



GAS MITIGATION MONTHLY REPORT – January 2024

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 27, 2024

Prepared for:

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

Prepared by:


Beaux Jennings
Senior Project Manager

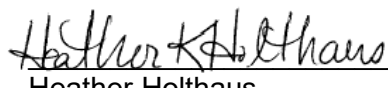

Heather Holthaus
Senior Project Manager



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

Graphs – 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 – January 2024

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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 - January 2024 summarizes activities subsequent to the *Gas Mitigation Monthly Report – December 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 - January 2024
February 27, 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 January 29, 2024. 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 January 2024 groundwater sampling event the groundwater samples did not exhibit constituent concentrations above New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (GQSs), with the exception of benzene, chloride, Nitrite as N and TDS. Benzene concentrations ranged from 0.0156 milligrams per liter (mg/L) to 0.0230 mg/L in monitoring well MW-2, and the Levey Well showed two exceedances of benzene with concentrations of 0.00714 mg/L and 0.00726 mg/L. Two Nitrite as N exceedances of 1.35 mg/L and 1.10 mg/L were observed in monitoring well MW-2. TDS concentrations ranged from 1,190 mg/L to 1,750 mg/L in the Levey Well. The Levey Well also showed three exceedances of chloride with concentrations of 268 mg/L, 307 mg/L and 297 mg/L. 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 data 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 - January 2024
February 27, 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 (H₂S) has not been detected in any of the three forementioned wells since July 15, 2020. All detections of H₂S prior to July 15, 2020 were within the well bore. No H₂S above permissible exposure limits was observed outside of the well bores.

OXY installed pressure reading charts at the Levey Well to measure the potential for any returning pressure at the well. These charts measure pressure 24 hours a day and show that no pressure has returned to the Levey Well. Monitoring wells MW-1 and MW-2 were physically monitored for the presence of gas and pressure on several dates from 7/1/2020 to 1/31/2024, with no pressure observed in either monitoring well. The pressure reading chart available for January 2024 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

Since 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 volume of groundwater recovered from the Levey Well during January 1 - 30, 2024 was approximately 12,118 gallons.

1.3 Gas Recovery – Levey Well

OXY conducted three vacuum recovery events during the month of January 2024 with positive results as shown on **Table 4** in **Appendix B**. The purpose of these events 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 February 2024, 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 January 2, 2024, January 15, 2024 and January 29, 2024, 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 the 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 January 2024 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

Since July 1, 2021, the Levey water well has run full time and 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 February 2024. 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, ethylbenzene, 4-ethyltoluene, heptane, n-hexane, isopropylbenzene, 2-propanol, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 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 approximately one week subsequent to a vacuum recovery event. During the air sampling event, elevated concentrations of acetone, benzene, cyclohexane, ethanol, ethylbenzene, 4-ethyltoluene, heptane, n-hexane, isopropylbenzene, 2-propanol, toluene, 1,2,4-trimethylbenzene, 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 January 2024 groundwater samples collected from the Levey Well and monitoring wells MW-1 and MW-2 to the New Mexico WQCC GQs. 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 GQs, with the exception of the analytes discussed below.

Levey Well

TDS concentrations ranging from 1,190 mg/L to 1,750 mg/L were observed during the January 2024 sampling. Although above the GQS, these TDS concentrations are consistent with background levels in the Quaternary Alluvium, Ogallala Formation, and the Dockum Group (i.e., the three groundwater bearing units) in Southern Lea County (Nicholson and Clebsch, 1961). Specifically, for the 20 water supply wells sampled by the USGS in Southern Lea County with TDS analyses, the median TDS concentration was 722 mg/L, and the 75th percentile TDS concentration was 1,953 mg/L.

The Levey Well sampling first began on December 6, 2019. Through mitigation activities, including groundwater recovery and vacuum recovery events, the benzene concentration in the Levey Well has significantly decreased over time, with the exception of December 29, 2021, which

had a benzene analytical result of 0.00611 mg/L, the January 19, 2022, which had a benzene analytical result of 0.00684 mg/L, the March 9, 2022, which had a benzene analytical result of 0.00552 mg/L, the January 25, 2023, which had a benzene analytical result of 0.00589 mg/L, the July 27, 2023, which had a benzene analytical result of 0.00659 mg/L, the August 14, 2023, which had a benzene analytical result of 0.00575 mg/L as well as the January 15, 2024 and January 29, 2024 sampling events, which each had benzene analytical results of 0.00714 mg/L and 0.00726 mg/L respectively, which exceeds the WQCC GQS of 0.005 mg/L. This slight rise in concentration is indicative that the vacuum recovery events are successful in drawing the subsurface gas over to the Levey Well. Benzene concentrations over time are graphed and included in **Appendix A**, showing the significant decrease of benzene in the Levey Well over time.

The Levey Well also showed three exceedances of chloride with concentrations of 268 mg/L, 307 mg/L and 297 mg/L for the January 2024 sampling events.

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 0.0156 mg/L to 0.0230 mg/L, which exceed the WQCC GQS of 0.005 mg/L.

In addition, two Nitrite as N exceedances of 1.35 mg/L and 1.10 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 in its place, 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.

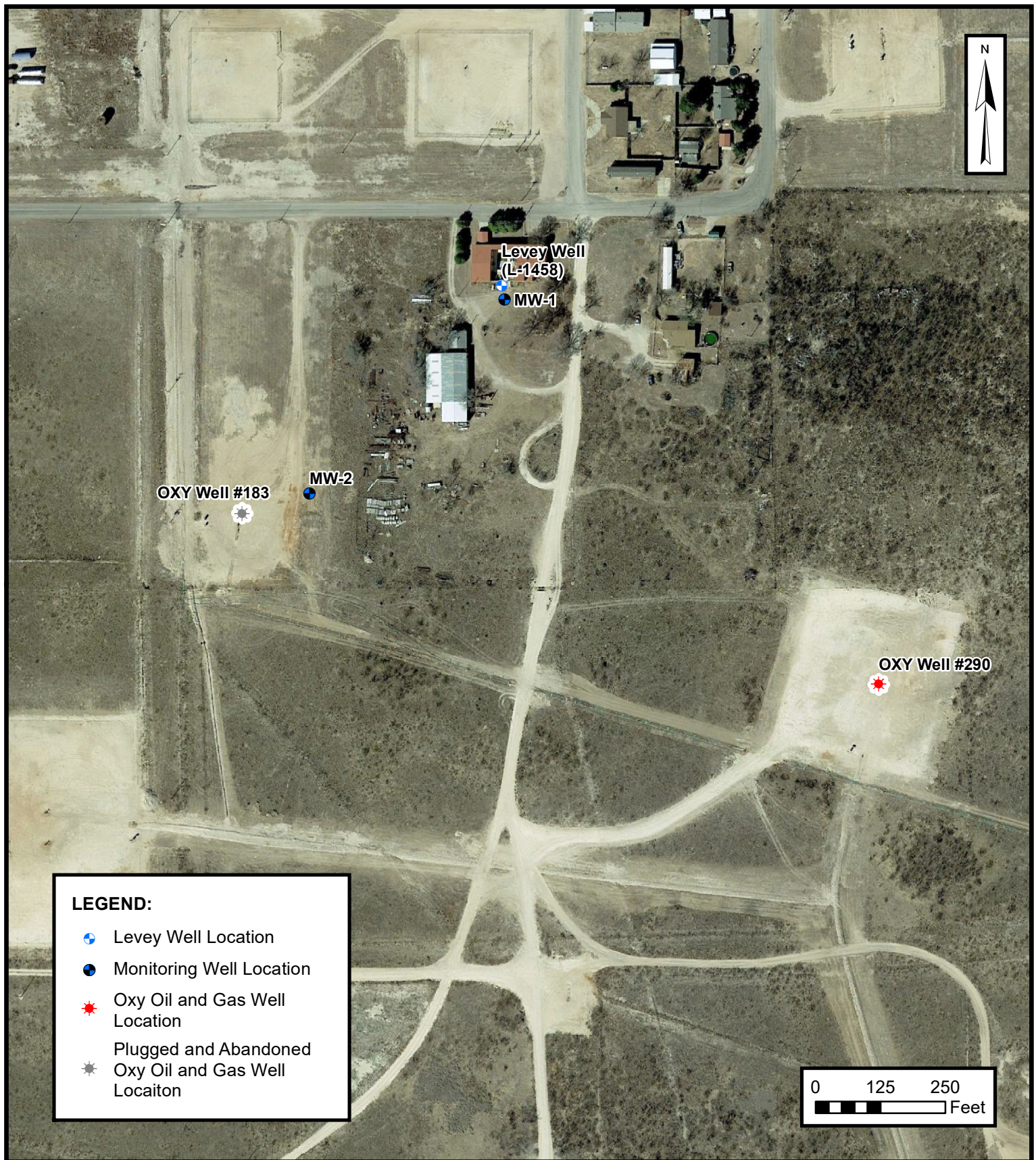
5.0 REFERENCES

- 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 methaneconcentration in water supply wells. Sci. Total Environ. 618, 998-1007. <https://doi.org/10.1016/j.scitotenv.2017.09.077>.



APPENDIX A

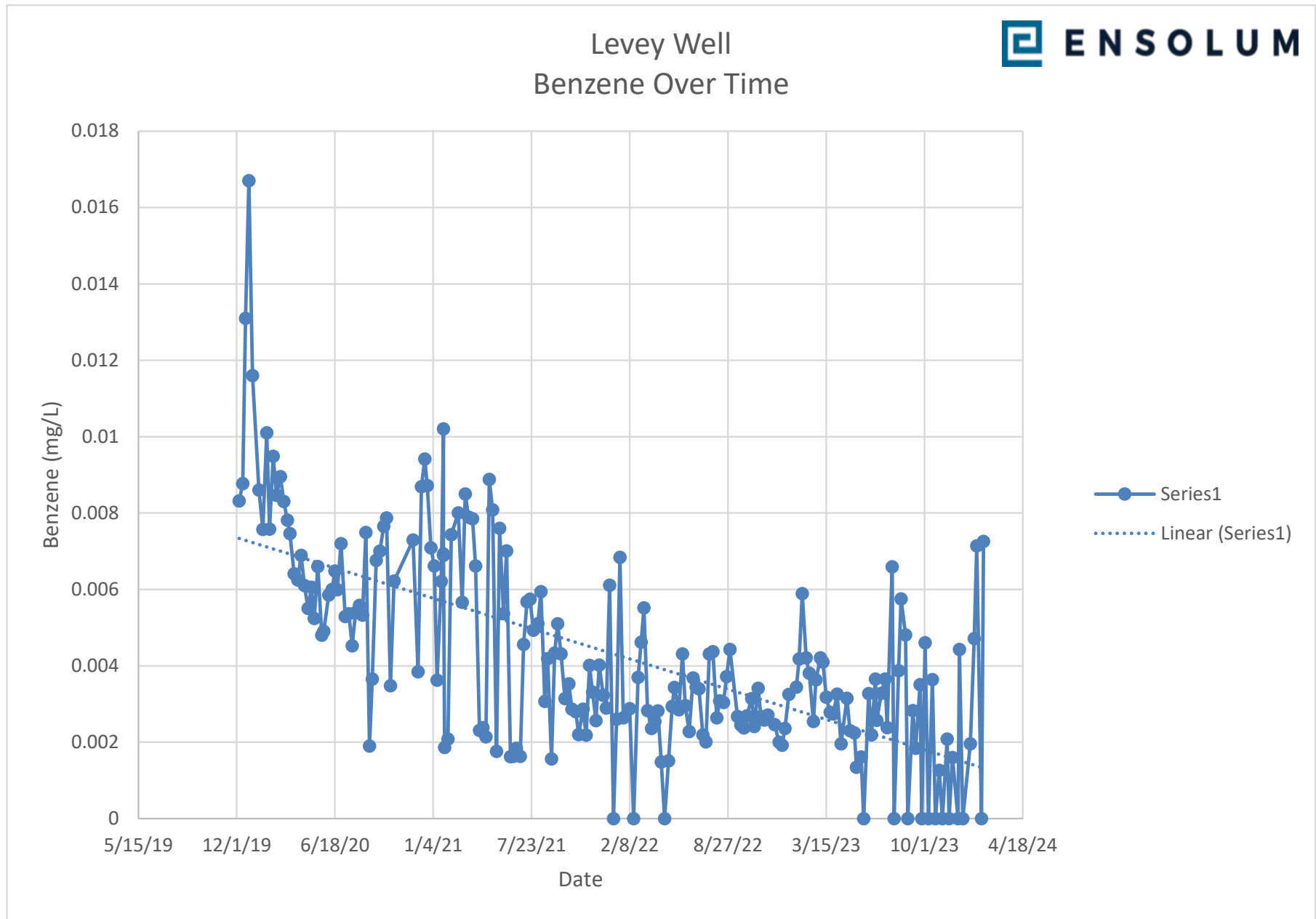
Figures and Graphs

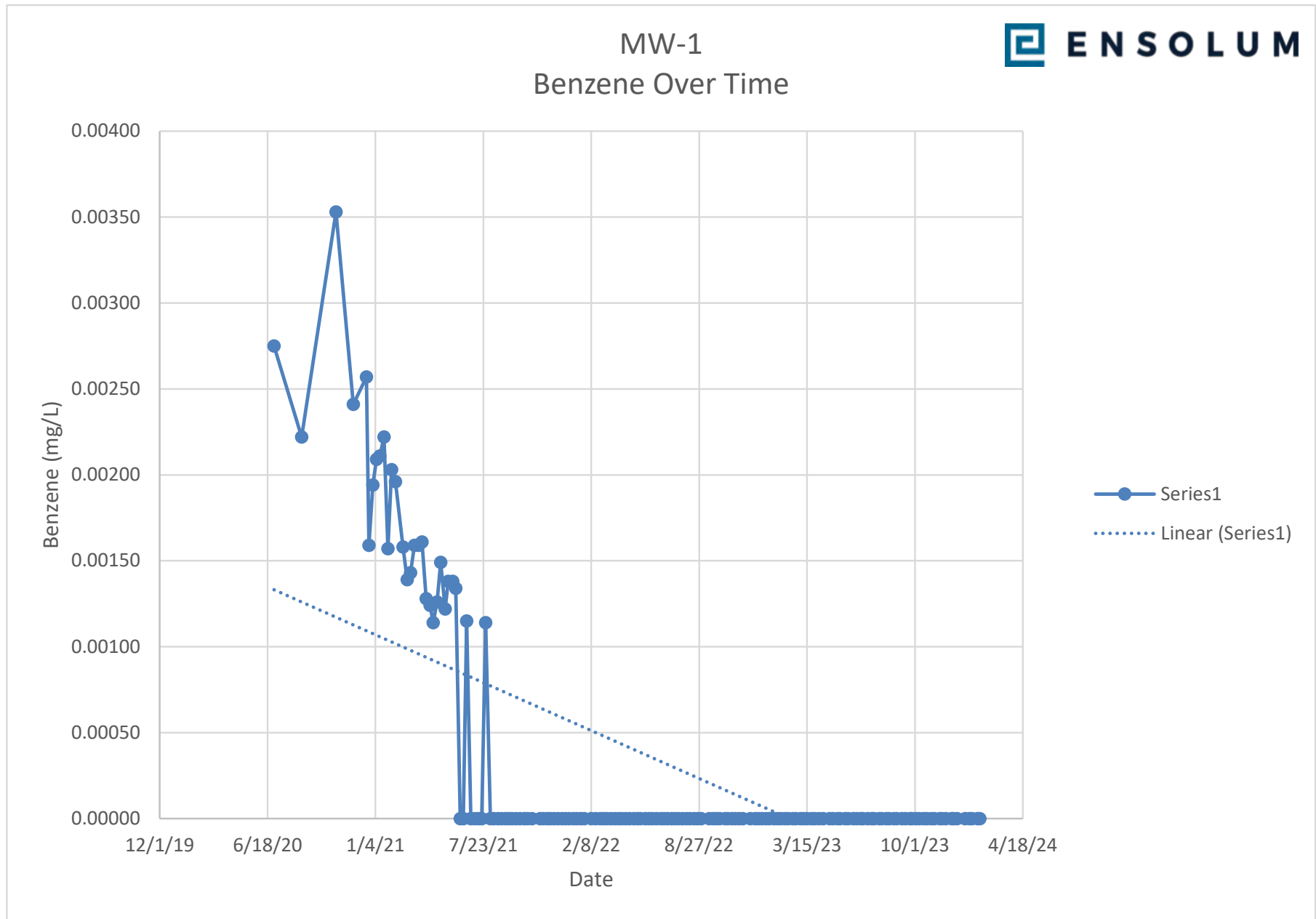


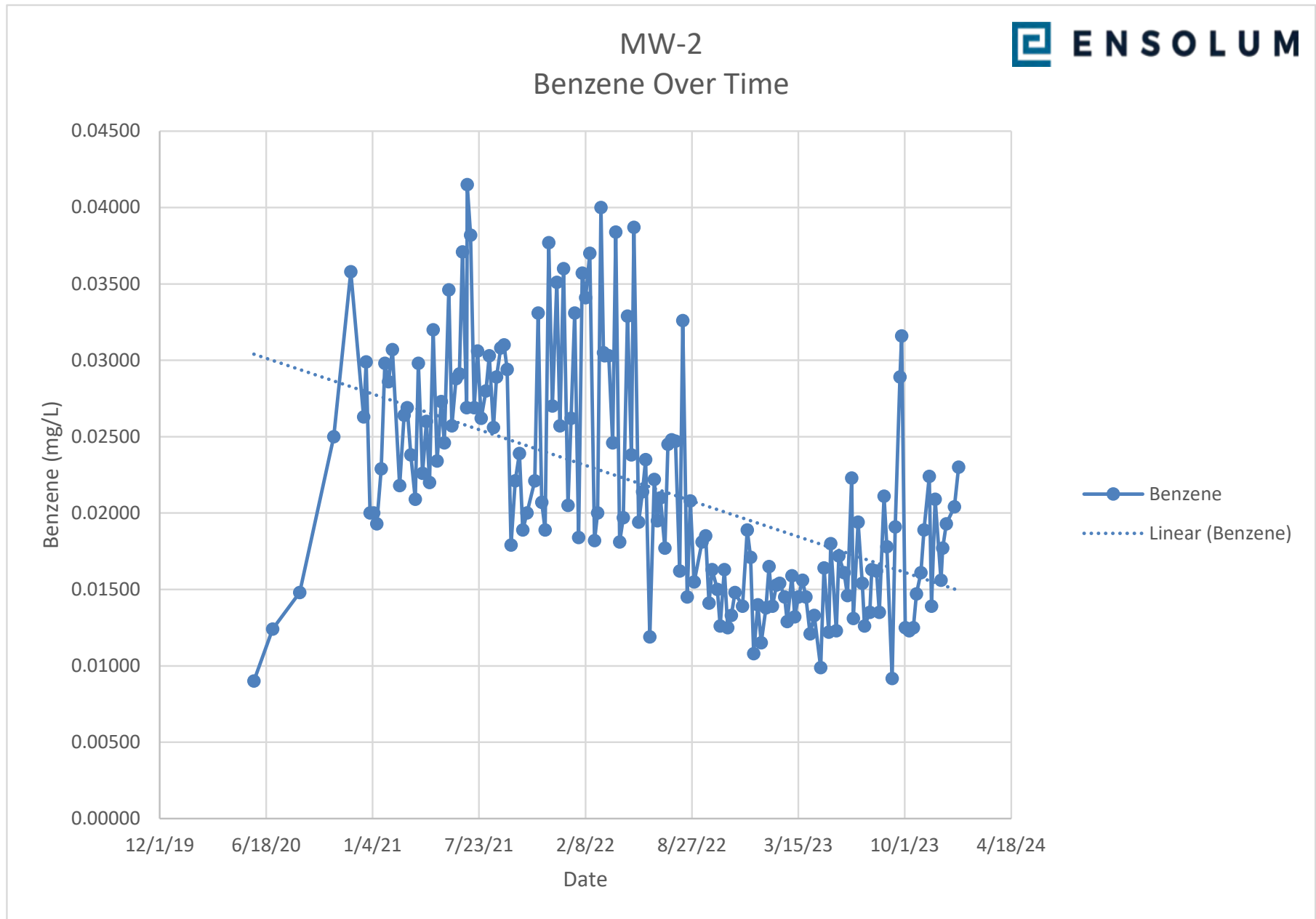
SITE MAP

OCCIDENTAL PERMIAN LTD
S HOBBS G/SA UNIT
Unit F, Sec 5, T9S, R38E, Hobbs, New Mexico
32.690683° N, 103.173158° W
PROJECT NUMBER: 03B1417001

