2167915
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	2.58	12.7		1	WG2167915
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2167915
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2167915
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2167915
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2167915
m&p-Xylene	1330-20-7	106	0.400	1.73	37.5	163		1	WG2167915
o-Xylene	95-47-6	106	0.200	0.867	12.3	53.3		1	WG2167915
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	5970	24700		20	WG2169378
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2167915
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.7				WG2169378

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Collected date/time: 11/06/23 12:19

L1675114

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	1.25	2.97	18.2	43.2		1	WG2167915
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2167915
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2167915
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2167915
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2167915
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2167915
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2167915
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2167915
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.27	7.07		1	WG2167915
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2167915
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2167915
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2167915
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2167915
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2167915
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2167915
Cyclohexane	110-82-7	84.20	0.200	0.689	95.5	329		1	WG2167915
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2167915
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2167915
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2167915
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2167915
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2167915
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2167915
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2167915
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2167915
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2167915
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2167915
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2167915
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2167915
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2167915
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2167915
Ethanol	64-17-5	46.10	2.50	4.71	44.9	84.7		1	WG2167915
Ethylbenzene	100-41-4	106	0.200	0.867	0.542	2.35		1	WG2167915
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.786	3.86		1	WG2167915
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2167915
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.403	1.99		1	WG2167915
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2167915
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2167915
Heptane	142-82-5	100	0.200	0.818	85.0	348		1	WG2167915
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2167915
n-Hexane	110-54-3	86.20	12.6	44.4	462	1630		20	WG2169378
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2167915
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2167915
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2167915
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.91	11.5		1	WG2167915
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2167915
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2167915
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2167915
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2167915
2-Propanol	67-63-0	60.10	1.25	3.07	7.83	19.2		1	WG2167915
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2167915
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2167915
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2167915
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2167915
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2167915
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2167915
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2167915

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Collected date/time: 11/06/23 12:19

L1675114

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	0.200	1.09	ND	ND		1	WG2167915
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2167915
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2167915
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.588	2.89		1	WG2167915
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.442	2.17		1	WG2167915
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2167915
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2167915
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2167915
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2167915
m&p-Xylene	1330-20-7	106	0.400	1.73	1.37	5.94		1	WG2167915
o-Xylene	95-47-6	106	0.200	0.867	0.723	3.13		1	WG2167915
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	3260	13500		1	WG2167915
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.5				WG2167915
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.6				WG2169378

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Collected date/time: 11/06/23 13:17

L1675114

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	1.25	2.97	19.5	46.3		1	WG2167915
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2167915
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2167915
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2167915
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2167915
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2167915
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2167915
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2167915
Carbon disulfide	75-15-0	76.10	0.200	0.622	1.94	6.04		1	WG2167915
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2167915
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2167915
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2167915
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2167915
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2167915
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2167915
Cyclohexane	110-82-7	84.20	0.200	0.689	83.8	289		1	WG2167915
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2167915
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2167915
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2167915
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2167915
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2167915
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2167915
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2167915
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2167915
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2167915
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2167915
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2167915
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2167915
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2167915
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2167915
Ethanol	64-17-5	46.10	2.50	4.71	37.4	70.5		1	WG2167915
Ethylbenzene	100-41-4	106	0.200	0.867	3.91	17.0		1	WG2167915
4-Ethyltoluene	622-96-8	120	0.200	0.982	2.31	11.3		1	WG2167915
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.231	1.30		1	WG2167915
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.364	1.80		1	WG2167915
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2167915
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2167915
Heptane	142-82-5	100	0.200	0.818	96.6	395		1	WG2167915
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2167915
n-Hexane	110-54-3	86.20	6.30	22.2	714	2520		10	WG2169378
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.664	3.26		1	WG2167915
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2167915
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2167915
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.50	10.3		1	WG2167915
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2167915
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2167915
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2167915
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2167915
2-Propanol	67-63-0	60.10	1.25	3.07	12.9	31.7		1	WG2167915
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2167915
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2167915
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2167915
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2167915
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2167915
Toluene	108-88-3	92.10	0.500	1.88	11.5	43.3		1	WG2167915
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2167915

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Collected date/time: 11/06/23 13:17

L1675114

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	0.200	1.09	ND	ND		1	WG2167915
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2167915
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2167915
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.81	8.88		1	WG2167915
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.30	6.38		1	WG2167915
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2167915
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2167915
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2167915
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2167915
m&p-Xylene	1330-20-7	106	0.400	1.73	9.12	39.5		1	WG2167915
o-Xylene	95-47-6	106	0.200	0.867	3.31	14.4		1	WG2167915
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	3170	13100		1	WG2167915
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2167915
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2169378

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3997874-3 11/09/23 11:12

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	0.630
Ethanol	1.20	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

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3997874-3 11/09/23 11:12

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
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	0.122	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	0.630
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	97.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3997874-1 11/09/23 09:49 • (LCSD) R3997874-2 11/09/23 10:31

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	3.96	3.82	106	102	70.0-130			3.60	25
Allyl chloride	3.75	4.15	4.56	111	122	70.0-130			9.41	25
Benzene	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
Benzyl Chloride	3.75	3.76	3.69	100	98.4	70.0-152			1.88	25
Bromodichloromethane	3.75	3.94	3.86	105	103	70.0-130			2.05	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3997874-1 11/09/23 09:49 • (LCSD) R3997874-2 11/09/23 10:31