FIGURE
1









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	<0.00																				

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)ene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)ene	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	1/25/2021	0.00693	0.0342	0.0251	0.0113	0.0737	0.0850	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00146	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0133	<0.0100	0.0124	<0.00100	<0.00100	0.0738	0.0218
	1/27/2021	0.00186	0.00398	0.0101	0.00322	0.0219	0.0251	<0.0500	0.00110	0.00169	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00618	<0.0100	0.0125	<0.00100	<0.00100	0.0743	0.0224
	2/3/2021	0.00208	0.00551	0.0120	0.00438	0.0262	0.0306	<0.0500	<0.00100	0.00195	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00101	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00756	<0.0100	0.0156	<0.00100	<0.00100	0.0945	0.0282
	2/10/2021	0.00743	0.0531	0.0280	0.0157	0.104	0.120	<0.0500	0.00140	<0.00100	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00145	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0142	<0.0100	0.00876	<0.00100	<0.00100	0.0448	0.0143
	2/24/2021	0.00800	0.0593	0.0287	0.0177	0.109	0.127	<0.0500	<0.00100	0.0024	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00142	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0140	<0.0100	0.00808	<0.00100	<0.00100	0.0408	0.0132
	3/4/2021	0.00566	0.0446	0.0222	0.0133	0.0869	0.100	<0.0500	<0.00100	0.00187	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00110	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0105	<0.0100	0.00694	<0.00100	<0.00100	0.0390	0.0119
	3/10/2021	0.00850	0.0668	0.0314	0.0194	0.126	0.145	<0.0500	<0.00100	0.00270	<0.00100	<0.00100	<0.00100	NA	<0.00100	<0.00100	0.00176	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0156	<0.0100	0.00898	<0.00100	<0.00100	0.0466	0.0150
	3/17/2021	0.00789	0.0563	0.0273	0.0168	0.103	0.120	0.0253 J	0.000840 J	0.00239	<0.000195	<0.00100	<0.00100	NA	<0.000214	<0.000183	0.00139	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00830	<0.000228	<0.000162	0.0427	0.0135
	3/25/2021	0.00785	0.0585	0.0276	0.0175	0.109	0.127	0.0206 J	0.00129	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00143	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.0141	<0.0100	0.00779	<0.00100	<0.00100	0.0416	<0.00100
	3/31/2021	0.00661	0.0459	0.0243	0.0143	0.0857	0.100	<0.00270	<0.000286	<0.000199	<0.000195	<0.00100	<0.00100	<0.0100	0.00302	<0.000183	0.00144	<0.000244	<0.00500	<0.000174	<0.00100	<0.000481	0.0129	<0.00200	0.00840	<0.000228	<0.000162	0.0422	0.01370
	4/8/2021	0.00231	0.00502	0.0106	0.00358	0.0227	0.0263	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00103	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00689	<0.0100	0.0148	<0.00100	<0.00100	0.0951	0.0639
	4/15/2021	0.00238	0.00491	0.0109	0.00364	0.0266	0.0302	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.00109	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00733	<0.0100	0.0162	<0.00100	<0.00100	0.111	<0.00100
	4/21/2021	0.00214	0.00431	0.00957	0.00340	0.0198	0.0232	<0.00270	<0.000286	0.00181	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00103	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00658	<0.00200	0.0149	<0.000228	<0.000623	0.109	0.0631
	4/28/2021	0.00888	0.0652	0.0325	0.0201	0.121	0.141	0.0198 J	<0.000286	0.00259	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00163	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0161	<0.00200	0.00855	<0.000228	<0.000623	0.0431	0.0138
	5/5/2021	0.00808	0.0527	0.0257	0.0160	0.0935	0.110	<0.00270	0.00135	0.00232	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00130	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0121	<0.00200	0.00760	<0.000228	<0.000623	0.0414	<0.000279
	5/13/2021	0.00176	0.00332	0.00899	0.00297	0.0187	0.0217	<0.00270	0.00109	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000802 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00592	<0.00200	0.0139	<0.000228	<0.000623	0.0828	0.0239
	5/19/2021	0.00760	0.0603	0.0296	0.0182	0.112	0.130	0.0188 J	<0.000286	0.00254	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00157	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0146	<0.00200	0.00825	<0.000228	<0.000623	0.0403	0.0128
	5/27/2021	0.00536	0.0360	0.0206	0.0117	0.0657	0.0774	0.0139 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00139	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0111	<0.00200	0.00924	<0.000228	<0.000623	0.0483	0.0150
	6/2/2021	0.00701	0.0521	0.0258	0.0154	0.0906	0.106	<0.00270	<0.000286	0.00254	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00160	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0130	<0.00200	0.00800	<0.000228	<0.000623	0.0388	0.0128
	6/10/2021	0.00162	0.00304	0.00713	0.00221	0.0146	0.0168	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	0.00195	0.0126	<0.000214	<0.000183	0.000716 J	<0.000285	<0.000396	<0.000174	<0.000199	0.00516	0.00483	<0.00200	0.0109	<0.000228	<0.000623	0.0658	0.01

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	2/16/2022	0.000814 J	0.00676	0.00397	0.00212	0.0142	0.0163	<0.00270	<0.000286	<0.000199	<0.000195	0.00175	<0.000259	<0.000318	<0.000214	<0.000183	0.000336 J	<0.000285	0.000534 J	<0.000174	<0.000199	<0.000481	0.00202	<0.00200	0.00130	<0.000228	<0.000623	0.00924	0.00283
	2/25/2022	0.00370	0.0196	0.0133	0.00750	0.0489	0.0564	0.00976 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000696 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00626	<0.00200	0.00308	<0.000228	<0.000623	0.0131	0.00450
	3/3/2022	0.00462	0.0327	0.0162	0.00973	0.0634	0.0731	0.0180 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00731	<0.00200	0.00342	<0.000228	<0.000623	0.0140	0.00470
	3/9/2022	0.00552	0.0388	0.0204	0.0124	0.0768	0.0892	<0.00270	0.00169	0.00180	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00966	<0.00200	0.00484	<0.000228	<0.000623	0.0226	0.00720
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.																											
	3/16/2022	0.00283	0.0227	0.0106	0.00619	0.0409	0.0471	<0.00270	<0.000286	0.000916 J	<0.000195	0.00174	<0.000259	<0.000318	<0.000214	<0.000183	0.000550 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00477	<0.00200	0.00238	<0.000228	<0.000623	0.0114	0.00388
	3/24/2022	0.00236	0.0178	0.00867	0.00491	0.0341	0.0390	<0.00270	0.000553 J	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000509 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00409	<0.00200	0.00208	<0.000228	<0.000623	0.0101	0.00323
	3/31/2022	0.00254	0.0197	0.00985	0.00574	0.0371	0.0428	0.00431 J	<0.000286	0.000932 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000605 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00482	<0.00200	0.00233	<0.000228	<0.000623	0.0121	0.00390
	4/6/2022	0.00282	0.0215	0.0106	0.00647	0.0405	0.0470	0.00381 J	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000581 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00491	<0.00200	0.00250	<0.000228	<0.000623	0.0125	0.00386
	4/13/2022	0.00148	0.0113	0.00559	0.00334	0.0211	0.0244	<0.00270	<0.000286	<0.000199	<0.000195	0.000531 J	<0.000259	<0.000318	<0.000214	<0.000183	0.000351 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00269	<0.00200	0.00153	<0.000228	<0.000623	0.00856	0.00264
	4/20/2022	0.000594 J	0.00776	0.00375	0.00212	0.0158	0.0179	<0.00270	<0.000286	0.000408 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000239 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00196	<0.00200	0.000651 J	<0.000228	<0.000623	0.00643	0.00156
	4/28/2022	0.00151	0.0112	0.00540	0.00323	0.0207	0.0239	<0.00270	<0.000286	0.000523 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	<0.000233	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00238	<0.00200	0.00133	<0.000228	<0.000623	0.00733	0.00242
	5/5/2022	0.00294	0.0275	0.0130	0.00761	0.0515	0.0591	<0.00270	<0.000286	0.00117	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000709 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00600	<0.00200	0.00265	<0.000228	<0.000623	0.0145	0.00440
	5/10/2022	0.00343	0.0282	0.0132	0.00821	0.0517	0.0599	<0.00270	<0.000286	0.00119	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000652 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00630	<0.00200	0.00301	<0.000228	<0.000623	0.0148	0.00463
	5/19/2022	0.00285	0.0228	0.0107	0.00633	0.0424	0.0487	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000527 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00521	<0.00200	0.00232	<0.000228	<0.000623	0.0102	0.00345
	5/26/2022	0.00431	0.0360	0.0171	0.0109	0.0679	0.0788	<0.00270	<0.000286	0.00153	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000918 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00840	<0.00200	0.00391	<0.000228	<0.000623	0.0182	0.00580
	6/1/2022	0.00296	0.0233	0.0107	0.00653	0.0423	0.0488	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000538 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00499	<0.00200	0.00212	<0.000228	<0.000623	0.00987	0.00337
	6/9/2022	0.00228	0.0182	0.00874	0.00514	0.0352	0.0403	<0.00270	0.000536 J	0.000776 J	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000539 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00436	<0.00200	0.00197	<0.000228	<0.000623	0.00847	0.00271
	6/17/2022	0.00368	0.0282	0.0141	0.00881	0.0544	0.0632	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	<0.000318	<0.000214	<0.000183	0.000744 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00678	<0.00200	0.00340	<0.000228	<0.000623	0.0152	0.00482
	6/23/2022	0.00344	0.0304	0.0149	0.00959	0.0599	0.0695	<0.00270	<0.000286	<0.000199	<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	0.00715	<0.00200	0.00310				

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)ene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)ene	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	3/23/2023	0.00278	0.0219	0.0103	0.00617	0.0393	0.0455	<0.00828	<0.000644	0.000873 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00513	<0.00135	0.00224	<0.000511	<0.000655	0.00930	0.00289	
	3/29/2023	0.00274	0.0197	0.00898	0.00564	0.0349	0.0405	<0.00828	<0.000644	0.000857 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00462	<0.00135	0.00192	<0.000511	<0.000655	0.00798	0.00246	
	4/6/2023	0.00326	0.0242	0.0113	0.00757	0.0451	0.0527	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00554	<0.00135	0.00237	<0.000511	<0.000655	0.0110	0.00328	
	4/14/2023	0.00196	0.0142	0.00641	0.00432	0.0251	0.0294	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00316	<0.00135	0.00142	<0.000511	<0.000655	0.00638	0.00204	
	4/26/2023	0.00315	0.0256	0.0119	0.00779	0.0508	0.0586	<0.00828	<0.000644	0.0011	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00595	<0.00135	0.00251	<0.000511	<0.000655	0.01160	0.00346	
	5/2/2023	0.00230	0.0168	0.00748	0.00491	0.0302	0.0351	<0.00828	<0.000644	0.000716 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00367	<0.00135	0.00169	<0.000511	<0.000655	0.00721	0.00229	
	5/11/2023	0.00224	0.0163	0.00757	0.00487	0.0277	0.0326	<0.00828	<0.000644	0.000743 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00364	<0.00135	0.00166	<0.000511	<0.000655	0.00700	0.00230	
	5/15/2023	0.00134	0.00949	0.00492	0.00275	0.0190	0.0218	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00285	<0.00135	0.00106	<0.000511	<0.000655	0.00436	0.00129	
	5/25/2023	0.00161	0.0113	0.00570	0.00323	0.0211	0.0243	<0.00828	<0.000644	0.000561 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00267	<0.00135	0.00127	<0.000511	<0.000655	0.00441	0.00141	
	5/30/2023	<0.000533	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	0.000889 J	<0.000456	
	6/9/2023	0.00327	0.0264	0.0129	0.00821	0.0529	0.0611	<0.00828	0.000774 J	0.00137	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00611	<0.00135	0.00323	<0.000511	<0.000655	0.01400	0.00411	
	6/15/2023	0.00219	0.0154	0.00761	0.00487	0.0292	0.0341	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00398	<0.00135	0.00175	<0.000511	<0.000655	0.00744	0.00229	
	6/23/2023	0.00365	0.0251	0.0139	0.00865	0.0564	0.0651	<0.00828	0.000789 J	0.00128	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00633	<0.00135	0.00291	<0.000511	<0.000655	0.0141	0.00414	
	6/26/2023	0.00257	0.0177	0.00872	0.00591	0.0356	0.0415	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00406	<0.00135	0.00199	<0.000511	<0.000655	0.00922	0.00261	
	7/5/2023	0.00328	0.0241	0.0126	0.00842	0.0508	0.0592	<0.00828	<0.000644	0.00119	<0.000442	<0.000801	0.0173	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00636	<0.00135	0.00280	<0.000511	<0.000655	0.0129	0.00384	
	7/13/2023	0.00365	0.0239	0.0125	0.00796	0.0540	0.0620	<0.00828	<0.000644	0.00102	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00586	<0.00135	0.00252	<0.000511	<0.000655	0.0123	0.00368	
	7/17/2023	0.00238	0.0198	0.0103	0.00646	0.0431	0.0496	<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	0.00484	<0.00135	0.00222	<0.000511	<0.000655	0.0102	0.00307	
	7/27/2023	0.00659	0.0421	0.0228	0.0138	0.0887	0.103	<0.00828	0.00111	0.00197	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00116	<0.000590	0.00262 J	<0.000714	<0.000513	<0.00160	0.0111	<0.00135	0.00502	<0.000511	<0.000655	0.0219	0.00651	
	7/31/2023	<0.000460	0.000786 J	0.000681 J	<0.000551	0.00256 J	0.00256 J	<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	0.00120	<0.000456	
	8/9/2023	0.00387	0.0283	0.0140	0.00880	0.0548	0.0636	<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	0.00660	<0.00135	0.00283	<0.000511	<0.000655	0.0115	0.00388	
	8/14/2023	0.00575	0.0378	0.0185	0.0117	0.0754	0.0871	<0.00828	0.000788 J	0.00143	<0.000442																			