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 %
Bromoform	3.75	3.74	3.86	99.7	103	70.0-130			3.16	25
Bromomethane	3.75	3.92	3.93	105	105	70.0-130			0.255	25
1,3-Butadiene	3.75	3.35	3.52	89.3	93.9	70.0-130			4.95	25
Carbon disulfide	3.75	3.87	3.90	103	104	70.0-130			0.772	25
Carbon tetrachloride	3.75	4.09	3.97	109	106	70.0-130			2.98	25
Chlorobenzene	3.75	3.89	4.02	104	107	70.0-130			3.29	25
Chloroethane	3.75	3.71	3.72	98.9	99.2	70.0-130			0.269	25
Chloroform	3.75	3.81	3.83	102	102	70.0-130			0.524	25
Chloromethane	3.75	3.89	3.79	104	101	70.0-130			2.60	25
2-Chlorotoluene	3.75	3.87	3.81	103	102	70.0-130			1.56	25
Cyclohexane	3.75	3.81	4.00	102	107	70.0-130			4.87	25
Dibromochloromethane	3.75	3.94	3.97	105	106	70.0-130			0.759	25
1,2-Dibromoethane	3.75	3.84	3.80	102	101	70.0-130			1.05	25
1,2-Dichlorobenzene	3.75	3.97	3.99	106	106	70.0-130			0.503	25
1,3-Dichlorobenzene	3.75	3.91	3.98	104	106	70.0-130			1.77	25
1,4-Dichlorobenzene	3.75	3.98	3.92	106	105	70.0-130			1.52	25
1,2-Dichloroethane	3.75	3.84	4.07	102	109	70.0-130			5.82	25
1,1-Dichloroethane	3.75	3.80	3.89	101	104	70.0-130			2.34	25
1,1-Dichloroethene	3.75	3.65	3.79	97.3	101	70.0-130			3.76	25
cis-1,2-Dichloroethene	3.75	3.72	3.89	99.2	104	70.0-130			4.47	25
trans-1,2-Dichloroethene	3.75	3.83	3.77	102	101	70.0-130			1.58	25
1,2-Dichloropropane	3.75	3.67	3.85	97.9	103	70.0-130			4.79	25
cis-1,3-Dichloropropene	3.75	3.81	3.73	102	99.5	70.0-130			2.12	25
trans-1,3-Dichloropropene	3.75	3.56	3.77	94.9	101	70.0-130			5.73	25
1,4-Dioxane	3.75	4.17	3.73	111	99.5	70.0-140			11.1	25
Ethanol	3.75	4.74	4.88	126	130	55.0-148			2.91	25
Ethylbenzene	3.75	3.75	3.82	100	102	70.0-130			1.85	25
4-Ethyltoluene	3.75	3.82	3.80	102	101	70.0-130			0.525	25
Trichlorofluoromethane	3.75	4.04	4.03	108	107	70.0-130			0.248	25
Dichlorodifluoromethane	3.75	3.36	3.62	89.6	96.5	64.0-139			7.45	25
1,1,2-Trichlorotrifluoroethane	3.75	3.93	4.05	105	108	70.0-130			3.01	25
1,2-Dichlorotetrafluoroethane	3.75	3.81	3.88	102	103	70.0-130			1.82	25
Heptane	3.75	3.87	3.73	103	99.5	70.0-130			3.68	25
Hexachloro-1,3-butadiene	3.75	3.87	4.05	103	108	70.0-151			4.55	25
Isopropylbenzene	3.75	3.86	4.03	103	107	70.0-130			4.31	25
Methylene Chloride	3.75	3.65	3.73	97.3	99.5	70.0-130			2.17	25
Methyl Butyl Ketone	3.75	3.81	3.81	102	102	70.0-149			0.000	25
2-Butanone (MEK)	3.75	3.68	3.64	98.1	97.1	70.0-130			1.09	25
4-Methyl-2-pentanone (MIBK)	3.75	3.68	3.87	98.1	103	70.0-139			5.03	25
Methyl methacrylate	3.75	3.74	3.48	99.7	92.8	70.0-130			7.20	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3997874-1 11/09/23 09:49 • (LCSD) R3997874-2 11/09/23 10:31

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 %
MTBE	3.75	3.64	3.73	97.1	99.5	70.0-130			2.44	25
Naphthalene	3.75	3.99	4.00	106	107	70.0-159			0.250	25
2-Propanol	3.75	4.12	4.03	110	107	70.0-139			2.21	25
Propene	3.75	3.68	3.77	98.1	101	64.0-144			2.42	25
Styrene	3.75	3.84	3.89	102	104	70.0-130			1.29	25
1,1,2,2-Tetrachloroethane	3.75	3.88	3.99	103	106	70.0-130			2.80	25
Tetrachloroethylene	3.75	4.07	4.10	109	109	70.0-130			0.734	25
Tetrahydrofuran	3.75	3.87	3.83	103	102	70.0-137			1.04	25
Toluene	3.75	3.72	3.84	99.2	102	70.0-130			3.17	25
1,2,4-Trichlorobenzene	3.75	3.93	3.83	105	102	70.0-160			2.58	25
1,1,1-Trichloroethane	3.75	3.90	4.07	104	109	70.0-130			4.27	25
1,1,2-Trichloroethane	3.75	3.84	3.85	102	103	70.0-130			0.260	25
Trichloroethylene	3.75	3.60	3.65	96.0	97.3	70.0-130			1.38	25
1,2,4-Trimethylbenzene	3.75	3.81	3.90	102	104	70.0-130			2.33	25
1,3,5-Trimethylbenzene	3.75	4.68	4.66	125	124	70.0-130			0.428	25
2,2,4-Trimethylpentane	3.75	3.83	3.79	102	101	70.0-130			1.05	25
Vinyl chloride	3.75	3.48	3.73	92.8	99.5	70.0-130			6.93	25
Vinyl Bromide	3.75	3.93	4.15	105	111	70.0-130			5.45	25
Vinyl acetate	3.75	3.42	3.64	91.2	97.1	70.0-130			6.23	25
m&p-Xylene	7.50	7.53	7.91	100	105	70.0-130			4.92	25
o-Xylene	3.75	3.72	3.93	99.2	105	70.0-130			5.49	25
TPH (GC/MS) Low Fraction	188	159	161	84.6	85.6	70.0-130			1.25	25
(S) 1,4-Bromofluorobenzene				101	101	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1675114-02,03,04](#)

Method Blank (MB)

(MB) R3999127-3 11/11/23 09:39

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
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	102			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3999127-1 11/11/23 08:17 • (LCSD) R3999127-2 11/11/23 08:59

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	4.07	4.07	109	109	70.0-130			0.000	25
Heptane	3.75	4.02	4.08	107	109	70.0-130			1.48	25
n-Hexane	3.75	4.03	3.98	107	106	70.0-130			1.25	25
TPH (GC/MS) Low Fraction	188	190	192	101	102	70.0-130			1.05	25
(S) 1,4-Bromofluorobenzene				100	99.8	60.0-140				

Method Blank (MB)

(MB) R3998894-3 11/11/23 15:58

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	0.630
Ethanol	1.53	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

L1675114-01

Method Blank (MB)

(MB) R3998894-3 11/11/23 15:58

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	0.630
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	84.1			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3998894-1 11/11/23 13:48 • (LCSD) R3998894-2 11/11/23 14:29

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	3.31	3.33	88.3	88.8	70.0-130			0.602	25
Allyl chloride	3.75	2.87	3.04	76.5	81.1	70.0-130			5.75	25
Benzene	3.75	3.62	3.71	96.5	98.9	70.0-130			2.46	25
Benzyl Chloride	3.75	3.59	3.63	95.7	96.8	70.0-152			1.11	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3998894-1 11/11/23 13:48 • (LCSD) R3998894-2 11/11/23 14:29