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	<0.005																

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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
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	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	1/19/2023	<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	<0.000417	<0.000456
	1/25/2023	<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	<0.000417	<0.000456
	2/2/2023	<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	<0.000417	<0.000456
	2/8/2023	<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	<0.000417	<0.000456
	2/17/2023	<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	<0.000417	<0.000456
	2/22/2023	<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	<0.000417	<0.000456
	3/3/2023	<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	<0.000417	<0.000456
	3/8/2023	<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	<0.000417	<0.000456
	3/15/2023	<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	<0.000417	<0.000456
	3/23/2023	<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	<0.00613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000456
	3/29/2023	<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	<0.000417	<0.000465
	4/6/2023	<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	<0.000417	<0.000465
	4/14/2023	<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	<0.000417	<0.000465
	4/26/2023	<0.000533	<0.000475	<0.000411	<0.000511	<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	<0.0000513	<0.00160	<0.000613	<0.00135	<0.000498	<0.000511	<0.000655	<0.000417	<0.000465
	5/2/2023	<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	<0.000417	<0.000465
	5/11/2023	<0.000533	<0.000475	<0.000411	<0.000511	<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	<0.000417	<0.000465
	5/15/2023	<0.000533	<0.000475	<0.000411	<0.000511	<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	<0.000417	<0.000465
	5/25/2023	<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	<0.000417	<0.000465
	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	<0.000417	<0.000465
	6/9/2023	<0.000460	<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	<0.000417	<0.000465
	6/15/2023	<0.000460	<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	<0.000417	<0.000465
	6/23/2023	<0.000460	<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	<0.000417	<0.000465
	6/26/2023	<0.000460	<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	<0.000417	<0.000465
	7/5/2023	<0.000460	<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	<0.000417	<0.000465
	7/13/2023	<0.000460	<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	<0.000417	<0.000465
	7/17/2023	<0.000460	<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	<0.000417	<0.000465
	7/27/2023	<0.000460	<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	<0.000417	<0.000465
	7/31/2023	<0.000460	<0.000475	<0.000411	<0.000551	<0.00124	<0.00124	<0.00828	<0.000644	<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)ene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)ene	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	0.001143	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0189	0.00242 J	<0.000179	<0.000228	<0.000162	0.0590	0.0149							
	12/18/2020	0.0263	0.0260	0.0369	0.0240	0.165	0.189	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00113	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0148	<0.00200	0.00486	<0.000228	<0.000162	0.0467	0.0121							
	12/23/2020	0.0299	0.0358	0.0381	0.0266	0.156	0.183	<0.00270	<0.000286	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00101	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0135	<0.00200	0.00408	<0.000228	<0.000162	0.0406	0.0102							
	12/30/2020	0.0200	0.0242	0.0185	0.0146	0.0592	0.0738	<0.00270	0.000550 J	0.000680 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000540 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00603	<0.00200	0.00170	<0.000228	<0.000162	0.0116	0.00533							
	1/6/2021	0.0200	0.0169	0.0231	0.0169	0.118	0.135	<0.00270	0.000390 J	0.00117	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00105	0.000500 J	<0.000396	<0.000174	<0.000199	<0.000481	0.00815	<0.00200	0.00267	0.000800 J	<0.000162	0.0339	0.0103							
	1/12/2021	0.0193	0.0185	0.0198	0.0144	0.0922	0.107	<0.00270	0.000690 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000710 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00756	<0.00200	0.00242	<0.000228	<0.000162	0.0259	0.00698							
	1/20/2021	0.0229	0.0169	0.0190	0.0136	0.0829	0.0965	0.00394 J	0.000400 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000470 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00640	<0.00200	0.00177	<0.000228	<0.000162	0.0202	0.00517							
	1/27/2021	0.0298	0.0276	0.0282	0.0269	0.155	0.182	0.00504 J	0.00103	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.00116	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0117	<0.00200	0.00343	<0.000228	<0.000162	0.0500	0.0129							
	2/3/2021	0.0286	0.0392	0.0258	0.0236	0.111	0.135	<0.00270	<0.000286	0.000850 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000590 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.00817	<0.00200	0.00240	<0.000228	<0.000162	0.0267	0.00674							
	2/10/2021	0.0307	0.0201	0.0329	0.0210	0.159	0.180	<0.00575	0.000870 J	<0.000199	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000940 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0120	<0.00200	0.00331	<0.000228	<0.000162	0.0407	0.00994							
	2/24/2021	0.0218	0.0122	0.0164	0.0111	0.0749	0.086	<0.00575	0.000370 J	0.000640 J	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000480 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0060	<0.00200	0.00175	<0.000228	<0.000162	0.0191	0.00496							
	3/4/2021	0.0264	0.0232	0.0320	0.0212	0.142	0.163	<0.00575	0.000430 J	0.00131	<0.000195	<0.000500	<0.000259	NA	<0.000214	<0.000183	0.000930 J	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0115	<0.00200	0.00390	<0.000228	<0.000162	0.0403	0.0100							
	3/10/2021	0.0269	0.0234	0.0271	0.0206	0.117	0.138	<0.00575	<0.000286	0.000970 J	<0.000195	<0.00100	<0.000259	NA	<0.000214	<0.000183	0.000720 J	<0.000285	<0.00500	<0.000174	<0.00100	<0.000481	0.00931	<0.00200	0.00281	<0.000228	<0.000162	0.0287	0.00720							
	3/17/2021	0.0238	0.0237	0.0257	0.0190	0.113	0.132	<0.0500	<0.00100	0.00113	<0.00100	<0.00100	<0.000259	NA	<0.00100	<0.00100	<0.00100	<0.00500	<0.00500	<0.00500	<0.00100	<0.00500	0.00923	<0.0100	0.00305	<0.00100	<0.00100	0.0315	0.00821							
	3/25/2021	0.0209	0.0281	0.0202	0.0165	0.0892	0.106	<0.0500	<0.00100	0.000799 J	0.00134	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100	0.000610 J	<0.00100	<0.00500	<0.00100	<0.00100	<0.00500	0.00725	<0.0100	0.00229	<0.00100	<0.00100	0.0224	<0.00100							
	3/31/2021	0.0298	0.0107	0.0177	0.0203	0.124	0.144	<0.00270	<0.000286	0.00137	<0.000195	<0.000500	<0.00100	<0.0100	0.00151	<0.000183	0.00109	<0.000285	<0.000396	<0.000174	<0.000199	<0.000481	0.0133	<0.00200	0.00295	<0.000228	0.000631 J	0.0426	0.0107							
	4/8/2021	0.0226	0.0217	0.0210	0.0175	0.0990	0.117	<0																												

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)ene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)ene	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	<0.0.										

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)ene	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	p-Cymene (p-Isopropyltoluene)	1,2-Dichloroethane	1,2-Dichloropropane	cis-1,2-Dichloroeth(y)ene	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	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	<0.00919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00529	<0.00135	0.00134	<0.000511	<0.000655	0.0129	0.00348
	3/23/2023	0.0159	0.00204	0.0154	0.00843	0.0597	0.0681	<0.00828	0.000671 J	0.00120	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00972	<0.00135	0.00277	<0.000511	<0.000655	0.0267	0.00702
	3/29/2023	0.0132	0.00207	0.00611	0.00430	0.0168	0.0211	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00255	<0.00135	0.00061 J	<0.000511	<0.000655	0.00470	0.00128
	4/6/2023	0.0145	0.00333	0.0115	0.00862	0.0508	0.0594	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00878	<0.00135	0.00197 J	<0.000511	<0.000655	0.0225	0.00540
	4/14/2023	0.0156	0.0161	0.0193	0.0158	0.0719	0.0877	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00792	<0.00135	0.00245	<0.000511	<0.000655	0.0195	0.00548
	4/26/2023	0.0145	0.00380	0.0206	0.0140	0.0685	0.0825	<0.00828	0.000650 J	0.00145	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.000946 J	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00356	<0.000511	<0.000655	0.0348	0.00888
	5/2/2023	0.0121	0.00144	0.0115	0.00647	0.0350	0.0415	<0.00828	<0.000644	0.000716 J	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00615	<0.00135	0.00169	<0.000511	<0.000655	0.0149	0.00410
	5/11/2023	0.0133	0.00355	0.0174	0.0123	0.0412	0.0535	<0.00828	0.000666 J	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00753	<0.00135	0.00239	<0.000511	<0.000655	0.0187	0.00536
	5/15/2023	0.00988	<0.000475	0.00646	0.00425	0.0253	0.0296	<0.00828	<0.000644	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000509	<0.000667	<0.000714	<0.000513	<0.00160	0.00524	<0.00135	0.00122	<0.000511	<0.000655	0.0137	0.00304
	5/25/2023	0.0164	0.00150	0.0185	0.0106	0.0581	0.0687	<0.00828	<0.000644	0.00148	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.00109	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00337	<0.000511	<0.000655	0.0334	0.00887
	5/30/2023	0.0122	0.00197	0.0199	0.00741	0.0249	0.0323	<0.00828	<0.000644	0.000558 J	0.000690 J	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00455	<0.00135	0.00138	<0.000511	<0.000655	0.0103	0.00300
	6/9/2023	0.0180	0.00256	0.0196	0.0129	0.0666	0.0795	<0.00828	0.00104	0.00151	<0.000442	<0.000801	<0.000643	0.00299 J	<0.00118	<0.000472	0.00115	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0114	<0.00135	0.00349	<0.000511	<0.000655	0.0433	0.0105
	6/15/2023	0.0123	0.00201	0.0144	0.00962	0.0404	0.0500	<0.00828	0.000779 J	<0.000468	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00809	<0.00135	0.00229	<0.000511	<0.000655	0.0248	0.00690
	6/23/2023	0.0172	0.00375	0.0266	0.0191	0.0738	0.0929	<0.00828	0.00100	0.00117	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.0110	<0.00135	0.00325	<0.000511	<0.000655	0.0320	0.00823
	6/26/2023	0.0161	0.00327	0.0163	0.0148	0.0553	0.0701	<0.00828	<0.000644	0.00105	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	0.000958 J	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.00672	<0.00135	0.00234	<0.000511	<0.000655	0.0330	0.00840
	7/5/2023	0.0146	0.00280	0.0159	0.0122	0.0469	0.0591	<0.00828	<0.000644	0.000973 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	0.00819	<0.00135	0.00231	<0.000511	<0.000655	0.0255	0.00670
	7/13/2023	0.0223	0.00332	0.0210	0.0162	0.0506	0.0668	<0.00828	0.000658 J	0.000815 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	0.00786	<0.00135	0.00211	<0.000511	<0.000655	0.0289	0.00696
	7/17/2023	0.0131	0.00244	0.0120	0.00986	0.0413	0.0512	<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	0.00600	<0.00135	0.00149	<0.000511	<0.000655	0.0213	0.00498
	7/27/2023	0.0194	0.00357	0.0193	0.0136	0.0487	0.0623	<0.00828	0.000772 J	0.00105	<0.000442	<0.000801	<0.000643	<0.00204	<0.00118	<0.000472	<0.000919	<0.000590	<0.000667	<0.000714	<0.000513	<0.00160	0.01000	<0.00135	0.00265	<0.000511	<0.000655	0.0274	0.00651
	7/31/2023	0.0154	0.00300	0.0147	0.0115	0.0423	0.0538	<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	0.00793	<0.00135	0.00214	<0.000511	<0.000655	0.0252	0.00649
	8/9/2023	0.0126																											



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,			



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	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	2.54	59.9	1,160	619	<4.00	-16.7	6.4	
	6/23/2022	0.321 J	206	0.377 J	0.250	<0.0293	38.4	306	47.2	3.80	73.0	1,150	454	<4.00	11.3	6.5	
	6/29/2022	0.350 J	213	0.505	0.207	<0.0293	44.4	243	49.9	3.79	77.7	889	674	<4.00	-6.92	6.3	
	7/7/2022	0.425 J	214	0.609	<0.0391	<0.0293	46.0	251	50.6	3.88	77.0	1,470	592	<4.00	-2.28	6.5	
	7/13/2022	0.393 J	212	0.663	0.129	<0.0293	46.2	245	48.1	3.89	74.2	1,160	417	<4.00	5.53	6.3	
	7/20/2022	0.468 J	207	0.383 J	0.0538 J	<0.0293	47.5	251	51.8	4.12	77.2	1,170	742	<4.00	-8.12	6.4	
	7/27/2022	0.437 J	209	0.349 J	0.201	<0.0293	46.2	215	42.6	3.22	68.3	1,350	601	<4.00	-9.64	6.7	
	8/4/2022	0.483 J	211	0.453 J	0.236	<0.0293	45.4	199	39.8	3.04	65.6	1,300	600	<4.00	-13.2	6.4	
	8/10/2022	0.464 J	215	0.475 J	0.103	<0.0293	44.3	278	53.6	4.27	78.9	1,160	567	<4.00	3.02	6.5	
	8/18/2022	0.473 J	213	0.552	0.157	<0.0293	45.4	261	52.0	4.22	80.6	1,370	563	<4.00	0.748	6.5	
	8/24/2022	0.500	222	0.674	<0.100	<0.100	48.7	229	46.5	3.28	72.0	1,280	728	<4.00	-12.7	6.6	
	8/31/2022	0.434 J	217	0.468 J	<0.0391	<0.0293	46.8	253	50.7	4.20	79.3	1,270	651	<4.00	-4.91	6.9	
	9/15/2022	1.55	218	0.688	0.116	<0.0293	47.4	241	52.6	4.39	81.7	1,170	618	<4.00	-4.19	6.4	
	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					



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	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
	12/8/2023	0.500	238	0.645	0.143	<0.0293	45.7	203	40.9	2.71	78.5	1,090	439	<4.00	-4.79	7.0
	12/11/2023	0.640	226	0.564	0.157	0.660	49.7	272	52.6	4.53	84.9	1,280	652	<4.00	-2.23	6.5
	12/18/2023	0.525	234	0.825	0.125	<0.0293	43.2	188	39.9	2.85	72.0	1,140	454	<4.00	-8.07	7.2
	1/2/2024	0.493 J	246	0.774	0.144	<0.0293	25.9	209	41.4	2.81	70.3	1,190	501	<4.00	-7.40	7.1
	1/10/2024	0.497 J	268	0.238 J	0.124	0.548	50.1	377	68.8	6.32	124	1,680	1,110	<4.00	-9.12	6.3
1/15/2024	0.540	307	0.815	0.0931 J	<0.0293	36.4	401	72.3	6.36	130	1,580	1,110	<4.00	-3.33	6.2	
1/25/2024	0.471 J	240	0.666	0.110	<0.0293	27.3	196	41.2	3.09	73.6	1,510	479	<4.00	-6.50	6.9	
1/29/2024	0.560	297	<0.100	0.123	0.704	32.4	432	68.6	6.12	135	1,750	1,030	<4.00	1.85	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-1	5/26/2020	NA	363	0.913	0.998	1.03	283	NA											7.21
	6/30/2020	0.591	342	<0.500	0.145	<0.100	88.8	401	84.7	6.41	191	1,890	1,290	<4.00	NA	6.75			
	8/20/2020	0.634	339	<0.500	<0.100	<0.100	68.3	401	90.3	5.38	147	1,760	1,210	<4.00	NA	6.30			
	10/23/2020	NA	353	NA															
	11/24/2020	0.629	345	0.309 J	0.161	2.00	73.2	412	82.8	5.61	124	1,630	1,200	<4.00	0.400	6.45			
	12/18/2020	NA	375	NA					414	79.7	5.41	117	1,380	1,160	<4.00	1.30	6.58		
	12/23/2020	0.627	339	0.316 J	0.117	<0.0293	73.2	408	82.5	6.58	119	1,600	1,130	<4.00	2.10	6.56			
	12/30/2020	NA	347	NA															6.37
	1/6/2021	NA	325	NA															6.51
	1/12/2021	NA	359						NA					1,160	<4.00	NA	6.42		
	1/20/2021	NA	353						NA					1,160	<4.00	NA	6.34		
	1/27/2021	NA	334						NA					1,010	<4.00	NA	6.44		
	2/3/2021	NA	368						NA					1,130	<4.00	NA	6.38		
	2/10/2021	NA	339						NA					1,160	<4.00	NA	6.45		
	2/24/2021	NA	343						NA					1,070	<4.00	NA	6.45		
	3/4/2021	NA	339						NA					1,070	<4.00	NA	6.38		
	3/10/2021	NA	324						NA					1,020	<4.00	NA	6.34		
	3/17/2021	NA	330						NA					1,020	<4.00	NA	6.16		
	3/25/2021	NA	312	0.367 J	0.129	<0.100	77.5	NA					980	<4.00	NA	6.9			
	3/31/2021	NA	309	0.387 J	0.175	<0.0293	81.3	NA					977	<4.00	NA	6.7			
	4/8/2021	NA	290	0.515	0.0994 J	<0.0293	58.1	NA					933	<4.00	NA	6.5			
	4/15/2021	NA	272	0.583	0.107	<0.0293	54.0	NA					833	<4.00	NA	6.6			
	4/21/2021	NA	299	0.369 J	0.135	<0.0293	52.7	NA					927	<4.00	NA	6.5			
	4/28/2021	NA	315	0.315 J	0.119	<0.0293	57.8	NA					994	<4.00	NA	6.5			
	5/5/2021	NA	317	0.358 J	0.135	<0.0293	68.5	NA					1,020	<4.00	NA	6.5			
	5/13/2021	NA	270	0.492 J	0.125	0.729 J	55.6	NA					819	<4.00	NA	6.8			
	5/19/2021	NA	324	0.335 J	<0.0391	2.58	65.0	NA					1,070	<4.00	NA	6.5			
	5/27/2021	NA	325	0.380 J	0.128	0.148	70.3	NA					971	<4.00	NA	6.3			
	6/2/2021	NA	315	0.305 J	0.146	<0.0293	72.8	NA					979	<4.00	NA	6.5			
	6/10/2021	NA	295	0.561	0.130	1.44	64.7	NA					768	<4.00	NA	6.6			
	6/16/2021	NA	320	0.478 J	0.127	0.243	59.1	NA					811	<4.00	NA	6.7			
	6/22/2021	NA	311	0.478 J	0.119	1.65	56.9	NA					790	<4.00	NA	6.8			
	6/30/2021	NA	308	0.561	0.145	0.168	64.2	NA					813	<4.00	NA	6.7			
	7/1/2021		Levey Well Now Running Full Time																
	7/7/2021	NA	325	0.547	0.127	<0.0293	75.9	NA					761	<4.00	NA	6.8			
	7/14/2021	NA	360	0.418 J	0.134	0.0880 J	112	NA					931	<4.00	NA	6.8			
	7/20/2021	NA	324	0.138 J	0.0457 J	<0.0293	81.5	NA					750	<4.00	NA	6.7			
	7/27/2021	NA	352	0.340 J	0.148	1.22	82.8	NA					786	<4.00	NA	6.7			
	8/5/2021	NA	336	0.426 J	0.117	<0.0293	79.0	NA					695	<4.00	NA	6.9			
	8/11/2021	NA	326	0.342 J	0.153	1.48	85.5	NA					735	<4.00	NA	6.6			
	8/19/2021	NA	334	0.227 J	0.149	1.36	81.9	NA					810	<4.00	NA	6.8			
	8/25/2021	NA	328	0.395 J	0.132	0.947 J	76.5	NA					809	<4.00	NA	6.8			
	9/2/2021	NA	325	0.311 J	0.105	<0.0293	74.7	NA					755	<4.00	NA	6.8			
	9/8/2021	NA	272	0.442 J	0.103	0.782 J	64.5	NA					584	<4.00	NA	6.9			
	9/14/2021	NA	332	0.276 J	0.103	0.776 J	98.4	NA					660	<4.00	NA	7.0			
	9/21/2021	NA	203	0.896	0.186	<0.0293	32.4	NA					419	<4.00	NA	6.9			
	9/29/2021	NA	232	0.659	0.168	0.0819 J	40.1	NA					505	<4.00	NA	6.9			
	10/7/2021	NA	253	0.626	0.186	<0.0293	58.2	NA					567	<4.00	NA	6.9			
	10/13/2021	NA	268	0.659	0.178	<0.0293	62.9	NA					564	<4.00	NA	8.1			
	10/21/2021	NA	293	0.409 J	0.144	<0.0293	81.1	NA					591	<4.00	NA	7.1			
	11/5/2021	NA	282	0.631	0.191	<0.0293	77.1	NA					571	<4.00	NA	7.0			
	11/11/2021	NA	311	0.309 J	0.258	<0.0293	89.9	NA					536	<4.00	NA	7.1			
	11/18/2021	NA	172	0.741	0.151	<0.0293	23.1	NA					314	<4.00	NA	7.4			
	11/24/2021	NA	267	0.429 J	0.220	0.549	81.4	NA					502	<4.00	NA	6.8			
	12/1/2021	NA	222	0.596	0.141	<0.0293	61.0	NA					390	<4.00	NA	7.3			
	12/8/2021	NA	226	0.358 J	0.162	<0.0293	66.0	NA					484	<4.00	NA	6.9			
	12/16/2021	NA	174	0.504	0.143	<0.0293	49.9	NA					398	<4.00	NA	6.9			
	12/22/2021	NA	163	0.517	0.240	<0.0293	40.2	NA					312	<4.00	NA	7.1			
	12/29/2021	NA	142	0.591	0.205	0.295	42.2	NA					302	<4.00	NA	7.3			
	1/6/2022	NA	138	0.471 J	0.180	<0.0293	43.2	NA					335	<4.00	NA	7.0			
	1/12/2022	NA	149	0.491 J	0.154	0.0428 J	42.1	NA					326	<4.00	NA	6.7			
	1/19/2022	NA	141	0.532	0.145	0.227	45.1	NA					324	<4.00	NA	7.0			
	1/26/2022	NA	142	0.548	0.177	0.150	44.7	NA					282	<4.00	NA	7.1			
	2/2/2022		Unable to Sample due to Inclement Weather. Booster Pump for Levey Well Damaged by Freeze.																
	2/8/2022	NA	189	0.631	0.0688 J	0.358	49.6	NA					380	<4.00	NA	6.9			
	2/16/2022	NA	151	0.712	0.0561 J	0.344	41.5	NA					384	<4.00	NA	7.1			
	2/25/2022	NA	171	0.739	0.125	0.156	50.3	NA					342	<4.00	NA	7.1			
	3/3/2022	NA	158	0.531	0.198	0.181	45.9	NA					360	<4.00	NA	6.9			
	3/9/2022	NA	148	0.454 J	0.170	<0.0293	45.4	NA					323	<4.00	NA	7.2			
	3/14/2022		Booster Pump for Levey Well Repaired and Back on Running Full Time.																
	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				