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 %
Bromodichloromethane	3.75	3.78	3.81	101	102	70.0-130			0.791	25
Bromoform	3.75	3.74	4.05	99.7	108	70.0-130			7.96	25
Bromomethane	3.75	4.11	3.90	110	104	70.0-130			5.24	25
1,3-Butadiene	3.75	3.98	3.84	106	102	70.0-130			3.58	25
Carbon disulfide	3.75	3.23	3.21	86.1	85.6	70.0-130			0.621	25
Carbon tetrachloride	3.75	4.18	4.11	111	110	70.0-130			1.69	25
Chlorobenzene	3.75	4.85	4.41	129	118	70.0-130			9.50	25
Chloroethane	3.75	4.39	4.21	117	112	70.0-130			4.19	25
Chloroform	3.75	3.68	3.64	98.1	97.1	70.0-130			1.09	25
Chloromethane	3.75	3.90	4.22	104	113	70.0-130			7.88	25
2-Chlorotoluene	3.75	3.49	3.61	93.1	96.3	70.0-130			3.38	25
Cyclohexane	3.75	3.83	3.78	102	101	70.0-130			1.31	25
Dibromochloromethane	3.75	4.33	4.41	115	118	70.0-130			1.83	25
1,2-Dibromoethane	3.75	4.63	4.03	123	107	70.0-130			13.9	25
1,2-Dichlorobenzene	3.75	3.85	3.83	103	102	70.0-130			0.521	25
1,3-Dichlorobenzene	3.75	4.05	3.69	108	98.4	70.0-130			9.30	25
1,4-Dichlorobenzene	3.75	4.02	3.79	107	101	70.0-130			5.89	25
1,2-Dichloroethane	3.75	3.75	3.82	100	102	70.0-130			1.85	25
1,1-Dichloroethane	3.75	3.48	3.75	92.8	100	70.0-130			7.47	25
1,1-Dichloroethene	3.75	3.52	3.58	93.9	95.5	70.0-130			1.69	25
cis-1,2-Dichloroethene	3.75	3.43	3.45	91.5	92.0	70.0-130			0.581	25
trans-1,2-Dichloroethene	3.75	3.45	3.43	92.0	91.5	70.0-130			0.581	25
1,2-Dichloropropane	3.75	3.48	3.55	92.8	94.7	70.0-130			1.99	25
cis-1,3-Dichloropropene	3.75	3.74	3.79	99.7	101	70.0-130			1.33	25
trans-1,3-Dichloropropene	3.75	3.88	3.77	103	101	70.0-130			2.88	25
1,4-Dioxane	3.75	3.81	4.00	102	107	70.0-140			4.87	25
Ethanol	3.75	5.06	4.90	135	131	55.0-148			3.21	25
Ethylbenzene	3.75	3.79	3.83	101	102	70.0-130			1.05	25
4-Ethyltoluene	3.75	3.61	3.73	96.3	99.5	70.0-130			3.27	25
Trichlorofluoromethane	3.75	4.44	4.23	118	113	70.0-130			4.84	25
Dichlorodifluoromethane	3.75	3.94	4.16	105	111	64.0-139			5.43	25
1,1,2-Trichlorotrifluoroethane	3.75	3.87	3.78	103	101	70.0-130			2.35	25
1,2-Dichlorotetrafluoroethane	3.75	3.72	4.27	99.2	114	70.0-130			13.8	25
Heptane	3.75	3.56	3.54	94.9	94.4	70.0-130			0.563	25
Hexachloro-1,3-butadiene	3.75	3.84	3.69	102	98.4	70.0-151			3.98	25
n-Hexane	3.75	3.45	3.36	92.0	89.6	70.0-130			2.64	25
Isopropylbenzene	3.75	3.69	3.85	98.4	103	70.0-130			4.24	25
Methylene Chloride	3.75	3.36	3.24	89.6	86.4	70.0-130			3.64	25
Methyl Butyl Ketone	3.75	3.89	3.58	104	95.5	70.0-149			8.30	25
2-Butanone (MEK)	3.75	3.64	3.63	97.1	96.8	70.0-130			0.275	25

Cp

Tc

Ss

Cn

Tr

Sr

Qc

Gl

Al

Sc

Volatile Organic Compounds (MS) by Method TO-15

L1675114-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3998894-1 11/11/23 13:48 • (LCSD) R3998894-2 11/11/23 14:29

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	3.47	3.44	92.5	91.7	70.0-139			0.868	25
Methyl methacrylate	3.75	3.58	3.42	95.5	91.2	70.0-130			4.57	25
MTBE	3.75	3.67	3.61	97.9	96.3	70.0-130			1.65	25
Naphthalene	3.75	3.49	3.52	93.1	93.9	70.0-159			0.856	25
2-Propanol	3.75	3.49	3.41	93.1	90.9	70.0-139			2.32	25
Propene	3.75	3.26	3.45	86.9	92.0	64.0-144			5.66	25
Styrene	3.75	3.95	4.01	105	107	70.0-130			1.51	25
1,1,2,2-Tetrachloroethane	3.75	3.34	3.28	89.1	87.5	70.0-130			1.81	25
Tetrachloroethylene	3.75	4.60	4.42	123	118	70.0-130			3.99	25
Tetrahydrofuran	3.75	3.15	3.16	84.0	84.3	70.0-137			0.317	25
Toluene	3.75	3.96	3.93	106	105	70.0-130			0.760	25
1,2,4-Trichlorobenzene	3.75	3.85	3.60	103	96.0	70.0-160			6.71	25
1,1,1-Trichloroethane	3.75	3.86	3.80	103	101	70.0-130			1.57	25
1,1,2-Trichloroethane	3.75	3.91	3.85	104	103	70.0-130			1.55	25
Trichloroethylene	3.75	3.79	3.85	101	103	70.0-130			1.57	25
1,2,4-Trimethylbenzene	3.75	3.83	3.62	102	96.5	70.0-130			5.64	25
1,3,5-Trimethylbenzene	3.75	3.66	3.85	97.6	103	70.0-130			5.06	25
2,2,4-Trimethylpentane	3.75	3.64	3.75	97.1	100	70.0-130			2.98	25
Vinyl chloride	3.75	4.11	3.93	110	105	70.0-130			4.48	25
Vinyl Bromide	3.75	4.35	4.20	116	112	70.0-130			3.51	25
Vinyl acetate	3.75	3.15	2.97	84.0	79.2	70.0-130			5.88	25
m&p-Xylene	7.50	8.09	7.90	108	105	70.0-130			2.38	25
o-Xylene	3.75	3.56	3.89	94.9	104	70.0-130			8.86	25
TPH (GC/MS) Low Fraction	188	183	171	97.3	91.0	70.0-130			6.78	25
(S) 1,4-Bromofluorobenzene				89.6	88.1	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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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

Released to Imaging: 4/22/2024 11:24:11 AM



ANALYTICAL REPORT

November 27, 2023

Ensolum, LLC

Sample Delivery Group: L1679724
Samples Received: 11/18/2023
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 L1679724-01	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 L1679724-01 Air

Collected by
Shane Diller

Collected date/time
11/16/23 10:55

Received date/time
11/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2174583	100	11/21/23 01:38	11/21/23 01:38	GH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2176220	10000	11/22/23 21:43	11/22/23 21:43	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.



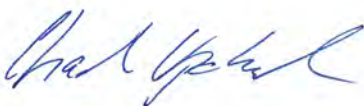
Chad A Upchurch
Project Manager

- 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: 11/27/2023 16:15				
Project Name: Levey Well			Laboratory Job Number: L1679724-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2174583 and WG2176220				
# 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			1
		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: 11/27/2023 16:15				
Project Name: Levey Well			Laboratory Job Number: L1679724-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2174583 and WG2176220				
# 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: 11/27/2023 16:15	
Project Name: Levey Well		Laboratory Job Number: L1679724-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2174583 and WG2176220	
ER # ¹	Description		
1	TO-15 WG2174583 Allyl chloride: Percent Recovery 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: 11/16/23 10:55

L1679724

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	2110	5010		100	WG2174583
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND	J4	100	WG2174583
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2174583
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2174583
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2174583
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2174583
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2174583
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2174583
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2174583
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2174583
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2174583
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2174583
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2174583
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2174583
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2174583
Cyclohexane	110-82-7	84.20	2000	6890	24400	84000		10000	WG2176220
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2174583
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2174583
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2174583
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2174583
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2174583
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2174583
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2174583
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2174583
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2174583
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2174583
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2174583
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2174583
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2174583
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2174583
Ethanol	64-17-5	46.10	250	471	1490	2810		100	WG2174583
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2174583
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2174583
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2174583
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2174583
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2174583
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2174583
Heptane	142-82-5	100	2000	8180	14400	58900		10000	WG2176220
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2174583
n-Hexane	110-54-3	86.20	6300	22200	345000	1220000		10000	WG2176220
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2174583
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2174583
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2174583
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2174583
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2174583
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2174583
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2174583
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2174583
2-Propanol	67-63-0	60.10	125	307	3900	9590		100	WG2174583
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2174583
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2174583
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2174583
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2174583
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2174583
Toluene	108-88-3	92.10	50.0	188	52.9	199		100	WG2174583
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2174583



Collected date/time: 11/16/23 10:55

L1679724

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	WG2174583
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2174583
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2174583
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2174583
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2174583
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2174583
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2174583
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2174583
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2174583
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG2174583
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2174583
TPH (GC/MS) Low Fraction	8006-61-9	101	2000000	8260000	ND	ND		10000	WG2176220
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.2				WG2174583
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.4				WG2176220

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

[L1679724-01](#)

Method Blank (MB)

(MB) R4003142-3 11/20/23 10:55

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	0.630
Ethanol	0.577	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

Method Blank (MB)

(MB) R4003142-3 11/20/23 10:55

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	0.630
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	101			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4003142-1 11/20/23 09:29 • (LCSD) R4003142-2 11/20/23 10:12

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	4.21	3.98	112	106	70.0-130			5.62	25
Allyl chloride	3.75	5.21	4.88	139	130	70.0-130	J4		6.54	25
Benzene	3.75	3.61	3.67	96.3	97.9	70.0-130			1.65	25
Benzyl Chloride	3.75	3.56	3.51	94.9	93.6	70.0-152			1.41	25
Bromodichloromethane	3.75	3.76	3.79	100	101	70.0-130			0.795	25
Bromoform	3.75	3.53	3.65	94.1	97.3	70.0-130			3.34	25
Bromomethane	3.75	3.83	3.84	102	102	70.0-130			0.261	25
1,3-Butadiene	3.75	3.63	3.72	96.8	99.2	70.0-130			2.45	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4003142-1 11/20/23 09:29 • (LCSD) R4003142-2 11/20/23 10:12

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 %
Carbon disulfide	3.75	4.22	3.89	113	104	70.0-130			8.14	25
Carbon tetrachloride	3.75	3.80	3.72	101	99.2	70.0-130			2.13	25
Chlorobenzene	3.75	3.67	3.67	97.9	97.9	70.0-130			0.000	25
Chloroethane	3.75	3.82	3.66	102	97.6	70.0-130			4.28	25
Chloroform	3.75	3.67	3.68	97.9	98.1	70.0-130			0.272	25
Chloromethane	3.75	3.83	3.79	102	101	70.0-130			1.05	25
2-Chlorotoluene	3.75	3.49	3.54	93.1	94.4	70.0-130			1.42	25
Dibromochloromethane	3.75	3.59	3.63	95.7	96.8	70.0-130			1.11	25
1,2-Dibromoethane	3.75	3.61	3.64	96.3	97.1	70.0-130			0.828	25
1,2-Dichlorobenzene	3.75	3.62	3.67	96.5	97.9	70.0-130			1.37	25
1,3-Dichlorobenzene	3.75	3.61	3.62	96.3	96.5	70.0-130			0.277	25
1,4-Dichlorobenzene	3.75	3.64	3.68	97.1	98.1	70.0-130			1.09	25
1,2-Dichloroethane	3.75	3.81	3.70	102	98.7	70.0-130			2.93	25
1,1-Dichloroethane	3.75	3.83	3.75	102	100	70.0-130			2.11	25
1,1-Dichloroethene	3.75	3.72	3.57	99.2	95.2	70.0-130			4.12	25
cis-1,2-Dichloroethene	3.75	3.87	3.92	103	105	70.0-130			1.28	25
trans-1,2-Dichloroethene	3.75	3.76	3.64	100	97.1	70.0-130			3.24	25
1,2-Dichloropropane	3.75	3.55	3.64	94.7	97.1	70.0-130			2.50	25
cis-1,3-Dichloropropene	3.75	3.73	3.65	99.5	97.3	70.0-130			2.17	25
trans-1,3-Dichloropropene	3.75	3.46	3.60	92.3	96.0	70.0-130			3.97	25
1,4-Dioxane	3.75	3.82	3.35	102	89.3	70.0-140			13.1	25
Ethanol	3.75	4.19	3.96	112	106	55.0-148			5.64	25
Ethylbenzene	3.75	3.51	3.70	93.6	98.7	70.0-130			5.27	25
4-Ethyltoluene	3.75	3.61	3.72	96.3	99.2	70.0-130			3.00	25
Trichlorofluoromethane	3.75	3.82	3.76	102	100	70.0-130			1.58	25
Dichlorodifluoromethane	3.75	3.65	3.93	97.3	105	64.0-139			7.39	25
1,1,2-Trichlorotrifluoroethane	3.75	3.74	3.89	99.7	104	70.0-130			3.93	25
1,2-Dichlorotetrafluoroethane	3.75	3.75	3.77	100	101	70.0-130			0.532	25
Hexachloro-1,3-butadiene	3.75	3.61	3.66	96.3	97.6	70.0-151			1.38	25
Isopropylbenzene	3.75	3.66	3.67	97.6	97.9	70.0-130			0.273	25
Methylene Chloride	3.75	3.75	3.69	100	98.4	70.0-130			1.61	25
Methyl Butyl Ketone	3.75	3.56	3.57	94.9	95.2	70.0-149			0.281	25
2-Butanone (MEK)	3.75	3.61	3.64	96.3	97.1	70.0-130			0.828	25
4-Methyl-2-pentanone (MIBK)	3.75	3.60	3.56	96.0	94.9	70.0-139			1.12	25
Methyl methacrylate	3.75	3.57	3.20	95.2	85.3	70.0-130			10.9	25
MTBE	3.75	3.55	3.53	94.7	94.1	70.0-130			0.565	25
Naphthalene	3.75	3.55	3.60	94.7	96.0	70.0-159			1.40	25
2-Propanol	3.75	3.94	3.76	105	100	70.0-139			4.68	25
Propene	3.75	3.80	3.77	101	101	64.0-144			0.793	25
Styrene	3.75	3.65	3.64	97.3	97.1	70.0-130			0.274	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4003142-1 11/20/23 09:29 • (LCSD) R4003142-2 11/20/23 10:12