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	8/24/2022	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
	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	
12/8/2023	NA	130	0.351 J	0.143	<0.0293	115	NA					934	<4.00	NA	7.0	
12/11/2023	NA	137	0.358 J	0.127	0.690	123	NA					937	<4.00	NA	6.8	
12/18/2023	NA	132	0.327 J	0.124	<0.0293	111	NA					918	<4.00	NA	6.8	
1/2/2024	NA	134	0.427 J	<0.0391	<0.0293	110	NA					917	<4.00	NA	6.7	
1/10/2024	NA	125	0.417 J	0.0869 J	0.547	122	NA					884	<4.00	NA	6.7	
1/15/2024	NA	136	<0.100	0.0651 J	<0.0293	124	NA					897	<4.00	NA	6.4	
1/25/2024	NA	128	0.508	0.125	<0.0293	116	NA					962	<4.00	NA	6.7	
1/29/2024	NA	139	0.205 J	0.121	<0.0293	125	NA					1,010	<4.00	NA	6.7	



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														
	1/6/2021	NA	124	NA														
	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		
	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			



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	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
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	
12/8/2023	NA	136	0.139 J	0.542	0.521	105	NA					1,330	<4.00	NA	6.5	
12/11/2023	NA	77.6	<0.100	0.339	0.631	84.6	NA					1,300	<4.00	NA	6.3	
12/18/2023	NA	69.2	<0.100	0.242	0.376	78.9	NA					1,290	<4.00	NA	6.3	
1/2/2024	NA	72.9	0.173 J	0.302	0.345	81.5	NA					1,320	<4.00	NA	6.2	
1/10/2024	NA	119	0.137 J	0.477	1.35	96.5	NA					1,390	<4.00	NA	6.2	
1/15/2024	NA	73.4	0.554	0.173	<0.0293	85.8	NA					1,290	<4.00	NA	6.0	
1/25/2024	NA	69.5	0.211 J	0.369	1.10	84.0	NA					1,360	<4.00	NA	6.4	
1/29/2024	NA	71.5	<0.100	0.272	0.640	90.8	NA					1,290	<4.00	NA	6.2	



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.							



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	2/8/2022	<0.495	95.7	<0.895	<0.895	<0.864	<0.895	20.8
	2/16/2022	<0.495	61.0	<0.877	<0.877	<0.846	<0.877	18.7
	2/25/2022	<0.495	54.2	<0.923	<0.923	<0.891	<0.923	20.0
	3/3/2022	<0.495	90.5	<0.935	<0.935	<0.902	<0.935	18.2
	3/9/2022	<0.495	40.7	<0.874	<0.874	<0.874	<0.874	18.1
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	67.6	<0.959	<0.959	<0.959	<0.959	18.1
	3/24/2022	<0.495	37.5	<0.901	<0.901	<0.869	<0.901	18.9
	3/31/2022	<0.495	43.7	<0.926	<0.926	<0.894	<0.926	19.0
	4/6/2022	<0.495	41.6	<0.926	<0.926	<0.894	<0.926	18.1
	4/13/2022	<0.495	13.0	<0.918	<0.918	<0.886	<0.918	19.0
	4/20/2022	<0.495	72.4	<0.904	<0.904	<0.872	<0.904	18.3
	4/28/2022	<0.495	18.9	<0.890	<0.890	<0.859	<0.890	19.9
	5/5/2022	<0.495	31.8	<0.912	<0.912	<0.880	<0.912	19.5
	5/10/2022	1.20 J	31.5	<0.985	<0.985	<0.950	<0.985	16.7
	5/19/2022	0.600 J	41.5	<0.926	<0.926	<0.894	<0.926	20.3
	5/26/2022	1.00 J	32.2	<0.920	<0.920	<0.888	<0.920	18.0
	6/1/2022	0.800 J	19.0	<0.926	<0.926	<0.894	<0.926	20.5
	6/9/2022	0.600 J	24.6	<0.962	<0.962	<0.929	<0.962	20.3
	6/17/2022	<0.495	21.1	<0.918	<0.918	<0.886	<0.918	18.3
	6/23/2022	0.800 J	32.5	<0.932	<0.932	<0.900	<0.932	18.0
	6/29/2022	1.00 J	33.2	0.954 J	<0.923	<0.891	0.954 J	15.8
	7/7/2022	0.600 J	22.2	<0.947	<0.947	<0.914	<0.947	23.1
	7/13/2022	<0.495	31.9	<0.950	<0.950	<0.917	<0.950	20.6
	7/20/2022	<0.495	31.4	<0.959	<0.959	<0.926	<0.959	20.0
	7/27/2022	<0.495	10.6	<0.904	<0.904	<0.872	<0.904	17.6
	8/4/2022	0.800 J	31.9	<0.906	<0.906	<0.875	<0.906	19.2
	8/10/2022	1.00 J	35.0	<0.929	<0.929	<0.897	<0.929	19.8
	8/18/2022	<0.495	52.4	<1.04	<1.04	<1.00	<1.04	20.7
	8/24/2022	1.40 J	34.4	<4.78	<4.78	<4.78	<4.78	18.2
	8/31/2022	1.20 J	22.0	<0.932	<0.932	<0.900	<0.932	19.9
	9/15/2022	0.800 J	55.4	<0.988	<0.988	<0.954	<0.988	18.6
	9/22/2022	<0.495	28.0	<0.944	<0.944	<0.911	<0.944	21.0
	9/28/2022	1.20 J	28.5	<0.956	<0.956	<0.923	<0.956	17.9
	10/4/2022	0.800 J	34.2	<0.895	<0.895	<0.864	<0.895	17.8
	10/14/2022	1.20 J	26.6	<0.935	<0.935	<0.902	<0.935	18.7
	10/19/2022	<0.495	22.4	<0.981	<0.981	<0.947	<0.981	18.4
	10/27/2022	<0.495	22.0	<1.00	<1.00	<0.968	<1.00	25.0
	11/2/2022	<0.495	31.7	<0.972	<0.972	<0.938	<0.972	25.0
	11/9/2022	<0.495	33.0	<0.972	<0.972	<0.938	<0.972	21.4
	11/16/2022	<0.495	28.2	<1.00	<1.00	<0.970	<1.00	18.0
	11/30/2022	<0.495	30.0	<0.915	<0.915	<0.883	<0.915	18.5
	12/9/2022	<0.495	19.5	<1.00	<1.00	<0.970	<1.00	17.1
	12/15/2022	<0.495	43.9	<0.918	<0.918	<0.886	<0.918	15.7
	12/21/2022	<0.495	37.8	<0.890	<0.890	<0.859	<0.890	15.8
	12/29/2022	<0.495	64.9	<0.938	<0.938	<0.905	<0.938	16.7
	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	



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	5/11/2023	<0.495	73.0	<0.912	<0.912	<0.880	<0.912	18.1
	5/15/2023	<0.495	116	<0.920	<0.920	<0.888	<0.920	16.4
	5/25/2023	<0.495	137	<0.935	<0.935	<0.902	<0.935	17.6
	5/30/2023	<0.495	693	<0.944	<0.944	<0.911	<0.944	18.4
	6/9/2023	<0.495	165	<0.941	2.21 J	<0.908	2.21 J	19.1
	6/15/2023	<0.495	168	<0.935	<0.935	<0.902	<0.935	20.2
	6/23/2023	<0.495	75.4	<0.991	<0.991	<0.957	<0.991	20.2
	6/26/2023	<0.495	186	<0.920	<0.920	<0.888	<0.920	20.3
	7/5/2023	<0.0400	83.7	<1.03	<1.03	<0.993	<1.03	20.5
	7/13/2023	<0.0400	186	<0.965	<0.965	<0.932	<0.965	20.6
	7/17/2023	<0.0400	193	<1.02	<1.02	<0.980	<1.02	21.4
	7/27/2023	<0.0400	164	<0.929	<0.929	<0.897	<0.929	21.4
	7/31/2023	<0.0400	68.6	<1.17	<1.17	<1.13	<1.17	19.0
	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
	12/8/2023	<0.0400	187	<0.880	<0.880	<0.849	<0.880	22.1
	12/11/2023	<0.0400	297	<0.988	<0.988	<0.954	<0.988	20.6
	12/18/2023	<0.0400	291	0.956 J	<0.923	<0.891	0.956 J	20.5
	1/2/2024	<0.0400	366	<1.03	<1.03	<0.990	<1.03	12.6
	1/10/2024	<0.0400	352	<0.988	<0.988	<0.954	<0.988	16.3
	1/15/2024	<0.0400	714	<1.06	<1.06	<1.03	<1.06	19.0
	1/25/2024	<0.0400	384	<0.965	<0.965	<0.932	<0.965	18.0
	1/29/2024	<0.0400	404	<0.953	<0.953	<0.920	<0.953	20.4



TABLE 3
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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	



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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	2/16/2022	<0.495	1,670	0.974 J	<0.864	<0.834	0.974 J	18.3
	2/25/2022	<0.495	1,280	1.43 J	<0.965	<0.932	1.43 J	19.9
	3/3/2022	<0.495	2,160	1.86 J	<0.909	<0.877	1.86 J	18.1
	3/9/2022	<0.495	1,680	1.77 J	<0.947	<0.914	1.77 J	18.4
	3/14/2022	Booster Pump for Levey Well Repaired and Back on Running Full Time.						
	3/16/2022	<0.495	1,700	2.22 J	<0.915	<0.883	2.22 J	18.1
	3/24/2022	<0.495	1,330	1.29 J	<0.909	<0.877	1.29 J	19.1
	3/31/2022	<0.495	1,340	1.28 J	<0.938	<0.905	1.28 J	19.0
	4/6/2022	<0.495	1,720	1.00 J	<0.938	<0.905	1.00 J	18.1
	4/13/2022	<0.495	874	0.915 J	<0.906	<0.875	0.915 J	19.0
	4/20/2022	<0.495	1,060	1.06 J	<0.901	<0.869	1.06 J	18.6
	4/28/2022	<0.495	1,100	1.76 J	<0.915	<0.883	1.76 J	19.8
	5/5/2022	0.600 J	1,330	1.40 J	<0.920	<0.888	1.40 J	19.2
	5/10/2022	<0.495	1,320	1.63 J	<0.965	<0.932	1.63 J	16.8
	5/19/2022	<0.495	1,740	1.80 J	<0.915	<0.883	1.80 J	20.5
	5/26/2022	<0.495	2,650	1.02 J	<0.950	<0.917	1.02 J	18.1
	6/1/2022	<0.495	1,340	1.43 J	<0.909	<0.877	1.43 J	20.5
	6/9/2022	<0.495	1,080	1.23 J	<0.938	<0.905	1.23 J	19.8
	6/17/2022	<0.495	894	1.49 J	<0.895	<0.864	1.49 J	17.8
	6/23/2022	<0.495	1,270	1.25 J	<0.920	<0.888	1.25 J	18.0
	6/29/2022	<0.495	1,680	<0.935	<0.935	<0.902	<0.935	15.9
	7/7/2022	<0.495	1,190	0.912 J	<0.906	<0.875	0.912 J	23.0
	7/13/2022	<0.495	1,610	1.17 J	<0.947	<0.914	1.17 J	20.1
	7/20/2022	<0.495	1,360	1.07 J	<0.981	<0.947	1.07 J	19.8
	7/27/2022	<0.495	1,070	1.49 J	<0.975	<0.941	1.49 J	18.2
	8/4/2022	<0.495	1,570	1.31 J	<0.904	<0.872	1.31 J	19.2
	8/10/2022	<0.495	1,260	1.17 J	<0.932	<0.900	1.17 J	19.3
	8/18/2022	<0.495	1,280	1.43 J	7.62	<0.897	9.05	21.3
	8/24/2022	<5.00	1,300	1.18 J	<4.63	<4.63	1.18 J	18.0
	8/31/2022	1.00 J	1,290	1.08 J	<0.950	<0.917	1.08 J	20.0
	9/15/2022	<0.495	1,320	1.83 J	<1.07	<1.04	1.83 J	18.9
	9/22/2022	<0.495	1,320	1.56 J	<1.05	<1.01	1.56 J	20.9
	9/28/2022	<0.495	1,280	1.06 J	<1.05	<1.01	1.06 J	18.6
	10/4/2022	<0.495	1,670	1.11 J	<0.904	<0.872	1.11 J	17.6
	10/14/2022	<0.989	1,670	1.12 J	<0.915	<0.883	1.12 J	18.1
	10/19/2022	<0.495	814	1.46 J	<0.877	<0.846	1.46 J	18.3
	10/27/2022	<0.495	1,350	<0.988	<0.988	<0.954	<0.988	25.0
	11/2/2022	<0.495	1,680	1.82 J	<0.978	<0.944	1.82 J	25.0
	11/9/2022	<4.95	1,220	1.14 J	<0.978	<0.944	1.14 J	21.2
	11/16/2022	<0.495	653	2.20 J	<0.909	<0.877	2.20 J	18.0
	11/30/2022	<0.495	1,030	<0.959	<0.959	<0.926	<0.959	18.7
	12/9/2022	<0.495	1,030	1.38 J	<0.969	<0.935	1.38 J	17.3
	12/15/2022	<0.495	1,440	1.71 J	<0.988	<0.954	1.71 J	15.3
	12/21/2022	<0.495	1,280	1.11 J	<0.904	<0.872	1.11 J	16.3
	12/29/2022	<0.495	789	<0.923	<0.923	<0.891	<0.923	17.3
	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	



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	6/15/2023	<0.495	1,050	1.50 J	<0.904	<0.872	1.50 J	20.4
	6/23/2023	<0.495	62.6	1.47 J	<0.935	<0.902	1.47 J	21.0
	6/26/2023	<0.495	1,070	<0.929	<0.929	<0.897	<0.929	20.6
	7/5/2023	<0.0400	1,030	1.24 J	<0.972	<0.938	1.24 J	21.4
	7/13/2023	<0.0400	1,040	0.971 J	<0.956	<0.923	0.971 J	20.2
	7/17/2023	<0.0400	1,280	1.19 J	<0.991	<0.957	1.19 J	20.6
	7/27/2023	<0.0400	1,270	1.15 J	<0.898	<0.867	1.15 J	20.6
	7/31/2023	<0.0400	422	1.37 J	<1.15	<1.11	1.37 J	18.9
	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
	12/8/2023	<0.0400	842	<0.926	<0.926	<0.894	<0.926	22.0
	12/11/2023	<0.0400	1,310	1.08 J	<0.965	<0.932	1.08 J	20.9
	12/18/2023	<0.0400	1,290	<0.972	<0.972	<0.938	<0.972	20.7
	1/2/2024	<0.0400	1,670	2.21 J	<1.03	<0.997	2.21 J	12.8
	1/10/2024	<0.0400	1,760	1.40 J	<0.995	<0.960	1.40 J	16.4
	1/15/2024	<0.0400	2,580	<1.05	<1.05	<1.01	<1.05	18.7
	1/25/2024	<0.0400	1,360	<0.956	<0.956	<0.923	<0.956	18.2
	1/29/2024	<0.0400	1,620	<0.998	<0.998	<0.963	<0.998	20.4