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	3.60	3.62	96.0	96.5	70.0-130			0.554	25
Tetrachloroethylene	3.75	3.89	3.64	104	97.1	70.0-130			6.64	25
Tetrahydrofuran	3.75	3.97	3.74	106	99.7	70.0-137			5.97	25
Toluene	3.75	3.64	3.64	97.1	97.1	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	3.61	3.46	96.3	92.3	70.0-160			4.24	25
1,1,1-Trichloroethane	3.75	3.67	3.74	97.9	99.7	70.0-130			1.89	25
1,1,2-Trichloroethane	3.75	3.61	3.62	96.3	96.5	70.0-130			0.277	25
Trichloroethylene	3.75	3.54	3.45	94.4	92.0	70.0-130			2.58	25
1,2,4-Trimethylbenzene	3.75	3.55	3.65	94.7	97.3	70.0-130			2.78	25
1,3,5-Trimethylbenzene	3.75	4.43	4.56	118	122	70.0-130			2.89	25
2,2,4-Trimethylpentane	3.75	3.76	3.70	100	98.7	70.0-130			1.61	25
Vinyl chloride	3.75	3.93	3.52	105	93.9	70.0-130			11.0	25
Vinyl Bromide	3.75	3.95	3.80	105	101	70.0-130			3.87	25
Vinyl acetate	3.75	3.60	3.47	96.0	92.5	70.0-130			3.68	25
m&p-Xylene	7.50	7.22	7.18	96.3	95.7	70.0-130			0.556	25
o-Xylene	3.75	3.58	3.63	95.5	96.8	70.0-130			1.39	25
(S) 1,4-Bromofluorobenzene				99.5	103	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4003878-3 11/22/23 09:29

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
TPH (GC/MS) Low Fraction	40.0	J	39.7	200
(S) 1,4-Bromofluorobenzene	98.2			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4003878-1 11/22/23 08:31 • (LCSD) R4003878-2 11/22/23 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	3.77	3.98	101	106	70.0-130			5.42	25
Heptane	3.75	3.86	3.89	103	104	70.0-130			0.774	25
n-Hexane	3.75	3.96	4.03	106	107	70.0-130			1.75	25
TPH (GC/MS) Low Fraction	188	182	185	96.8	98.4	70.0-130			1.63	25
(S) 1,4-Bromofluorobenzene				98.1	101	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.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.

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: 4/22/2024 11:24:11 AM



ANALYTICAL REPORT

December 04, 2023

Ensolum, LLC

Sample Delivery Group: L1681098

Samples Received: 11/22/2023

Project Number:

Description:

Report To:

Beaux Jennings

601 N Marienfeld Street, Ste. 400

Midland, TX 79701

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

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	⁶ Sr
LEVEY WELL L1681098-01	9	
LEVEY WELL L1681098-02	11	
LEVEY WELL L1681098-03	13	⁷ Qc
LEVEY WELL L1681098-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	22	
Al: Accreditations & Locations	23	¹⁰ Sc
Sc: Sample Chain of Custody	24	

LEVEY WELL L1681098-01 Air

				Collected by	Collected date/time	Received date/time
					11/20/23 09:44	11/22/23 13:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177610	100	11/27/23 01:30	11/27/23 01:30	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2180199	5000	12/01/23 00:04	12/01/23 00:04	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

LEVEY WELL L1681098-02 Air

				Collected by	Collected date/time	Received date/time
					11/20/23 10:58	11/22/23 13:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177610	100	11/27/23 02:08	11/27/23 02:08	DAH	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

LEVEY WELL L1681098-03 Air

				Collected by	Collected date/time	Received date/time
					11/20/23 12:06	11/22/23 13:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177610	100	11/27/23 02:46	11/27/23 02:46	DAH	Mt. Juliet, TN

⁷Qc

⁸Gl

LEVEY WELL L1681098-04 Air

				Collected by	Collected date/time	Received date/time
					11/20/23 13:08	11/22/23 13:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177610	100	11/27/23 03:25	11/27/23 03:25	DAH	Mt. Juliet, TN

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.



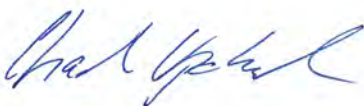
Chad A Upchurch
Project Manager

- 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: 12/04/2023 17:29				
Project Name:			Laboratory Job Number: L1681098-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2177610 and WG2180199				
# 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: 12/04/2023 17:29					
Project Name:		Laboratory Job Number: L1681098-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2177610 and WG2180199					
# 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: 12/04/2023 17:29	
Project Name:		Laboratory Job Number: L1681098-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2177610 and WG2180199	
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: 11/20/23 09:44

L1681098

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	1480	3520		100	WG2177610
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2177610
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2177610
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2177610
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2177610
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2177610
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2177610
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2177610
Carbon disulfide	75-15-0	76.10	20.0	62.2	63.6	198		100	WG2177610
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2177610
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2177610
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2177610
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2177610
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2177610
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2177610
Cyclohexane	110-82-7	84.20	20.0	68.9	ND	ND		100	WG2177610
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2177610
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2177610
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2177610
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2177610
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2177610
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2177610
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2177610
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2177610
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2177610
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2177610
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2177610
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2177610
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2177610
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2177610
Ethanol	64-17-5	46.10	250	471	725	1370		100	WG2177610
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2177610
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2177610
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2177610
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2177610
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2177610
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2177610
Heptane	142-82-5	100	20.0	81.8	8670	35500		100	WG2177610
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2177610
n-Hexane	110-54-3	86.20	3150	11100	362000	1280000		5000	WG2180199
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2177610
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2177610
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2177610
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2177610
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2177610
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2177610
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2177610
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2177610
2-Propanol	67-63-0	60.10	125	307	2090	5140		100	WG2177610
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2177610
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2177610
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2177610
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2177610
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2177610
Toluene	108-88-3	92.10	50.0	188	112	422		100	WG2177610
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2177610

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 11/20/23 09:44

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	WG2177610
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2177610
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2177610
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2177610
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2177610
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2177610
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2177610
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2177610
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2177610
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG2177610
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2177610
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	267000	1100000		100	WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		105				WG2180199

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 11/20/23 10:58

L1681098

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	620	1470		100	WG2177610
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2177610
Benzene	71-43-2	78.10	20.0	63.9	45.3	145		100	WG2177610
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2177610
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2177610
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2177610
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2177610
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2177610
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2177610
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2177610
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2177610
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2177610
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2177610
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2177610
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2177610
Cyclohexane	110-82-7	84.20	20.0	68.9	ND	ND		100	WG2177610
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2177610
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2177610
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2177610
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2177610
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2177610
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2177610
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2177610
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2177610
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2177610
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2177610
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2177610
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2177610
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2177610
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2177610
Ethanol	64-17-5	46.10	250	471	537	1010		100	WG2177610
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2177610
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2177610
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2177610
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2177610
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2177610
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2177610
Heptane	142-82-5	100	20.0	81.8	ND	ND		100	WG2177610
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2177610
n-Hexane	110-54-3	86.20	63.0	222	2620	9240		100	WG2177610
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2177610
Methylene Chloride	75-09-2	84.90	20.0	69.4	34.1	118		100	WG2177610
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2177610
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2177610
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2177610
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2177610
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2177610
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2177610
2-Propanol	67-63-0	60.10	125	307	2010	4940		100	WG2177610
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2177610
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2177610
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2177610
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2177610
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2177610
Toluene	108-88-3	92.10	50.0	188	93.7	353		100	WG2177610
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2177610