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

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	12/8/2021	1337	<238	69.0	<62.1	<49.8	<33.0	<82.5	19,300	<64.8	<63.4	997	126	121	<89.9	<79.1	36,000	136,000	<78.7	76.0	<409	1,510	<409	<65.5	<264	5,900	<68.1	<109	<47.2	298	<87.0	<85.7	162	226	<56.3	157	102	657,000
	12/17/2021	1210	5,370	<128	<155	<124	<82.6	<206	298,000	<162	<159	960	<173	<196	<225	<198	442,000	2,980,000	<197	<139	<1,020	2,170	<1,020	<164	<660	4,920	<170	<272	<118	<377	<218	<214	<196	<196	<141	<347	<173	7,640,000
	12/20/2021	0929	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	379,000	<8,100	<7,930	50,300	<8,670	<9,820	<11,200	<9,890	532,000	3,380,000	<9,830	<6,940	<51,100	<36,900	<51,200	<8,190	<33,000	196,000	<8,510	<13,600	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	14,000,000
		0953	Initiate Vacuum Recovery Event																																			
		1129	1,190	<31.9	<38.8	<31.1	<20.7	<51.5	10,400	<40.5	<39.6	581	92.3	<49.1	<56.2	<49.5	20,200	80,400	<49.2	<34.7	<256	286	<256	<40.9	<165	3,860	<42.5	<67.9	<29.5	122	<54.4	<53.6	113	99.6	<35.2	132	55.9	392,000
		1145	Vacuum Recovery Event Terminated																																			
	12/22/2021	1305	727	<12.8	<15.5	<12.4	<8.26	<20.6	3,930	<16.2	<15.9	<47.1	54.2	47.6	<22.5	<19.8	2,520	5,180	25.6	<13.9	<102	122	<102	<16.4	<66.0	676	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	129	103	<14.1	85.8	40.8	188,000
		1130	848	<12.8	<15.5	<12.4	<8.26	<20.6	<13.8	<16.2	<15.9	<47.1	41.9	147	<22.5	<19.8	7,030	42,000	39.7	<13.9	<102	<73.7	<102	<16.4	<66.0	649	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	152	92.3	<14.1	111	58.5	247,000
		12/29/2021	1215	<297	<6.39	<77.6	<62.2	<41.3	<10.3	503	<8.10	<79.3	1,490	21.9	44.1	<112	<98.9	630	5,780	37.2	<69.4	<51.1	<369	<51.2	<8.19	<33.0	1,110	<8.51	<13.6	<59.0	<18.8	<109	<10.7	112	63.3	<70.4	75.4	31.6
	1/3/2022	0756	<297	<63.9	<77.6	<62.2	<41.3	<103	108,000	<81.0	<79.3	1,200	<86.7	<98.2	<112	<98.9	234,000	606,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	6,610	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,020,000
		0759	Initiate Vacuum Recovery Event																																			
		0823	<59.4	<12.8	<15.5	<12.4	407	<20.6	3,960	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	12,800	28,200	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	62.9	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	177,000
		0904	<14.9	<3.19	<3.88	<3.11	<2.07	<5.15	2,240	<4.05	<3.96	<11.8	<4.34	<4.91	<5.62	<4.95	6,130	17,800	<4.92	<3.47	<25.6	<18.4	<25.6	<4.09	<16.5	19.3	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	8.25	5.64	<3.52	<8.67	<4.34	101,000
		0920	Vacuum Recovery Event Terminated																																			
		1031	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	4,580	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	5,690	15,800	<19.7	<13.9	<102	<73.7	<102	<16.4	<66.0	87.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	22.7	<19.6	<14.1	<34.7	<17.3	188,000
	1/6/2022	0000	<297	<63.9	<77.6	<62.2	<41.3	<103	10,600	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	20,500	130,000	<98.3	110	<511	<369	<512	<81.9	<330	4,230	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	508,000
	1/12/2022	1352	31,400	<12.8	<15.5	<12.4	<8.26	<20.6	164,000	<16.2	<15.9	<47.1	115	491	<22.5	<19.8	342,000	1,680,000	98.8	<13.9	<102	5,570	<102	<16.4	85.9	81,900	<17.0	<27.2	<11.8	263	<21.8	<21.4	400	433	<14.1	341	156	6,820,000
	1/17/2022	0852	14,900	<639	<776	<622	<413	<1,030	119,000	<810	<793	<2,360	<867	<982	<1,120	<989	160,000	1,440,000	<983	<694	<5,110	<3,690	<5,120	<819	<3,300	25,800	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	6,110,000
		0853	Initiate Vacuum Recovery Event																																			
		0919	227	<0.639	<0.776	<0.622	<0.413	<1.03	3,650	<0.810	<0.793	19.8	2.15	1.70	1.52	1.84	6,260	19,100	1.22	<0.694	<5.11	<3.69	<5.12	<0.819	<3.30	202	<0.851	<1.36	<0.590	8.32	<1.09	<1.07	2.84	2.87	<0.704	5.20	2.15	132,000
		1004	90.3	<0.639	<0.776	<0.622	1.30	<1.03	747	<0.810	<0.793	56.2	2.58	4.13	1.40	2.60	1,610	4,300	2.46	<0.694	<5.11	16.4	<5.12	<0.819	<3.30	114	<0.851	2.69	<0.590	15.6	<1.09	<1.07	11.5	8.44	<0.704	7.50	3.13	31,600
		1021	Vacuum Recovery Event Terminated																																			
		1134	466	<0.639	<0.776	<0.622	1.64	<1.03	2,400	<0.810	<0.793	16.8	5.42	9.67	1.38	2.14	4,620	10,800	5.26	<0.694	<5.11	54.3	<5.12	<0.819	3.42	494	<0.851	27.5	<0.590	23.8	<1.09	<1.07	20.8	18.7	<0.704	17.7	7.46	95,400
	1/19/2022	1208	454	<31.9	<38.8	<31.1	<20.7	<51.5	11,300	<40.5	<39.6	149	<43.4	94.2	<56.2	<49.5	28,800	171,000	<49.2	<34.7	<256	<184	<256	966	<165	3,740	<42.5	<67.9	<29.5	<94.2	<54.4	<53.6	81.0	221	<35.2	<86.7	<43.4	508,000
	1/26/2022	1251	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	28,900	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	22,900	313,000	<22.5	<13.9	<102	<73.7	<102	<16.4	<66.0	248	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	1,180,000
	2/2/2022	0921	4,040	5,940	<155	<124	<82.6	<206	229,000	<162	<159	<471	195	<196	<225	<198	217,000	8,710,000	<197	<139	<1020	1,360	<1,020	<164	<660	10,800	<170	<272	<118	1,220	<218	<214	<196	<196	<141	481	<173	3,620,000
		0922	Initiate Vacuum Recovery Event																																			
		0950	337	415	<15.5	<12.4	<8.26	<20.6	16,700	<16.2	<15.9	<47.1	147	<19.6	<22.5	<19.8	36,200	114,000	<19.7	<13.9	<102	231	<102	<16.4	<66.0	88.2	<17.0	<27.2	<11.8	313	<21.8	<21.4	27.0	<19.6	<14.1	370	108	409,000
		1030	56.8	29.9	<0.776	<0.622	<0.413	<1.03	2,280	<0.810	<0.793	10.5	25.2	<0.982	<1.12	2.47	5,440	9,380	2.05	<0.694	<5.11	34.5	<5.12	<0.819	<3.30	30.2	<0.851	<1.36	<0.590	46.3	<1.09	<1.07	9.18	6.58	<0.704	62.9	17.6	71,500
		1047	Vacuum Recovery Event Terminated																																			
	1158	80.8	29.7	<0.776	<0.622	<0.413	<1.03	2,750	<0.810	<0.793	4.13	19.1	<0.982	<1.12	2.58	5,850	8,670	1.82	<0.694	<5.11	36.9	<5.12	<0.819	<3.30	43.0	<0.851	<1.36	<0.590	38.8	<1.09	<1.07	7.80	5.35	<0.704	46.8	13.0	59,500	
	2/8/2022	1200	88.6	<0.639	<0.776	<0.622	<0.413	<1.03	1,310	<0.810	<0.793	<2.36	27.2	<0.982	<1.12	<0.989	2,640	13,700	14.5	<0.694	<5.11	15.5	<5.12	<0.819	3.64	76.2	<0.851	3.38	<0.590	12.3	<1.09	<1.07	43.8	46.5	<0.704	91.9	39.4	83,000
	2/16/2022	1224	215	<12.8	<15.5	<12.4	<8.26	<20.6	37,500	<16.2	<15.9	<47.1	<17.3	22.1	<22.5	<19.8	7,td																					

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	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																																			
		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
	3/31/2022	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																																			
		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
	4/20/2022	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	93.3	<56.3	<139	<69.4	735,000
	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																																			
		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
	4/28/2022	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	<1.36	<0.590	113	<1.09	<1.07	26.6	17.2	<0.704	47.3	20.8	22,600
	5/5/2022	1454	<1,190	<256	<311	<249	<165	<412	30,500	<324	<317	<943	<347	<393	<450	<396	47,000	673,000	<393	<278	<2,040	<1,470	<2,050	<328	<1,320	8,900	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	1,430,000
	5/9/2022	0958	<1,190	<256	<311	<249	<165	<412	49,200	<324	<317	2,660	<347	<393	<450	<396	66,300	850,000	<393	<278	<2,040	3,480	<2,050	<328	<1,320	26,100	<340	<543	<236	<753	<435	<429	<393	<393	<282	<694	<347	2,380,000
		1000	Initiate Vacuum Recovery Event																																			
		1020	333	<0.639	<0.776	1.34	1.81	<1.03	995	<0.810	<0.793	42.4	4.07	17.1	<1.12	1.20	2,530	8,780	<0.983	<0.694	<5.11	203	<5.12	<0.819	5.09	76.2	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	12.9	20.8	<0.704	7.02	5.94	54,100
		1057	90.8	<0.639	<0.776	<0.622	2.85	<1.03	159	<0.810	<0.793	13.3	<0.867	1.08	1.31	1.81	385	1,040	<0.983	<0.694	<5.11	33.6	<5.12	<0.819	<3.30	13.7	<0.851	<1.36	<0.590	<1.88	<1.09	<1.07	1.54	2.56	<0.704	<1.73	1.03	8,220
		1105	Vacuum Recovery Event Terminated																																			
		1218	130	1.41	6.83	31.0	15.5	<1.03	3,090	<0.810	<0.793	32.2	3.73	7.02	<1.12	<0.989	6,260	4,830	1.60	<0.694	<5.11	193	<5.12	<0.819	<3.30	403	<0.851	<1.36	<0.590	6.37	<1.09	<1.07	8.59	15.2	<0.704	5.64	5.03	124,000
	5/19/2022	1315	<238	<51.1	<62.1	<49.8	<33.0	<82.5	104,000	<64.8	<63.4	1,070	<69.4	<78.5	<89.9	<79.1	183,000	1,340,000	<78.7	105	<409	<295	<409	<65.5	<264	4,130	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	<78.5	<56.3	<139	<69.4	4,750,000
	5/23/2022	1015	12,100	<51.1	<62.1	<49.8	<33.0	<82.5	558,000	<96.2	<63.4	<189	<69.4	633	<89.9	<79.1	912,000	8,140,000	<78.7	<55.6	<409	14,100	<409	<65.5	<264	7,740	<68.1	<109	<47.2	<151	<87.0	<85.7	376	854	<56.3	<139	<69.4	27,600,000
		1017	Initiate Vacuum Recovery Event																																			
		1100	<238	<51.1	<62.1	<49.8	<33.0	<82.5	13,400	<64.8	<63.4	549	<69.4	158	<89.9	<79.1	70,800	263,000	<78.7	<55.6	<409	1,090	<409	<65.5	<264	7,450	<68.1	<109	<47.2	<151	<87.0	<85.7	86.9	215	<56.3	<139	<69.4	702,000
		1200	927	<12.8	<15.5	<12.4	<10.6	<20.6	6,410	<16.2	<15.9	196	<17.3	185	<22.5	<19.8	15,200	50,400	<19.7	<13.9	<102	590	<102	<16.4	<66.0	263	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	121	271	<14.1	<34.7	<17.3	450,000
		1215	Vacuum Recovery Event Terminated																																			
		1355	4,350	<51.1	<62.1	<49.8	88.6	<82.5	16,300	<64.8	<63.4	562	<69.4	146	<89.9	<79.1	47,000	154,000	<78.7	<55.6	<409	1,580	<409	<65.5	<264	7,520	<68											

TABLE 4									
AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY									
Levey Well									
Oxy Permian Ltd.									
Hobbs, New Mexico									
Ensolum Project No. 03B1417001									
DATE	TIME	WELL	DEPTH	ANALYST	LABORATORY	ANALYSIS	RESULTS	REMARKS	APPROVED
01/01/2020	10:00	Levey	100	J. Smith	ABC Lab	VOCs	0.5 mg/m³	Clear	John Doe
01/02/2020	11:00	Levey	100	J. Smith	ABC Lab	VOCs	0.6 mg/m³	Clear	John Doe
01/03/2020	12:00	Levey	100	J. Smith	ABC Lab	VOCs	0.7 mg/m³	Clear	John Doe
01/04/2020	13:00	Levey	100	J. Smith	ABC Lab	VOCs	0.8 mg/m³	Clear	John Doe
01/05/2020	14:00	Levey	100	J. Smith	ABC Lab	VOCs	0.9 mg/m³	Clear	John Doe
01/06/2020	15:00	Levey	100	J. Smith	ABC Lab	VOCs	1.0 mg/m³	Clear	John Doe
01/07/2020	16:00	Levey	100	J. Smith	ABC Lab	VOCs	1.1 mg/m³	Clear	John Doe
01/08/2020	17:00	Levey	100	J. Smith	ABC Lab	VOCs	1.2 mg/m³	Clear	John Doe
01/09/2020	18:00	Levey	100	J. Smith	ABC Lab	VOCs	1.3 mg/m³	Clear	John Doe
01/10/2020	19:00	Levey	100	J. Smith	ABC Lab	VOCs	1.4 mg/m³	Clear	John Doe
01/11/2020	20:00	Levey	100	J. Smith	ABC Lab	VOCs	1.5 mg/m³	Clear	John Doe
01/12/2020	21:00	Levey	100	J. Smith	ABC Lab	VOCs	1.6 mg/m³	Clear	John Doe
01/13/2020	22:00	Levey	100	J. Smith	ABC Lab	VOCs	1.7 mg/m³	Clear	John Doe
01/14/2020	23:00	Levey	100	J. Smith	ABC Lab	VOCs	1.8 mg/m³	Clear	John Doe
01/15/2020	00:00	Levey	100	J. Smith	ABC Lab	VOCs	1.9 mg/m³	Clear	John Doe
01/16/2020	01:00	Levey	100	J. Smith	ABC Lab	VOCs	2.0 mg/m³	Clear	John Doe
01/17/2020	02:00	Levey	100	J. Smith	ABC Lab	VOCs	2.1 mg/m³	Clear	John Doe
01/18/2020	03:00	Levey	100	J. Smith	ABC Lab	VOCs	2.2 mg/m³	Clear	John Doe
01/19/2020	04:00	Levey	100	J. Smith	ABC Lab	VOCs	2.3 mg/m³	Clear	John Doe
01/20/2020	05:00	Levey	100	J. Smith	ABC Lab	VOCs	2.4 mg/m³	Clear	John Doe
01/21/2020	06:00	Levey	100	J. Smith	ABC Lab	VOCs	2.5 mg/m³	Clear	John Doe
01/22/2020	07:00	Levey	100	J. Smith	ABC Lab	VOCs	2.6 mg/m³	Clear	John Doe
01/23/2020	08:00	Levey	100	J. Smith	ABC Lab	VOCs	2.7 mg/m³	Clear	John Doe
01/24/2020	09:00	Levey	100	J. Smith	ABC Lab	VOCs	2.8 mg/m³	Clear	John Doe
01/25/2020	10:00	Levey	100	J. Smith	ABC Lab	VOCs	2.9 mg/m³	Clear	John Doe
01/26/2020	11:00	Levey	100	J. Smith	ABC Lab	VOCs	3.0 mg/m³	Clear	John Doe
01/27/2020	12:00	Levey	100	J. Smith	ABC Lab	VOCs	3.1 mg/m³	Clear	John Doe
01/28/2020	13:00	Levey	100	J. Smith	ABC Lab	VOCs	3.2 mg/m³	Clear	John Doe
01/29/2020	14:00	Levey	100	J. Smith	ABC Lab	VOCs	3.3 mg/m³	Clear	John Doe
01/30/2020	15:00	Levey	100	J. Smith	ABC Lab	VOCs	3.4 mg/m³	Clear	John Doe
01/31/2020	16:00	Levey	100	J. Smith	ABC Lab	VOCs	3.5 mg/m³	Clear	John Doe
02/01/2020	17:00	Levey	100	J. Smith	ABC Lab	VOCs	3.6 mg/m³	Clear	John Doe
02/02/2020	18:00	Levey	100	J. Smith	ABC Lab	VOCs	3.7 mg/m³	Clear	John Doe
02/03/2020	19:00	Levey	100	J. Smith	ABC Lab	VOCs	3.8 mg/m³	Clear	John Doe
02/04/2020	20:00	Levey	100	J. Smith	ABC Lab	VOCs	3.9 mg/m³	Clear	John Doe
02/05/2020	21:00	Levey	100	J. Smith	ABC Lab	VOCs	4.0 mg/m³	Clear	John Doe
02/06/2020	22:00	Levey	100	J. Smith	ABC Lab	VOCs	4.1 mg/m³	Clear	John Doe
02/07/2020	23:00	Levey	100	J. Smith	ABC Lab	VOCs			

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	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	3,630,000
	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	<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	<1.36	<0.590	<1.88	<1.09	<1.07	9.87	21.1	<0.704	9.58	<0.867	88,000
		1405	611	<3.19	<3.88	<3.11	<2.07	<5.15	1,630	<4.05	<3.96	46.2	<4.34	<4.91	<5.62	<4.95	1,390	5,540	<4.92	<3.47	<25.6	226	<25.6	<4.09	<16.5	88.7	<4.25	<6.79	<2.95	<9.42	<5.44	<5.36	11.2	20.9	<3.52	14.2	<4.34	79,300
		1405	Vacuum Recovery Event Terminated																																			
	1513	3,800	<63.9	<77.6	<62.2	<41.3	<103	9,260	<81.0	<79.3	2,680	<86.7	<98.2	<112	<98.9	19,100	75,800	<98.3	<69.4	<511	1,750	<512	<81.9	<330	42,500	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	504,000	
	8/18/2022	1231	<238	<51.1	<62.1	246	<33.0	<82.5	146,000	<64.8	<63.4	769	<69.4	<78.5	<89.9	<79.1	295,000	1,370,000	<78.7	63.9	<409	6,250	<409	<65.5	<264	15,500	<68.1	<109	<47.2	<151	<87.0	<85.7	<78.5	148	<56.3	<139	95.4	7,520,000
	8/24/2022	1147	<297	<63.9	<77.6	<62.2	<41.3	<103	585,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	1,050,000	8,950,000	<98.3	<69.4	<511	13,900	<512	<81.9	<330	13,500	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	40,800,000
	8/31/2022	1247	132,000	<256	<311	<249	<165	<412	71,300	<324	<317	1,430	<347	<393	<450	<396	112,000	959,000	<393	<278	<2,040	3,660	5,530	<328	<1,320	16,500	<340	<543	<236	<753	<435	<429	<393	<393	<282	<282	<347	2,480,000
	9/8/2022	1247	57,500	<1,280	<1,550	<1,240	<826	<2,060	403,000	<1,620	<1,590	5,640	<1,730	<1,960	<2,250	<1,980	646,000	6,030,000	<1,970	<1,390	<10,200	46,600	<10,200	<1,640	<6,600	30,200	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	49,700	<3,470	<1,730	19,800,000
	9/15/2022	1342	<149	<31.9	<38.8	47.0	<20.7	<51.5	29,100	<40.5	<39.6	1,330	<43.4	<49.1	<56.2	<49.5	59,700	353,000	<49.2	77.8	<256	1,350	<256	<40.9	<165	6,070	<42.5	80.1	<29.5	<94.2	<54.4	<53.6	<49.1	<49.1	<35.2	<86.7	<43.4	830,000
	9/22/2022	1337	151,000	<2,560	<3,110	<2,490	<1,650	<4,120	554,000	<3,240	<3,170	288,000	3,590	<3,930	<4,500	<3,960	573,000	35,200,000	<3,930	<2,780	<20,400	57,200	<20,500	7,700	<13,200	6,930,000	4,110	33,800	<2,360	17,100	<4,350	<4,290	6,090	<3,930	<2,820	14,000	6,680	27,700,000
	9/26/2022	1046	39,900	<639	<776	<622	<413	<1,030	641,000	<810	<793	5,710	<867	<982	<1,120	<989	1,060,000	9,450,000	<983	<694	<5,110	20,100	<5,120	<819	<3,300	38,100	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	19,600,000
		1255	Initiate Vacuum Recovery Event																																			
		1403	337	<12.8	<15.5	<12.4	<8.26	<20.6	4,170	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	4,830	33,700	<19.7	<13.9	<102	292	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	189,000
		1512	116	<12.8	<15.5	<12.4	<8.26	<20.6	830	<16.2	<15.9	68.1	<17.3	<19.6	<22.5	<19.8	986	4,120	<19.7	<13.9	<102	104	<102	<16.4	<66.0	<61.5	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	<19.6	<14.1	<34.7	<17.3	39,100
		1512	Vacuum Recovery Event Terminated																																			
	1609	297	<12.8	<15.5	<12.4	<8.26	<20.6	2,100	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	2,380	12,700	<19.7	<13.9	<102	330	<102	<16.4	<66.0	109	<17.0	<27.2	<11.8	<37.7	<21.8	<21.4	<19.6	23.7	<14.1	<34.7	<17.3	88,400	
	9/28/2022	1215	14,200	<63.9	<77.6	136	<41.3	<103	118,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	241,000	1,110,000	<98.3	<69.4	<511	6,840	<512	<81.9	<330	6,660	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	4,790,000
	10/4/2022	1327	<29,700	<6,390	<7,760	<6,220	<4,130	<10,300	499,000	<8,100	<7,930	766,000	<8,670	<9,820	<11,200	<9,890	908,000	6,490,000	<9,830	<6,940	<51,100	66,900	<51,200	188,000	<33,000	3,440,000	<8,510	27,500	<5,900	<18,800	<10,900	<10,700	<9,820	<9,820	<7,040	<17,300	<8,670	32,000,000
	10/10/2022	1226	15,900	<128	<155	128	<82.6	<206	413,000	<162	<159	2,070	<173	<196	<225	<198	658,000	7,760,000	<197	<139	<1,020	11,900	<1,020	<164	<660	9,510	<170	<272	<118	<377	<218	1,390	<196	206	<141	<347	<173	24,600,000
		1230	Initiate Vacuum Recovery Event																																			
		1326	71.1	1.52	<0.776	0.741	9.21	<1.03	1,400	<0.810	<0.793	14.8	<0.867	3.48	<1.12	1.36	3,850	14,900	<0.983	0.913	<5.11	109	<5.12	<0.819	<3.30													

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	11/16/2022	1335	34,900	<639	<776	<622	<413	<1,030	<689	<810	<793	35,600	<867	<982	<1,120	<989	267,000	3,840,000	<983	<694	<5,110	19,500	<5,120	<819	<3,300	35,200	<851	<1,360	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	12,800,000
	11/21/2022	1115	65,800	<639	<776	<622	<413	<1,030	<689	<810	<793	16,900	<867	<982	<1,120	<989	642,000	10,900,000	<983	<694	<5,110	33,000	<5,120	<819	<3,300	35,400	<851	1,620	<590	<1,180	<1,090	<1,070	<982	<982	<704	<1,730	<867	38,900,000
	11/30/2022	1316	<297	<63.9	<77.6	<62.2	<41.3	<103	458,000	<81.0	<79.3	<236	<86.7	<98.2	<112	<98.9	757,000	6,200,000	<98.3	<69.4	<511	<369	<512	<81.9	<330	<307	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	27,200,000
	12/5/2022	1207	<297	<63.9	<77.6	<62.2	<41.3	<103	1,020	<81.0	<79.3	5,620	1,210	393	<112	<98.10	3,390	8,850	135	434	<511	448	<512	<81.9	<330	17,500	<85.1	<136	<59.0	403	<109	139	1,110	351	<70.4	2,290	295	116,000
		1209	Initiate Vacuum Recovery Event																																			
		1327	<297	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	5,390	551	346	<112	<98.9	1,420	4,940	<98.3	361	<511	<369	<512	<81.9	<330	15,900	<85.1	<136	<59.0	256	<109	191	613	177	<70.4	1,110	157	<82,600
		1427	<297	<62.6	<77.6	<62.2	<41.3	<103	4,480	<81.0	<79.3	6,300	<1,730	21,300	<112	<98.9	4,130	166,000	6,000	<69.4	<511	<369	<512	<81.9	<330	12,800	<85.1	<136	<59.0	<9,420	<109	<107	25,000	8,640	<70.4	<8,670	15,500	<4,130,000
		1427	Vacuum Recovery Event Terminated																																			
		1527	<297	<63.9	<77.6	<62.2	<41.3	<103	6,990	<81.0	<79.3	6,180	352	144	<112	<98.9	17,900	64,200	<98.3	<69.4	<511	858	<512	<81.9	<330	23,200	<85.1	<136	<59.0	<188	<109	<107	409	139	<70.4	720	114	421,000
	12/9/2022	1241	<2,970	<639	<776	<622	<413	<1,030	162,000	<810	<793	9,370	<867	<982	<1,112	<989	265,000	3,110,000	<983	<694	<5,110	7,110	<5,120	<819	<3,300	19,100	<851	<1,360	<590	<1,880	<1,090	<1,070	<982	<982	<704	<1,730	<867	7,640,000
	12/15/2022	1228	20,600	<1,280	<1,550	<1,240	<826	<2,060	321,000	<1,620	<1,590	7,960	<1,730	<1,960	<2,250	<1,980	634,000	4,790,000	<1,970	<1,390	<10,200	12,200	<10,200	<1,640	<6,600	13,900	<1,700	<2,720	<1,180	<3,770	<2,180	<2,140	<1,960	<1,960	<1,410	<3,470	<1,730	16,300,000
	12/19/2022	1141	<1,490	<319	<388	<311	<207	<515	158,000	<405	<396	6,390	<434	<491	<562	<495	305,000	2,420,000	<492	941	<2,560	10,200	<2,560	<409	<1,650	7,010	<425	<679	<295	<942	<544	<536	<491	<491	<352	<867	<434	8,880,000
		1143	Initiate Vacuum Recovery Event																																			
		1538	105	<12.8	<15.5	<12.4	<8.26	<20.6	1,210	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	3,310	7,510	<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	75,200
		1638	<59.4	<12.8	<15.5	<12.4	<8.26	<20.6	596	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	1,170	3,910	<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	34,000
		1638	Vacuum Recovery Event Terminated																																			
		1738	<59.4	<12.8	<15.5	<12.4	29.9	<20.6	3,550	<16.2	<15.9	<47.1	<17.3	<19.6	<22.5	<19.8	6,130	21,200	<19.7	<13.9	<102	105	<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	138,000
	12/21/2022	1318	<297	<63.9	<77.6	<62.2	<41.3	<103	88,200	<81.0	<79.3	6,980	<86.7	<98.2	<112	<98.9	195,000	2,290,000	<98.3	190	<511	4,810	<512	<81.9	<330	9,000	<85.1	<136	<59.0	302	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	2,240,000
	12/29/2022	1320	19,000	<63.9	<77.6	<62.2	<41.3	<103	93,300	<81.0	<79.3	6,280	<86.7	<98.2	<112	<98.9	181,000	1,310,000	<98.3	<69.4	<511	10,200	<512	<81.9	<330	11,000	<85.1	<136	<59.0	304	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	9,750,000
	1/4/2023	1218	<297	<63.9	<77.6	124	<41.3	<103	26,500	<81.0	<79.3	2,750	<86.7	<98.2	<112	<98.9	38,900	765,000	<98.3	76.4	<511	4,250	<512	<81.9	<330	4,820	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	1,170,000
	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	&																

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	3/15/2023	1100	<297	859	<77.6	1,400	<41.3	<103	25,200	<81.0	<79.3	1,510	23,900	1,330	<112	<98.9	21,600	41,200	3,060	116	<511	<369	<512	1,060	<330	3,690	<85.1	<136	<59.0	21,700	<109	<107	1,920	849	<70.4	17,500	7,720	946,000
	3/20/203	1023	1,550	319	<77.6	632	<41.3	<103	12,600	<81.0	<79.3	2,390	10,500	366	<112	<98.9	11,500	58,200	1,060	<69.4	<511	<369	<512	<81.9	<330	4,550	<85.1	<136	<59.0	10,100	<109	<107	362	190	<70.4	6,500	2,640	690,000
		1024	Initiate Vacuum Recovery Event																																			
		1132	2,730	119	<77.6	<62.2	<41.3	<103	3,820	<81.0	<79.3	3,750	2,150	<98.2	<112	<98.9	3,430	12,900	236	<69.4	<511	<369	<512	<81.9	<330	5,160	<85.1	<136	<59.0	2,540	<109	<107	124	<98.2	<70.4	1,530	555	184,000
		1240	1,550	<63.9	<77.6	<62.2	<41.3	<103	613	<81.0	<79.3	7,860	707	<98.2	<112	<98.9	589	2,860	160	365	<511	<369	<512	<81.9	<330	3,150	<85.1	<136	<59.0	689	<109	<107	98.7	<98.2	<70.4	754	283	<82,600
		1240	Vacuum Recovery Event Terminated																																			
		1342	2,010	<63.9	<77.6	<62.2	42.5	<103	4,240	<81.0	<79.3	10,600	4,200	108	<112	<98.9	4,790	15,700	425	469	<511	<369	<512	<81.9	<330	6,960	<85.1	<136	<59.0	4,260	<109	<107	166	<98.2	<70.4	3,180	1,150	280,000
	3/23/2023	1259	1,290	<63.9	<77.6	1,040	<41.3	<103	21,800	<81.0	<79.3	1,310	18,300	3,370	<112	<98.9	<81.8	99,400	2,630	<69.4	<511	<369	<512	<81.9	<330	3,270	<85.1	<136	<59.0	9,790	<109	<107	1,210	658	<70.4	13,400	5,900	1,160,000
	3/29/2023	1223	<297	<63.9	<77.6	651	<41.3	<103	39,600	<81.0	<79.3	2,750	8,930	1,620	<112	<98.9	25,500	255,000	1,430	<69.4	<511	377	<512	<81.9	<330	48,400	<85.1	<136	<59.0	3,610	<109	<107	515	322	<70.4	7,110	3,240	983,000
	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																																			
		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
	4/14/2023	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																																			
		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
	4/26/2023	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																																			
		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
	5/2/2023	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	<8																										

TABLE 4
AIR SAMPLING (VOCs) ANALYTICAL DATA SUMMARY
Levey Well
Oxy Permian Ltd.
Hobbs, New Mexico
Ensolum Project No. 03B1417001

Sample Designation	Date	Time	(ug/m3)																																				
			Acetone	Benzene	Bromomethane	Carbon disulfide	Chloromethane	2-Chlorotoluene	Cyclohexane	1,2-Dichloroethane	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	Trichlorofluoromethane	Dichlorodifluoromethane	Heptane	n-Hexane	Isopropylbenzene	Methylene Chloride	Methyl Butyl Ketone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Methyl methacrylate	Naphthalene	2-Propanol	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m&p-Xylene	o-Xylene	TPH (GC/MS) Low Fraction	
Levey Well	8/14/2023	0852	6,890	<63.9	<77.6	420	<41.3	<103	27,900	<81.0	<79.3	1,920	103	<98.2	<112	<98.9	20,100	260,000	<98.3	<69.4	<511	2,920	<512	<81.9	<330	8,230	<85.1	<136	<59.0	189	<109	<107	321	182	<70.4	427	242	711,000	
		0853	Initiate Vacuum Recovery Event																																				
		0959	<297	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	2,220	87.6	<98.2	<112	<98.9	421	2,920	<98.3	160	<511	<369	<512	<81.9	<330	7,520	<85.1	<136	<59.0	234	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600	
		1114	<297	85.3	<77.6	<62.2	<41.3	<103	520	<81.0	<79.3	2,090	90.2	<98.2	<112	<98.9	379	5,180	<98.3	171	<511	<369	<512	<81.9	<330	14,700	<85.1	<136	<59.0	199	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600	
		1114	Vacuum Recovery Event Terminated																																				
	8/23/2023	1213	4,920	<63.9	<77.6	<62.2	<41.3	<103	<68.9	<81.0	<79.3	6,660	<86.7	<98.2	<112	<98.9	182	2,740	<98.3	892	<511	<369	<512	<81.9	<330	17,900	<85.1	<136	<59.0	<188	<109	<107	<98.2	<98.2	<70.4	<173	<86.7	<82,600	
		1223	<594	<128	<155	236	<82.6	<20.6	39,900	<162	<159	1,530	163	458	<225	<198	17,400	76,200	<19.7	<139	<1,020	<737	<1,020	<164	<66.0	1,020	<17.0	<272	<118	<377	<218	<214	268	199	<141	499	366	657,000	
		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																																					
	9/25/2023	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	
		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																																					
	10/2/2023	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	
		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																																					
10/17/2023	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		
	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																																					
10/31/2023	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		
	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	<9																					



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 1/8/2024 5:28:39 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-37406-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

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

Laboratory Job ID: 880-37406-1
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: 880-37406-1
SDG: Hobbs NM

Qualifiers

GC/MS 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.

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.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	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)

Definitions/Glossary

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

Job ID: 880-37406-1
SDG: Hobbs NM

Glossary (Continued)

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

- 1
- 2
- 3
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Case Narrative

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

Job ID: 880-37406-1

Job ID: 880-37406-1

Eurofins Midland

Job Narrative 880-37406-1

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 1/2/2024 3:48 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 1.6°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-139047 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-139047 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-139180 and analytical batch 860-139301 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 (880-37406-1). 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.

Eurofins Midland

Client Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-37406-1

Date Collected: 01/02/24 13:15

Matrix: Water

Date Received: 01/02/24 15:48

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00196		0.00100	0.000460	mg/L		01/04/24 12:22	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/04/24 12:22	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/04/24 12:22	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/04/24 12:22	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/04/24 12:22	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/04/24 12:22	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/04/24 12:22	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/04/24 12:22	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/04/24 12:22	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/04/24 12:22	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/04/24 12:22	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/04/24 12:22	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/04/24 12:22	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/04/24 12:22	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/04/24 12:22	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/04/24 12:22	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/04/24 12:22	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/04/24 12:22	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/04/24 12:22	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/04/24 12:22	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/04/24 12:22	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/04/24 12:22	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/04/24 12:22	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/04/24 12:22	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/04/24 12:22	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/04/24 12:22	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/04/24 12:22	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/04/24 12:22	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/04/24 12:22	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/04/24 12:22	1
Ethylbenzene	0.00617		0.00100	0.000385	mg/L		01/04/24 12:22	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/04/24 12:22	1
Isopropylbenzene	0.00371		0.00100	0.000592	mg/L		01/04/24 12:22	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		01/04/24 12:22	1
m,p-Xylenes	0.0299		0.0100	0.00124	mg/L		01/04/24 12:22	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/04/24 12:22	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/04/24 12:22	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/04/24 12:22	1
N-Propylbenzene	0.00189		0.00100	0.000429	mg/L		01/04/24 12:22	1
o-Xylene	0.00468		0.00100	0.000502	mg/L		01/04/24 12:22	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/04/24 12:22	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/04/24 12:22	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/04/24 12:22	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/04/24 12:22	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/04/24 12:22	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/04/24 12:22	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/04/24 12:22	1
Toluene	0.0117		0.00100	0.000475	mg/L		01/04/24 12:22	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		01/04/24 12:22	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-37406-1
Date Collected: 01/02/24 13:15 Matrix: Water
Date Received: 01/02/24 15:48

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			01/04/24 12:22	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/04/24 12:22	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/04/24 12:22	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/04/24 12:22	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/04/24 12:22	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/04/24 12:22	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/04/24 12:22	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/04/24 12:22	1
1,2,4-Trimethylbenzene	0.00827		0.00100	0.000417 mg/L			01/04/24 12:22	1
1,3,5-Trimethylbenzene	0.00246		0.00100	0.000411 mg/L			01/04/24 12:22	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/04/24 12:22	1
Xylenes, Total	0.0346		0.0100	0.00124 mg/L			01/04/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124				01/04/24 12:22	1
Dibromofluoromethane (Surr)	92		75 - 131				01/04/24 12:22	1
1,2-Dichloroethane-d4 (Surr)	108		63 - 144				01/04/24 12:22	1
Toluene-d8 (Surr)	109		80 - 120				01/04/24 12:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.493	J	0.500	0.0711 mg/L			01/03/24 16:49	1
Nitrate as N	0.144		0.100	0.0391 mg/L			01/03/24 16:49	1
Chloride	246		0.500	0.250 mg/L			01/03/24 16:49	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/03/24 16:49	1
Fluoride	0.774		0.500	0.100 mg/L			01/03/24 16:49	1
Sulfate	25.9		0.500	0.200 mg/L			01/03/24 16:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	209		10.0	5.76 mg/L		01/04/24 10:49	01/04/24 17:53	50
Magnesium	41.4	F1	0.200	0.0428 mg/L		01/04/24 10:49	01/04/24 17:40	1
Potassium	2.81	F1	0.500	0.0914 mg/L		01/04/24 10:49	01/04/24 17:40	1
Sodium	70.3	F1	0.500	0.152 mg/L		01/04/24 10:49	01/04/24 17:40	1
SiO2	64.2	F1	1.07	0.471 mg/L		01/04/24 10:49	01/04/24 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-7.40			%			01/05/24 10:01	1
Alkalinity (SM 2320B)	501		4.00	4.00 mg/L			01/04/24 14:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	501		4.00	4.00 mg/L			01/04/24 14:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/04/24 14:55	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/04/24 14:55	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/04/24 14:55	1
Total Dissolved Solids (SM 2540C)	1190		10.0	10.0 mg/L			01/04/24 13:06	1
pH (SM 4500 H+ B)	7.1	HF		SU			01/04/24 12:51	1
Temperature (SM 4500 H+ B)	14.1	HF		Degrees C			01/04/24 12:51	1

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Surrogate Summary

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

Job ID: 880-37406-1
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)
880-37406-1	Levey Well	106	92	108	109
LCS 860-139100/3	Lab Control Sample	102	98	100	111
LCSD 860-139100/4	Lab Control Sample Dup	102	98	99	110
MB 860-139100/9	Method Blank	107	98	107	110
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: 880-37406-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-139100/9