Collected date/time: 11/20/23 10:58

L1681098

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	WG2177610
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2177610
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2177610
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2177610
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2177610
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2177610
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2177610
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2177610
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2177610
m&p-Xylene	1330-20-7	106	40.0	173	41.1	178		100	WG2177610
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2177610
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.9				WG2177610

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Collected date/time: 11/20/23 12:06

L1681098

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	719	1710		100	WG2177610
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2177610
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2177610
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2177610
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2177610
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2177610
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2177610
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2177610
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2177610
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2177610
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2177610
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2177610
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2177610
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2177610
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2177610
Cyclohexane	110-82-7	84.20	20.0	68.9	ND	ND		100	WG2177610
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2177610
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2177610
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2177610
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2177610
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2177610
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2177610
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2177610
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2177610
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2177610
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2177610
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2177610
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2177610
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2177610
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2177610
Ethanol	64-17-5	46.10	250	471	618	1170		100	WG2177610
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2177610
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2177610
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2177610
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2177610
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2177610
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2177610
Heptane	142-82-5	100	20.0	81.8	ND	ND		100	WG2177610
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2177610
n-Hexane	110-54-3	86.20	63.0	222	900	3170		100	WG2177610
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2177610
Methylene Chloride	75-09-2	84.90	20.0	69.4	39.1	136		100	WG2177610
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2177610
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2177610
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2177610
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2177610
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2177610
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2177610
2-Propanol	67-63-0	60.10	125	307	2060	5060		100	WG2177610
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2177610
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2177610
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2177610
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2177610
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2177610
Toluene	108-88-3	92.10	50.0	188	79.0	298		100	WG2177610
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2177610



Collected date/time: 11/20/23 12:06

L1681098

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	WG2177610
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2177610
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2177610
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2177610
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2177610
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2177610
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2177610
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2177610
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2177610
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG2177610
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2177610
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.8				WG2177610

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 11/20/23 13:08

L1681098

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	767	1820		100	WG2177610
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2177610
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2177610
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2177610
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2177610
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2177610
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2177610
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2177610
Carbon disulfide	75-15-0	76.10	20.0	62.2	50.9	158		100	WG2177610
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2177610
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2177610
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2177610
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2177610
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2177610
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2177610
Cyclohexane	110-82-7	84.20	20.0	68.9	ND	ND		100	WG2177610
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2177610
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2177610
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2177610
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2177610
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2177610
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2177610
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2177610
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2177610
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2177610
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2177610
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2177610
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2177610
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2177610
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2177610
Ethanol	64-17-5	46.10	250	471	751	1420		100	WG2177610
Ethylbenzene	100-41-4	106	20.0	86.7	ND	ND		100	WG2177610
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2177610
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2177610
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2177610
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2177610
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2177610
Heptane	142-82-5	100	20.0	81.8	ND	ND		100	WG2177610
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2177610
n-Hexane	110-54-3	86.20	63.0	222	1730	6100		100	WG2177610
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2177610
Methylene Chloride	75-09-2	84.90	20.0	69.4	47.6	165		100	WG2177610
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2177610
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2177610
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2177610
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2177610
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2177610
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2177610
2-Propanol	67-63-0	60.10	125	307	2570	6320		100	WG2177610
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2177610
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2177610
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2177610
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2177610
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2177610
Toluene	108-88-3	92.10	50.0	188	94.9	357		100	WG2177610
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2177610



Collected date/time: 11/20/23 13:08

L1681098

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	WG2177610
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2177610
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2177610
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2177610
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2177610
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2177610
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2177610
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2177610
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2177610
m&p-Xylene	1330-20-7	106	40.0	173	ND	ND		100	WG2177610
o-Xylene	95-47-6	106	20.0	86.7	ND	ND		100	WG2177610
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2177610

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Volatile Organic Compounds (MS) by Method TO-15

L1681098-01,02,03,04

Method Blank (MB)

(MB) R4005956-3 11/26/23 10:22

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	0.630
Ethanol	0.459	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

L1681098-01,02,03,04

Method Blank (MB)

(MB) R4005956-3 11/26/23 10:22

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	0.630
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	98.8			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4005956-1 11/26/23 09:04 • (LCSD) R4005956-2 11/26/23 09:44

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	3.34	3.37	89.1	89.9	70.0-130			0.894	25
Allyl chloride	3.75	3.20	3.24	85.3	86.4	70.0-130			1.24	25
Benzene	3.75	3.48	3.48	92.8	92.8	70.0-130			0.000	25
Benzyl Chloride	3.75	3.41	3.60	90.9	96.0	70.0-152			5.42	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4005956-1 11/26/23 09:04 • (LCSD) R4005956-2 11/26/23 09:44

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	3.44	3.43	91.7	91.5	70.0-130			0.291	25
Bromoform	3.75	3.34	3.33	89.1	88.8	70.0-130			0.300	25
Bromomethane	3.75	3.36	3.49	89.6	93.1	70.0-130			3.80	25
1,3-Butadiene	3.75	3.64	3.73	97.1	99.5	70.0-130			2.44	25
Carbon disulfide	3.75	3.36	3.40	89.6	90.7	70.0-130			1.18	25
Carbon tetrachloride	3.75	3.46	3.47	92.3	92.5	70.0-130			0.289	25
Chlorobenzene	3.75	3.50	3.53	93.3	94.1	70.0-130			0.853	25
Chloroethane	3.75	3.33	3.36	88.8	89.6	70.0-130			0.897	25
Chloroform	3.75	3.46	3.50	92.3	93.3	70.0-130			1.15	25
Chloromethane	3.75	3.37	3.39	89.9	90.4	70.0-130			0.592	25
2-Chlorotoluene	3.75	3.31	3.39	88.3	90.4	70.0-130			2.39	25
Cyclohexane	3.75	3.49	3.51	93.1	93.6	70.0-130			0.571	25
Dibromochloromethane	3.75	3.44	3.44	91.7	91.7	70.0-130			0.000	25
1,2-Dibromoethane	3.75	3.49	3.48	93.1	92.8	70.0-130			0.287	25
1,2-Dichlorobenzene	3.75	3.22	3.41	85.9	90.9	70.0-130			5.73	25
1,3-Dichlorobenzene	3.75	3.20	3.38	85.3	90.1	70.0-130			5.47	25
1,4-Dichlorobenzene	3.75	3.27	3.44	87.2	91.7	70.0-130			5.07	25
1,2-Dichloroethane	3.75	3.43	3.41	91.5	90.9	70.0-130			0.585	25
1,1-Dichloroethane	3.75	3.48	3.49	92.8	93.1	70.0-130			0.287	25
1,1-Dichloroethene	3.75	3.42	3.51	91.2	93.6	70.0-130			2.60	25
cis-1,2-Dichloroethene	3.75	3.48	3.51	92.8	93.6	70.0-130			0.858	25
trans-1,2-Dichloroethene	3.75	3.46	3.50	92.3	93.3	70.0-130			1.15	25
1,2-Dichloropropane	3.75	3.49	3.46	93.1	92.3	70.0-130			0.863	25
cis-1,3-Dichloropropene	3.75	3.46	3.43	92.3	91.5	70.0-130			0.871	25
trans-1,3-Dichloropropene	3.75	3.47	3.48	92.5	92.8	70.0-130			0.288	25
1,4-Dioxane	3.75	3.59	3.57	95.7	95.2	70.0-140			0.559	25
Ethanol	3.75	3.30	3.32	88.0	88.5	55.0-148			0.604	25
Ethylbenzene	3.75	3.46	3.44	92.3	91.7	70.0-130			0.580	25
4-Ethyltoluene	3.75	3.27	3.46	87.2	92.3	70.0-130			5.65	25
Trichlorofluoromethane	3.75	3.88	3.76	103	100	70.0-130			3.14	25
Dichlorodifluoromethane	3.75	3.43	3.40	91.5	90.7	64.0-139			0.878	25
1,1,2-Trichlorotrifluoroethane	3.75	3.43	3.44	91.5	91.7	70.0-130			0.291	25
1,2-Dichlorotetrafluoroethane	3.75	3.51	3.47	93.6	92.5	70.0-130			1.15	25
Heptane	3.75	3.48	3.53	92.8	94.1	70.0-130			1.43	25
Hexachloro-1,3-butadiene	3.75	3.30	3.42	88.0	91.2	70.0-151			3.57	25
n-Hexane	3.75	3.47	3.53	92.5	94.1	70.0-130			1.71	25
Isopropylbenzene	3.75	3.41	3.42	90.9	91.2	70.0-130			0.293	25
Methylene Chloride	3.75	3.17	3.27	84.5	87.2	70.0-130			3.11	25
Methyl Butyl Ketone	3.75	3.54	3.61	94.4	96.3	70.0-149			1.96	25
2-Butanone (MEK)	3.75	3.43	3.52	91.5	93.9	70.0-130			2.59	25