Matrix: Water

Analysis Batch: 139100

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			01/04/24 10:39	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/04/24 10:39	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/04/24 10:39	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/04/24 10:39	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/04/24 10:39	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/04/24 10:39	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/04/24 10:39	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/04/24 10:39	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/04/24 10:39	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/04/24 10:39	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/04/24 10:39	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/04/24 10:39	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/04/24 10:39	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/04/24 10:39	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/04/24 10:39	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/04/24 10:39	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/04/24 10:39	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/04/24 10:39	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/04/24 10:39	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/04/24 10:39	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/04/24 10:39	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/04/24 10:39	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/04/24 10:39	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/04/24 10:39	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/04/24 10:39	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/04/24 10:39	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/04/24 10:39	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/04/24 10:39	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/04/24 10:39	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/04/24 10:39	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			01/04/24 10:39	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/04/24 10:39	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			01/04/24 10:39	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/04/24 10:39	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			01/04/24 10:39	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/04/24 10:39	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/04/24 10:39	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/04/24 10:39	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			01/04/24 10:39	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			01/04/24 10:39	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			01/04/24 10:39	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/04/24 10:39	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/04/24 10:39	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/04/24 10:39	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/04/24 10:39	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/04/24 10:39	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/04/24 10:39	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			01/04/24 10:39	1

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QC Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-139100/9

Matrix: Water

Analysis Batch: 139100

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		01/04/24 10:39	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		01/04/24 10:39	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		01/04/24 10:39	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		01/04/24 10:39	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		01/04/24 10:39	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		01/04/24 10:39	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		01/04/24 10:39	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		01/04/24 10:39	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		01/04/24 10:39	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		01/04/24 10:39	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		01/04/24 10:39	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		01/04/24 10:39	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		01/04/24 10:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	107		74 - 124		01/04/24 10:39	1
Dibromofluoromethane (Surr)	98		75 - 131		01/04/24 10:39	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		01/04/24 10:39	1
Toluene-d8 (Surr)	110		80 - 120		01/04/24 10:39	1

Lab Sample ID: LCS 860-139100/3

Matrix: Water

Analysis Batch: 139100

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	0.05442		mg/L		109	75 - 125
Bromobenzene	0.0500	0.05871		mg/L		117	75 - 125
Bromochloromethane	0.0500	0.05101		mg/L		102	60 - 140
Bromodichloromethane	0.0500	0.05387		mg/L		108	75 - 125
Bromoform	0.0500	0.06067		mg/L		121	70 - 130
Bromomethane	0.0500	0.04538		mg/L		91	60 - 140
2-Butanone	0.250	0.2400		mg/L		96	60 - 140
Carbon tetrachloride	0.0500	0.05243		mg/L		105	70 - 125
Chlorobenzene	0.0500	0.05748		mg/L		115	82 - 135
Chloroethane	0.0500	0.04405		mg/L		88	60 - 140
Chloroform	0.0500	0.05268		mg/L		105	70 - 121
Chloromethane	0.0500	0.04450		mg/L		89	60 - 140
2-Chlorotoluene	0.0500	0.05778		mg/L		116	73 - 125
4-Chlorotoluene	0.0500	0.05916		mg/L		118	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04954		mg/L		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05335		mg/L		107	74 - 125
Dibromochloromethane	0.0500	0.05933		mg/L		119	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.06021		mg/L		120	59 - 125
1,2-Dibromoethane	0.0500	0.05985		mg/L		120	73 - 125
1,2-Dichlorobenzene	0.0500	0.05948		mg/L		119	75 - 125
1,3-Dichlorobenzene	0.0500	0.05852		mg/L		117	75 - 125
1,4-Dichlorobenzene	0.0500	0.05963		mg/L		119	75 - 125
Dichlorodifluoromethane	0.0500	0.05565		mg/L		111	50 - 150

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QC Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-139100/4

Matrix: Water

Analysis Batch: 139100

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	0.05154		mg/L		103	75 - 125	5	25
Bromobenzene	0.0500	0.05592		mg/L		112	75 - 125	5	25
Bromochloromethane	0.0500	0.05056		mg/L		101	60 - 140	1	25
Bromodichloromethane	0.0500	0.05182		mg/L		104	75 - 125	4	25
Bromoform	0.0500	0.05836		mg/L		117	70 - 130	4	25
Bromomethane	0.0500	0.04612		mg/L		92	60 - 140	2	25
2-Butanone	0.250	0.2370		mg/L		95	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04983		mg/L		100	70 - 125	5	25
Chlorobenzene	0.0500	0.05447		mg/L		109	82 - 135	5	25
Chloroethane	0.0500	0.03857		mg/L		77	60 - 140	13	25
Chloroform	0.0500	0.05080		mg/L		102	70 - 121	4	25
Chloromethane	0.0500	0.04195		mg/L		84	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05412		mg/L		108	73 - 125	7	25
4-Chlorotoluene	0.0500	0.05612		mg/L		112	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.04790		mg/L		96	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.05153		mg/L		103	74 - 125	3	25
Dibromochloromethane	0.0500	0.05712		mg/L		114	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05991		mg/L		120	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.05812		mg/L		116	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05681		mg/L		114	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.05602		mg/L		112	75 - 125	4	25
1,4-Dichlorobenzene	0.0500	0.05666		mg/L		113	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.05307		mg/L		106	50 - 150	5	25
1,1-Dichloroethane	0.0500	0.04901		mg/L		98	71 - 130	5	25
1,2-Dichloroethane	0.0500	0.05399		mg/L		108	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.05245		mg/L		105	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.05064		mg/L		101	74 - 125	6	25
1,3-Dichloropropane	0.0500	0.05546		mg/L		111	75 - 125	4	25
2,2-Dichloropropane	0.0500	0.04913		mg/L		98	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04896		mg/L		98	75 - 125	4	25
Ethylbenzene	0.0500	0.05496		mg/L		110	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.05997		mg/L		120	75 - 125	1	25
Isopropylbenzene	0.0500	0.05617		mg/L		112	75 - 125	5	25
Methylene Chloride	0.0500	0.04979		mg/L		100	71 - 125	1	25
m,p-Xylenes	0.0500	0.05510		mg/L		110	75 - 125	6	25
MTBE	0.0500	0.04952		mg/L		99	65 - 135	0	25
Naphthalene	0.0500	0.05911		mg/L		118	70 - 130	3	25
n-Butylbenzene	0.0500	0.05854		mg/L		117	75 - 125	2	25
N-Propylbenzene	0.0500	0.05458		mg/L		109	75 - 125	6	25
o-Xylene	0.0500	0.05445		mg/L		109	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05743		mg/L		115	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05719		mg/L		114	75 - 125	3	25
Styrene	0.0500	0.05647		mg/L		113	75 - 125	6	25
tert-Butylbenzene	0.0500	0.05593		mg/L		112	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.05581		mg/L		112	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.05652		mg/L		113	74 - 125	3	25
Tetrachloroethene	0.0500	0.05121		mg/L		102	71 - 125	5	25
Toluene	0.0500	0.05569		mg/L		111	75 - 130	6	25

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QC Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-139100/4
Matrix: Water
Analysis Batch: 139100

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
trans-1,2-Dichloroethene	0.0500	0.04949		mg/L		99	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05581		mg/L		112	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05690		mg/L		114	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05625		mg/L		112	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04974		mg/L		99	70 - 130	5	25
1,1,2-Trichloroethane	0.0500	0.05640		mg/L		113	75 - 130	2	25
Trichloroethene	0.0500	0.05269		mg/L		105	75 - 135	5	25
Trichlorofluoromethane	0.0500	0.05270		mg/L		105	60 - 140	4	25
1,2,3-Trichloropropane	0.0500	0.05949		mg/L		119	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.05623		mg/L		112	75 - 125	5	25
1,3,5-Trimethylbenzene	0.0500	0.05698		mg/L		114	60 - 140	4	25
Vinyl chloride	0.0500	0.04684		mg/L		94	60 - 140	6	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	110		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-139047/3
Matrix: Water
Analysis Batch: 139047

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			01/03/24 14:40	1
Chloride	<0.250	U	0.500	0.250 mg/L			01/03/24 14:40	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/03/24 14:40	1
Sulfate	<0.200	U	0.500	0.200 mg/L			01/03/24 14:40	1

Lab Sample ID: LCS 860-139047/4
Matrix: Water
Analysis Batch: 139047

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Bromide	10.0	10.43		mg/L		104	90 - 110
Chloride	10.0	10.50		mg/L		105	90 - 110
Fluoride	10.0	10.60		mg/L		106	90 - 110
Sulfate	10.0	9.419		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-139047/5
Matrix: Water
Analysis Batch: 139047

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Bromide	10.0	10.48		mg/L		105	90 - 110	1	20
Chloride	10.0	10.53		mg/L		105	90 - 110	0	20
Fluoride	10.0	10.65		mg/L		106	90 - 110	0	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-139047/5

Matrix: Water

Analysis Batch: 139047

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	9.475		mg/L		95	90 - 110	1	20

Lab Sample ID: LLCS 860-139047/7

Matrix: Water

Analysis Batch: 139047

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	0.4972	J	mg/L		99	50 - 150
Chloride	0.500	0.5275		mg/L		105	50 - 150
Fluoride	0.500	0.5072		mg/L		101	50 - 150
Sulfate	0.500	0.4733	J	mg/L		95	50 - 150

Lab Sample ID: MB 860-139048/3

Matrix: Water

Analysis Batch: 139048

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			01/03/24 14:40	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/03/24 14:40	1

Lab Sample ID: LCS 860-139048/4

Matrix: Water

Analysis Batch: 139048

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	10.45		mg/L		105	80 - 120
Nitrite as N	10.0	9.686		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-139048/5

Matrix: Water

Analysis Batch: 139048

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	10.50		mg/L		105	80 - 120	0	20
Nitrite as N	10.0	9.813		mg/L		98	80 - 120	1	20

Lab Sample ID: LLCS 860-139048/6

Matrix: Water

Analysis Batch: 139048

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	0.1013		mg/L		101	50 - 150
Nitrite as N	0.100	0.08114	J	mg/L		81	50 - 150

Eurofins Midland

QC Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-139180/1-A

Matrix: Water

Analysis Batch: 139301

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 139180

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		01/04/24 10:49	01/04/24 17:32	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		01/04/24 10:49	01/04/24 17:32	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		01/04/24 10:49	01/04/24 17:32	1
Sodium	<0.152	U	0.500	0.152 mg/L		01/04/24 10:49	01/04/24 17:32	1
SiO2	<0.471	U	1.07	0.471 mg/L		01/04/24 10:49	01/04/24 17:32	1

Lab Sample ID: LCS 860-139180/2-A

Matrix: Water

Analysis Batch: 139301

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 139180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	25.30		mg/L		101	85 - 115
Magnesium	25.0	25.10		mg/L		100	85 - 115
Potassium	10.0	10.30		mg/L		103	85 - 115
Sodium	25.0	26.40		mg/L		106	85 - 115
SiO2	21.4	21.61		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-139180/3-A

Matrix: Water

Analysis Batch: 139301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 139180

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	25.30		mg/L		101	85 - 115	0	20
Magnesium	25.0	25.10		mg/L		100	85 - 115	0	20
Potassium	10.0	10.30		mg/L		103	85 - 115	0	20
Sodium	25.0	26.40		mg/L		106	85 - 115	0	20
SiO2	21.4	21.40		mg/L		100	85 - 115	1	20

Lab Sample ID: LLCS 860-139180/4-A

Matrix: Water

Analysis Batch: 139301

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 139180

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1710	J	mg/L		86	50 - 150
Magnesium	0.200	0.2200		mg/L		110	50 - 150
Potassium	0.500	0.5180		mg/L		104	50 - 150
Sodium	0.500	0.5720		mg/L		114	50 - 150
SiO2	1.07	1.057	J	mg/L		99	50 - 150

Lab Sample ID: 880-37406-1 MS

Matrix: Water

Analysis Batch: 139301

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 139180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	195		25.0	201.0	4	mg/L		24	70 - 130
Magnesium	41.4	F1	25.0	44.60	F1	mg/L		13	70 - 130
Potassium	2.81	F1	10.0	3.900	F1	mg/L		11	70 - 130
Sodium	70.3	F1	25.0	76.20	F1	mg/L		24	70 - 130
SiO2	64.2	F1	21.4	67.62	F1	mg/L		16	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

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

Lab Sample ID: 880-37406-1 MSD

Matrix: Water

Analysis Batch: 139301

Client Sample ID: Levey Well

Prep Type: Total Recoverable

Prep Batch: 139180

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	195		25.0	191.0	4	mg/L		-16	70 - 130	5	20
Magnesium	41.4	F1	25.0	42.30	F1	mg/L		4	70 - 130	5	20
Potassium	2.81	F1	10.0	3.730	F1	mg/L		9	70 - 130	4	20
Sodium	70.3	F1	25.0	72.40	F1	mg/L		8	70 - 130	5	20
SiO2	64.2	F1	21.4	64.20	F1	mg/L		0	70 - 130	5	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-139319/3

Matrix: Water

Analysis Batch: 139319

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			01/04/24 14:27	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/04/24 14:27	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/04/24 14:27	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/04/24 14:27	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/04/24 14:27	1

Lab Sample ID: LCS 860-139319/4

Matrix: Water

Analysis Batch: 139319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Alkalinity	250	264.7		mg/L		106	85 - 115

Lab Sample ID: LCSD 860-139319/5

Matrix: Water

Analysis Batch: 139319

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		
Alkalinity	250	264.9		mg/L		106	85 - 115	0	20

Lab Sample ID: 880-37406-1 DU

Matrix: Water

Analysis Batch: 139319

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity	501		490.0		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	501		490.0		mg/L		2	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-37406-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-139209/1										Client Sample ID: Method Blank	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 139209											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			01/04/24 13:06	1			

Lab Sample ID: LCS 860-139209/2										Client Sample ID: Lab Control Sample	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 139209											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Total Dissolved Solids	1000	995.0		mg/L		100	80 - 120				

Lab Sample ID: LCSD 860-139209/3										Client Sample ID: Lab Control Sample Dup	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 139209											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Total Dissolved Solids	1000	984.0		mg/L		98	80 - 120	1	10		

Lab Sample ID: LLCS 860-139209/4										Client Sample ID: Lab Control Sample	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 139209											
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits				
Total Dissolved Solids	5.00	5.000		mg/L		100	50 - 150				

QC Association Summary

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

Job ID: 880-37406-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 139100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total/NA	Water	8260C	
MB 860-139100/9	Method Blank	Total/NA	Water	8260C	
LCS 860-139100/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-139100/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 139047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total/NA	Water	300.0	
MB 860-139047/3	Method Blank	Total/NA	Water	300.0	
LCS 860-139047/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-139047/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-139047/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 139048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total/NA	Water	300.0	
MB 860-139048/3	Method Blank	Total/NA	Water	300.0	
LCS 860-139048/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-139048/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-139048/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 139180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-139180/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-139180/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-139180/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-139180/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-37406-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-37406-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 139301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	139180
880-37406-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	139180
MB 860-139180/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	139180
LCS 860-139180/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	139180
LCSD 860-139180/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	139180
LLCS 860-139180/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	139180
880-37406-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	139180
880-37406-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	139180

General Chemistry

Analysis Batch: 136687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total/NA	Water	SM 1030E	

Eurofins Midland

QC Association Summary

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

Job ID: 880-37406-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 139209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-139209/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-139209/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-139209/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-139209/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 139216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 139319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37406-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-139319/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-139319/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-139319/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-37406-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-37406-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 01/02/24 13:15
Date Received: 01/02/24 15:48

Lab Sample ID: 880-37406-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	139100	NA	EET HOU	01/04/24 12:22
Total/NA	Analysis	300.0		1	139047	AK1	EET HOU	01/03/24 16:49
Total/NA	Analysis	300.0		1	139048	AK1	EET HOU	01/03/24 16:49
Total Recoverable	Prep	200.7			139180	PB	EET HOU	01/04/24 10:49
Total Recoverable	Analysis	200.7 Rev 4.4		1	139301	JDM	EET HOU	01/04/24 17:40
Total Recoverable	Prep	200.7			139180	PB	EET HOU	01/04/24 10:49
Total Recoverable	Analysis	200.7 Rev 4.4		50	139301	JDM	EET HOU	01/04/24 17:53
Total/NA	Analysis	SM 1030E		1	136687	MC	EET HOU	01/05/24 10:01
Total/NA	Analysis	SM 2320B		1	139319	KEG	EET HOU	01/04/24 14:55
Total/NA	Analysis	SM 2540C		1	139209	SA	EET HOU	01/04/24 13:06
Total/NA	Analysis	SM 4500 H+ B		1	139216	KEG	EET HOU	01/04/24 12:51

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: 880-37406-1
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: 880-37406-1
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: 880-37406-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37406-1	Levey Well	Water	01/02/24 13:15	01/02/24 15:48

- 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)585-3443 Lubbock TX (806)794-1296
Phoenix, AZ (480-335-0900) Atlanta GA (770-448-8800) Tampa FL (813) 281-1111
Hobbs NM (575-392-7550)

Chain of Custody



880-37406 Chain of Custody

www.xenco.com

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

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

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-37406-1

SDG Number: Hobbs NM

Login Number: 37406

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: 880-37406-1
SDG Number: Hobbs NM

Login Number: 37406
List Number: 2
Creator: Jimenez, Nicanor

List Source: Eurofins Houston
List Creation: 01/03/24 03:24 PM

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/17/2024 1:28:33 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-37791-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

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

Laboratory Job ID: 880-37791-1
SDG: Hobbs NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
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: 880-37791-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-37791-1

Job ID: 880-37791-1

Eurofins Midland

Job Narrative 880-37791-1

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 1/10/2024 3:48 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC/MS VOA

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

HPLC/IC

Method 300_ORGFM_28D: The instrument blank for analytical batch 860-140245 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-140245 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 Sulfate the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-140245 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 860-140246 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

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

Metals

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

General Chemistry

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

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Client Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-37791-1

Date Collected: 01/10/24 12:10

Matrix: Water

Date Received: 01/10/24 15:48

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00471		0.00100	0.000460	mg/L		01/11/24 19:45	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/11/24 19:45	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/11/24 19:45	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/11/24 19:45	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/11/24 19:45	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/11/24 19:45	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/11/24 19:45	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/11/24 19:45	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/11/24 19:45	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/11/24 19:45	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/11/24 19:45	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/11/24 19:45	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/11/24 19:45	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/11/24 19:45	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/11/24 19:45	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/11/24 19:45	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/11/24 19:45	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/11/24 19:45	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/11/24 19:45	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/11/24 19:45	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/11/24 19:45	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/11/24 19:45	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/11/24 19:45	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/11/24 19:45	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/11/24 19:45	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/11/24 19:45	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/11/24 19:45	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/11/24 19:45	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/11/24 19:45	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/11/24 19:45	1
Ethylbenzene	0.0166		0.00100	0.000385	mg/L		01/11/24 19:45	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/11/24 19:45	1
Isopropylbenzene	0.00801		0.00100	0.000592	mg/L		01/11/24 19:45	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		01/11/24 19:45	1
m,p-Xylenes	0.0696		0.0100	0.00124	mg/L		01/11/24 19:45	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/11/24 19:45	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/11/24 19:45	1
n-Butylbenzene	0.000839	J	0.00100	0.000510	mg/L		01/11/24 19:45	1
N-Propylbenzene	0.00368		0.00100	0.000429	mg/L		01/11/24 19:45	1
o-Xylene	0.0104		0.00100	0.000502	mg/L		01/11/24 19:45	1
p-Cymene (p-Isopropyltoluene)	0.000883	J	0.00100	0.000676	mg/L		01/11/24 19:45	1
sec-Butylbenzene	0.00148		0.00100	0.000468	mg/L		01/11/24 19:45	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/11/24 19:45	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/11/24 19:45	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/11/24 19:45	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/11/24 19:45	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/11/24 19:45	1
Toluene	0.0318		0.00100	0.000475	mg/L		01/11/24 19:45	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		01/11/24 19:45	1