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4005956-1 11/26/23 09:04 • (LCSD) R4005956-2 11/26/23 09:44

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	3.65	3.66	97.3	97.6	70.0-139			0.274	25
Methyl methacrylate	3.75	3.38	3.37	90.1	89.9	70.0-130			0.296	25
MTBE	3.75	3.49	3.55	93.1	94.7	70.0-130			1.70	25
Naphthalene	3.75	3.51	3.67	93.6	97.9	70.0-159			4.46	25
2-Propanol	3.75	3.21	3.23	85.6	86.1	70.0-139			0.621	25
Propene	3.75	3.40	3.34	90.7	89.1	64.0-144			1.78	25
Styrene	3.75	3.42	3.42	91.2	91.2	70.0-130			0.000	25
1,1,2,2-Tetrachloroethane	3.75	3.16	3.28	84.3	87.5	70.0-130			3.73	25
Tetrachloroethylene	3.75	3.44	3.44	91.7	91.7	70.0-130			0.000	25
Tetrahydrofuran	3.75	3.56	3.65	94.9	97.3	70.0-137			2.50	25
Toluene	3.75	3.46	3.46	92.3	92.3	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	3.39	3.57	90.4	95.2	70.0-160			5.17	25
1,1,1-Trichloroethane	3.75	3.45	3.49	92.0	93.1	70.0-130			1.15	25
1,1,2-Trichloroethane	3.75	3.39	3.42	90.4	91.2	70.0-130			0.881	25
Trichloroethylene	3.75	3.44	3.47	91.7	92.5	70.0-130			0.868	25
1,2,4-Trimethylbenzene	3.75	3.36	3.57	89.6	95.2	70.0-130			6.06	25
1,3,5-Trimethylbenzene	3.75	3.39	3.57	90.4	95.2	70.0-130			5.17	25
2,2,4-Trimethylpentane	3.75	3.58	3.67	95.5	97.9	70.0-130			2.48	25
Vinyl chloride	3.75	3.34	3.47	89.1	92.5	70.0-130			3.82	25
Vinyl Bromide	3.75	3.76	3.45	100	92.0	70.0-130			8.60	25
Vinyl acetate	3.75	3.48	3.44	92.8	91.7	70.0-130			1.16	25
m&p-Xylene	7.50	7.11	7.07	94.8	94.3	70.0-130			0.564	25
o-Xylene	3.75	3.48	3.47	92.8	92.5	70.0-130			0.288	25
TPH (GC/MS) Low Fraction	188	152	157	80.9	83.5	70.0-130			3.24	25
(S) 1,4-Bromofluorobenzene				98.1	97.5	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1681098-01](#)

Method Blank (MB)

(MB) R4006560-3 11/30/23 10:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	101			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4006560-1 11/30/23 09:22 • (LCSD) R4006560-2 11/30/23 10:08

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	4.60	4.47	123	119	70.0-130			2.87	25
(S) 1,4-Bromofluorobenzene				103	103	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.

QualifierDescription

JThe identification of the analyte is acceptable; the reported value is an estimate.

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

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

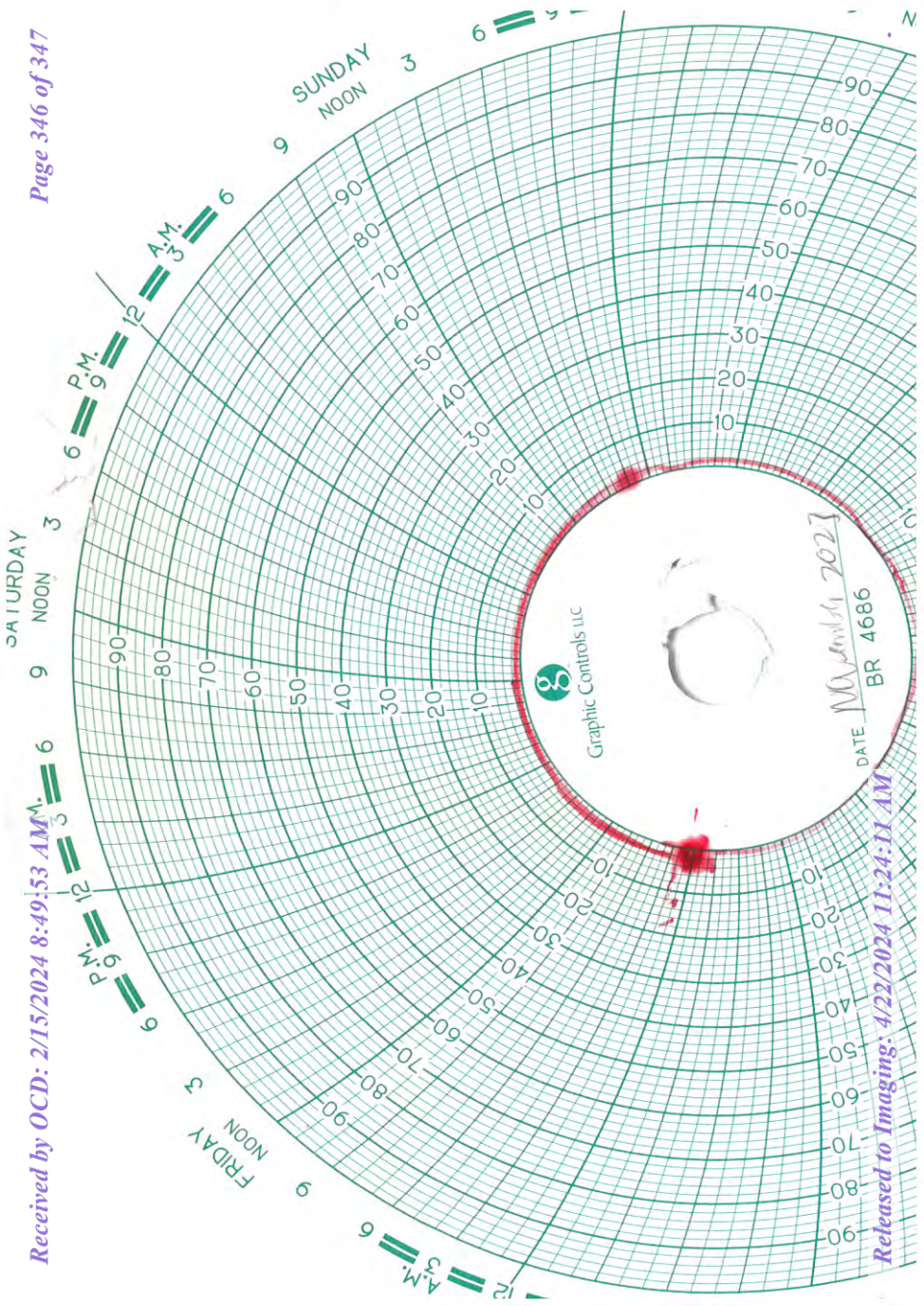
Pace® Location Requested (City/State):		Air CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields				LAB USE ONLY- Affix Workorder/Login Label Here																																																																																							
Company Name: Ensolum, LLC Street Address: 601 N Marienfeld Street, Ste. 400 Midland, TX 79701 City, State Zip: Customer Project #: Project Name:		Contact/Report To: Beaux Jennings Phone #: 210-219-8858 E-Mail: bjennings@ensolum.com Cc E-Mail: Invoice to: Invoice E-Mail: Purchase Order # (if applicable): Quote #: State origin of sample(s): Texas		 Scan QR code for instructions										1/16/2023 J058																																																																															
Site Collection Info/Facility ID (as applicable): ENSOLUMTX-SUMMA Time Zone Collected: ☐ AK ☐ PT ☒ MT ☐ CT ☐ ET		Regulatory Program (CAA, RCRA, etc.) as applicable: Rush (Pre-approval required): 2 Day 3 day 5 day Other _____ Date Results Requested:		Permit # as applicable: Units for Reporting: ug/m³ PPBV mg/m³ PPMV		Field Information					Analyses Requested					AN 10/30/23																																																																													
Data Deliverables: ☐ Level II ☐ Level III ☐ Level IV ☐ EQUIS ☐ Other _____		Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)		Canister Pressure / Vacuum		PUF / FILTER					TO-15 Summa					Proj. Manager: 3564 - Chad A Upchurch AcctNum / Client ID: ENSOLUMTX Table #: Profile / Template: T180734 Prelog / Bottle Ord. ID: P1034041																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Customer Sample ID</th> <th rowspan="2">Matrix *</th> <th rowspan="2">Summa Canister ID</th> <th rowspan="2">Flow Controller ID</th> <th colspan="2">Begin Collection</th> <th colspan="2">End Collection</th> <th rowspan="2">Start Pressure / Vacuum (in Hg)</th> <th rowspan="2">End Pressure / Vacuum (in Hg)</th> <th rowspan="2">Duration (minutes)</th> <th rowspan="2">Flow Rate m³/min or L/min</th> <th rowspan="2">Total Volume Sampled m³ or L</th> <th rowspan="2">Sample Comment</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>Levey Well</td> <td>Air</td> <td>11894</td> <td>29057</td> <td>11-20-23</td> <td>944</td> <td></td> <td></td> <td>-25</td> <td>0</td> <td></td> <td></td> <td></td> <td>X</td> <td>-01</td> </tr> <tr> <td>Levey Well</td> <td>Air</td> <td>23664</td> <td>7486</td> <td>11-20-23</td> <td>1058</td> <td></td> <td></td> <td>-27</td> <td>0</td> <td></td> <td></td> <td></td> <td>X</td> <td>-02</td> </tr> <tr> <td>Levey Well</td> <td>Air</td> <td>13980</td> <td>15298</td> <td>11-20-23</td> <td>1206</td> <td></td> <td></td> <td>-23</td> <td>0</td> <td></td> <td></td> <td></td> <td>X</td> <td>-03</td> </tr> <tr> <td>Levey Well</td> <td>Air</td> <td>12431</td> <td>29127</td> <td>11-20-23</td> <td>1308</td> <td></td> <td></td> <td>-28</td> <td>0</td> <td></td> <td></td> <td></td> <td>X</td> <td>-04</td> </tr> </tbody> </table>		Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate m³/min or L/min	Total Volume Sampled m³ or L	Sample Comment	Date	Time	Date	Time	Levey Well	Air	11894	29057	11-20-23	944			-25	0				X	-01	Levey Well	Air	23664	7486	11-20-23	1058			-27	0				X	-02	Levey Well	Air	13980	15298	11-20-23	1206			-23	0				X	-03	Levey Well	Air	12431	29127	11-20-23	1308			-28	0				X	-04														
Customer Sample ID	Matrix *					Summa Canister ID	Flow Controller ID	Begin Collection								End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate m³/min or L/min	Total Volume Sampled m³ or L	Sample Comment																																																																						
		Date	Time	Date	Time																																																																																								
Levey Well	Air	11894	29057	11-20-23	944			-25	0				X	-01																																																																															
Levey Well	Air	23664	7486	11-20-23	1058			-27	0				X	-02																																																																															
Levey Well	Air	13980	15298	11-20-23	1206			-23	0				X	-03																																																																															
Levey Well	Air	12431	29127	11-20-23	1308			-28	0				X	-04																																																																															
Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/ Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Size: 4 LL Tag Color: G Tubing: Shunt																																																																																													
Customer Remarks / Special Conditions / Possible Hazards:		Collected By: Printed Name: Signature:		Additional Instructions from Pace®:																																																																																									
Relinquished by/Company: (Signature) Relinquished by/Company: (Signature) Relinquished by/Company: (Signature) Relinquished by/Company: (Signature)		Date/Time: 11/21/23 11/21/23 11/21/23 11/22/23		Received by/Company: (Signature) Received by/Company: (Signature) Received by/Company: (Signature) Received by/Company: (Signature)		Date/Time: 11/21/23 11/21/23 11/22/23		Tracking Number: Delivered by: In- Person Courier FedEX UPS Other		Page: ___ of: ___																																																																																			

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>



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 314636

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID:	157984
	Action Number:	314636
	Action Type:	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	GAS MITIGATION MONTHLY REPORT – November 2023 Property: South Hobbs G/SA Unit (Accepted for the record)	4/22/2024