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Client Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-37791-1
Date Collected: 01/10/24 12:10 Matrix: Water
Date Received: 01/10/24 15:48

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			01/11/24 19:45	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/11/24 19:45	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/11/24 19:45	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/11/24 19:45	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/11/24 19:45	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/11/24 19:45	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/11/24 19:45	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/11/24 19:45	1
1,2,4-Trimethylbenzene	0.0148		0.00100	0.000417 mg/L			01/11/24 19:45	1
1,3,5-Trimethylbenzene	0.00497		0.00100	0.000411 mg/L			01/11/24 19:45	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/11/24 19:45	1
Xylenes, Total	0.0800		0.0100	0.00124 mg/L			01/11/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124				01/11/24 19:45	1
Dibromofluoromethane (Surr)	90		75 - 131				01/11/24 19:45	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144				01/11/24 19:45	1
Toluene-d8 (Surr)	98		80 - 120				01/11/24 19:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.497	J	0.500	0.0711 mg/L			01/12/24 03:16	1
Nitrate as N	0.124		0.100	0.0391 mg/L			01/12/24 03:16	1
Chloride	268		0.500	0.250 mg/L			01/12/24 03:16	1
Nitrite as N	0.548		0.100	0.0293 mg/L			01/12/24 03:16	1
Fluoride	0.238	J	0.500	0.100 mg/L			01/12/24 03:16	1
Sulfate	50.1		0.500	0.200 mg/L			01/12/24 03:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	377		10.0	5.76 mg/L		01/12/24 10:00	01/12/24 23:33	50
Magnesium	68.8		0.200	0.0428 mg/L		01/12/24 10:00	01/12/24 23:15	1
Potassium	6.32		0.500	0.0914 mg/L		01/12/24 10:00	01/12/24 23:15	1
Sodium	124		0.500	0.152 mg/L		01/12/24 10:00	01/12/24 23:15	1
SiO2	67.6		1.07	0.471 mg/L		01/12/24 10:00	01/12/24 23:15	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-9.12			%			01/15/24 10:01	1
Alkalinity (SM 2320B)	1110		4.00	4.00 mg/L			01/12/24 13:51	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1110		4.00	4.00 mg/L			01/12/24 13:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/12/24 13:51	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/12/24 13:51	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/12/24 13:51	1
Total Dissolved Solids (SM 2540C)	1680		20.0	20.0 mg/L			01/12/24 11:54	1
pH (SM 4500 H+ B)	6.3	HF		SU			01/12/24 13:03	1
Temperature (SM 4500 H+ B)	16.4	HF		Degrees C			01/12/24 13:03	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-37791-1
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)
880-37791-1	Levey Well	103	90	106	98
LCS 860-140248/3	Lab Control Sample	102	101	97	100
LCSD 860-140248/4	Lab Control Sample Dup	100	100	94	100
MB 860-140248/10	Method Blank	106	99	101	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-140248/10

Matrix: Water

Analysis Batch: 140248

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			01/11/24 18:03	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/11/24 18:03	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/11/24 18:03	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/11/24 18:03	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/11/24 18:03	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/11/24 18:03	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/11/24 18:03	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/11/24 18:03	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/11/24 18:03	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/11/24 18:03	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/11/24 18:03	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/11/24 18:03	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/11/24 18:03	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/11/24 18:03	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/11/24 18:03	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/11/24 18:03	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/11/24 18:03	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/11/24 18:03	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/11/24 18:03	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/11/24 18:03	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/11/24 18:03	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/11/24 18:03	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/11/24 18:03	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/11/24 18:03	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/11/24 18:03	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/11/24 18:03	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/11/24 18:03	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/11/24 18:03	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/11/24 18:03	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/11/24 18:03	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			01/11/24 18:03	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/11/24 18:03	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			01/11/24 18:03	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/11/24 18:03	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			01/11/24 18:03	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/11/24 18:03	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/11/24 18:03	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/11/24 18:03	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			01/11/24 18:03	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			01/11/24 18:03	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			01/11/24 18:03	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/11/24 18:03	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/11/24 18:03	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/11/24 18:03	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/11/24 18:03	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/11/24 18:03	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/11/24 18:03	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			01/11/24 18:03	1

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QC Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-140248/10
Matrix: Water
Analysis Batch: 140248

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		01/11/24 18:03	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		01/11/24 18:03	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		01/11/24 18:03	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		01/11/24 18:03	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		01/11/24 18:03	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		01/11/24 18:03	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		01/11/24 18:03	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		01/11/24 18:03	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		01/11/24 18:03	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		01/11/24 18:03	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		01/11/24 18:03	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		01/11/24 18:03	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		01/11/24 18:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	106		74 - 124		01/11/24 18:03	1
Dibromofluoromethane (Surr)	99		75 - 131		01/11/24 18:03	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		01/11/24 18:03	1
Toluene-d8 (Surr)	100		80 - 120		01/11/24 18:03	1

Lab Sample ID: LCS 860-140248/3
Matrix: Water
Analysis Batch: 140248

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	0.05031		mg/L		101	75 - 125
Bromobenzene	0.0500	0.05211		mg/L		104	75 - 125
Bromochloromethane	0.0500	0.04818		mg/L		96	60 - 140
Bromodichloromethane	0.0500	0.05149		mg/L		103	75 - 125
Bromoform	0.0500	0.05050		mg/L		101	70 - 130
Bromomethane	0.0500	0.05294		mg/L		106	60 - 140
2-Butanone	0.250	0.2332		mg/L		93	60 - 140
Carbon tetrachloride	0.0500	0.04995		mg/L		100	70 - 125
Chlorobenzene	0.0500	0.05010		mg/L		100	82 - 135
Chloroethane	0.0500	0.05108		mg/L		102	60 - 140
Chloroform	0.0500	0.05069		mg/L		101	70 - 121
Chloromethane	0.0500	0.04803		mg/L		96	60 - 140
2-Chlorotoluene	0.0500	0.05024		mg/L		100	73 - 125
4-Chlorotoluene	0.0500	0.05102		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04888		mg/L		98	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05147		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.05316		mg/L		106	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04872		mg/L		97	59 - 125
1,2-Dibromoethane	0.0500	0.05267		mg/L		105	73 - 125
1,2-Dichlorobenzene	0.0500	0.05190		mg/L		104	75 - 125
1,3-Dichlorobenzene	0.0500	0.05209		mg/L		104	75 - 125
1,4-Dichlorobenzene	0.0500	0.05176		mg/L		104	75 - 125
Dichlorodifluoromethane	0.0500	0.05106		mg/L		102	50 - 150

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QC Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-140248/4

Matrix: Water

Analysis Batch: 140248

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	0.05381		mg/L		108	75 - 125	7	25
Bromobenzene	0.0500	0.05449		mg/L		109	75 - 125	4	25
Bromochloromethane	0.0500	0.04944		mg/L		99	60 - 140	3	25
Bromodichloromethane	0.0500	0.05413		mg/L		108	75 - 125	5	25
Bromoform	0.0500	0.05147		mg/L		103	70 - 130	2	25
Bromomethane	0.0500	0.05349		mg/L		107	60 - 140	1	25
2-Butanone	0.250	0.2305		mg/L		92	60 - 140	1	25
Carbon tetrachloride	0.0500	0.05436		mg/L		109	70 - 125	8	25
Chlorobenzene	0.0500	0.05270		mg/L		105	82 - 135	5	25
Chloroethane	0.0500	0.05220		mg/L		104	60 - 140	2	25
Chloroform	0.0500	0.05385		mg/L		108	70 - 121	6	25
Chloromethane	0.0500	0.04849		mg/L		97	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05328		mg/L		107	73 - 125	6	25
4-Chlorotoluene	0.0500	0.05289		mg/L		106	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05199		mg/L		104	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.05385		mg/L		108	74 - 125	5	25
Dibromochloromethane	0.0500	0.05497		mg/L		110	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04767		mg/L		95	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.05439		mg/L		109	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05322		mg/L		106	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05367		mg/L		107	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.05325		mg/L		106	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.05346		mg/L		107	50 - 150	5	25
1,1-Dichloroethane	0.0500	0.05431		mg/L		109	71 - 130	7	25
1,2-Dichloroethane	0.0500	0.05367		mg/L		107	72 - 130	4	25
1,1-Dichloroethene	0.0500	0.05226		mg/L		105	50 - 150	9	25
1,2-Dichloropropane	0.0500	0.05031		mg/L		101	74 - 125	6	25
1,3-Dichloropropane	0.0500	0.05217		mg/L		104	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05421		mg/L		108	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05371		mg/L		107	75 - 125	6	25
Ethylbenzene	0.0500	0.05417		mg/L		108	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.05255		mg/L		105	75 - 125	3	25
Isopropylbenzene	0.0500	0.05509		mg/L		110	75 - 125	7	25
Methylene Chloride	0.0500	0.04557		mg/L		91	71 - 125	6	25
m,p-Xylenes	0.0500	0.05440		mg/L		109	75 - 125	5	25
MTBE	0.0500	0.04667		mg/L		93	65 - 135	3	25
Naphthalene	0.0500	0.05130		mg/L		103	70 - 130	0	25
n-Butylbenzene	0.0500	0.05329		mg/L		107	75 - 125	2	25
N-Propylbenzene	0.0500	0.05300		mg/L		106	75 - 125	6	25
o-Xylene	0.0500	0.05359		mg/L		107	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05468		mg/L		109	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05384		mg/L		108	75 - 125	4	25
Styrene	0.0500	0.05523		mg/L		110	75 - 125	5	25
tert-Butylbenzene	0.0500	0.05247		mg/L		105	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.05596		mg/L		112	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.04981		mg/L		100	74 - 125	1	25
Tetrachloroethene	0.0500	0.05714		mg/L		114	71 - 125	7	25
Toluene	0.0500	0.05290		mg/L		106	75 - 130	6	25

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QC Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-140248/4				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 140248											
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
trans-1,2-Dichloroethene			0.0500	0.05189		mg/L		104	75 - 125	7	25
trans-1,3-Dichloropropene			0.0500	0.05425		mg/L		109	66 - 125	4	25
1,2,3-Trichlorobenzene			0.0500	0.05264		mg/L		105	75 - 137	1	25
1,2,4-Trichlorobenzene			0.0500	0.05237		mg/L		105	75 - 135	1	25
1,1,1-Trichloroethane			0.0500	0.05613		mg/L		112	70 - 130	7	25
1,1,2-Trichloroethane			0.0500	0.05396		mg/L		108	75 - 130	3	25
Trichloroethene			0.0500	0.05132		mg/L		103	75 - 135	7	25
Trichlorofluoromethane			0.0500	0.05253		mg/L		105	60 - 140	6	25
1,2,3-Trichloropropane			0.0500	0.04907		mg/L		98	75 - 125	2	25
1,2,4-Trimethylbenzene			0.0500	0.05269		mg/L		105	75 - 125	3	25
1,3,5-Trimethylbenzene			0.0500	0.05426		mg/L		109	60 - 140	3	25
Vinyl chloride			0.0500	0.05235		mg/L		105	60 - 140	2	25
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		74 - 124								
Dibromofluoromethane (Surr)	100		75 - 131								
1,2-Dichloroethane-d4 (Surr)	94		63 - 144								
Toluene-d8 (Surr)	100		80 - 120								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-140245/13						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 140245									
	MB	MB							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711	mg/L			01/11/24 16:43	1
Chloride	<0.250	U	0.500	0.250	mg/L			01/11/24 16:43	1
Fluoride	<0.100	U	0.500	0.100	mg/L			01/11/24 16:43	1
Sulfate	<0.200	U	0.500	0.200	mg/L			01/11/24 16:43	1

Lab Sample ID: LCS 860-140245/14				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 140245							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.00	4.797		mg/L		96	90 - 110
Chloride	5.00	4.960		mg/L		99	90 - 110
Fluoride	5.00	5.291		mg/L		106	90 - 110
Sulfate	5.00	4.930		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-140245/15							Client Sample ID: Lab Control Sample Dup				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 140245											
	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limits	
Bromide	5.00	4.794		mg/L		96		90 - 110	0	20	
Chloride	5.00	4.954		mg/L		99		90 - 110	0	20	
Fluoride	5.00	5.289		mg/L		106		90 - 110	0	20	

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QC Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-140245/15

Matrix: Water

Analysis Batch: 140245

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	5.00	4.925		mg/L		98	90 - 110	0	20

Lab Sample ID: LLCS 860-140245/17

Matrix: Water

Analysis Batch: 140245

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	0.5323		mg/L		106	50 - 150		
Chloride	0.500	0.5039		mg/L		101	50 - 150		
Fluoride	0.500	0.4869	J	mg/L		97	50 - 150		
Sulfate	0.500	0.4895	J	mg/L		98	50 - 150		

Lab Sample ID: MB 860-140246/13

Matrix: Water

Analysis Batch: 140246

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			01/11/24 16:43	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/11/24 16:43	1

Lab Sample ID: LCS 860-140246/14

Matrix: Water

Analysis Batch: 140246

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	5.00	4.969		mg/L		99	80 - 120		
Nitrite as N	5.00	5.094		mg/L		102	80 - 120		

Lab Sample ID: LCSD 860-140246/15

Matrix: Water

Analysis Batch: 140246

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	5.00	4.966		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	5.092		mg/L		102	80 - 120	0	20

Lab Sample ID: LLCS 860-140246/16

Matrix: Water

Analysis Batch: 140246

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	0.1095		mg/L		109	50 - 150		
Nitrite as N	0.100	0.07780	J	mg/L		78	50 - 150		

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QC Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-140372/1-A
Matrix: Water
Analysis Batch: 140600

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 140372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.115	U	0.200	0.115 mg/L		01/12/24 10:00	01/12/24 22:46	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		01/12/24 10:00	01/12/24 22:46	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		01/12/24 10:00	01/12/24 22:46	1
Sodium	<0.152	U	0.500	0.152 mg/L		01/12/24 10:00	01/12/24 22:46	1
SiO2	<0.471	U	1.07	0.471 mg/L		01/12/24 10:00	01/12/24 22:46	1

Lab Sample ID: LCS 860-140372/2-A
Matrix: Water
Analysis Batch: 140600

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 140372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.50		mg/L		98	85 - 115
Magnesium	25.0	24.50		mg/L		98	85 - 115
Potassium	10.0	9.900		mg/L		99	85 - 115
Sodium	25.0	25.00		mg/L		100	85 - 115
SiO2	21.4	20.82		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-140372/3-A
Matrix: Water
Analysis Batch: 140600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 140372

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.50		mg/L		98	85 - 115	0	20
Magnesium	25.0	24.50		mg/L		98	85 - 115	0	20
Potassium	10.0	9.880		mg/L		99	85 - 115	0	20
Sodium	25.0	25.00		mg/L		100	85 - 115	0	20
SiO2	21.4	20.91		mg/L		98	85 - 115	0	20

Lab Sample ID: LLCS 860-140372/4-A
Matrix: Water
Analysis Batch: 140600

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 140372

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.1740	J	mg/L		87	50 - 150
Magnesium	0.200	0.2140		mg/L		107	50 - 150
Potassium	0.500	0.5660		mg/L		113	50 - 150
Sodium	0.500	0.5840		mg/L		117	50 - 150
SiO2	1.07	1.083		mg/L		101	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-140478/3
Matrix: Water
Analysis Batch: 140478

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			01/12/24 10:32	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/12/24 10:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/12/24 10:32	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/12/24 10:32	1

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QC Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-140478/3

Matrix: Water

Analysis Batch: 140478

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			01/12/24 10:32	1

Lab Sample ID: LCS 860-140478/4

Matrix: Water

Analysis Batch: 140478

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	251.9		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-140478/5

Matrix: Water

Analysis Batch: 140478

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	253.5		mg/L		101	85 - 115	1	20

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

Lab Sample ID: MB 860-140181/1

Matrix: Water

Analysis Batch: 140181

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			01/11/24 10:09	1

Lab Sample ID: LCS 860-140181/2

Matrix: Water

Analysis Batch: 140181

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	1110		mg/L		111	80 - 120

Lab Sample ID: LCSD 860-140181/3

Matrix: Water

Analysis Batch: 140181

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	1110		mg/L		111	80 - 120	0	10

Lab Sample ID: LLCS 860-140181/21

Matrix: Water

Analysis Batch: 140181

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	7.000		mg/L		140	50 - 150

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QC Sample Results

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

Job ID: 880-37791-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-140481/1

Matrix: Water

Analysis Batch: 140481

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			01/12/24 16:10	1

Lab Sample ID: LCS 860-140481/2

Matrix: Water

Analysis Batch: 140481

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	1110		mg/L		111	80 - 120

Lab Sample ID: LCSD 860-140481/3

Matrix: Water

Analysis Batch: 140481

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	1110		mg/L		111	80 - 120	0	10

Lab Sample ID: LLCS 860-140481/17

Matrix: Water

Analysis Batch: 140481

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	7.000		mg/L		140	50 - 150

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-37791-1 DU

Matrix: Water

Analysis Batch: 140432

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	6.2		SU		0.6	20
Temperature	16.4	HF	16.3		Degrees C		0.6	20

QC Association Summary

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

Job ID: 880-37791-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 140248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total/NA	Water	8260C	
MB 860-140248/10	Method Blank	Total/NA	Water	8260C	
LCS 860-140248/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-140248/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 140245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total/NA	Water	300.0	
MB 860-140245/13	Method Blank	Total/NA	Water	300.0	
LCS 860-140245/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-140245/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-140245/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 140246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total/NA	Water	300.0	
MB 860-140246/13	Method Blank	Total/NA	Water	300.0	
LCS 860-140246/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-140246/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-140246/16	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 140372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-140372/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-140372/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-140372/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-140372/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 140600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	140372
880-37791-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	140372
MB 860-140372/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	140372
LCS 860-140372/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	140372
LCSD 860-140372/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	140372
LLCS 860-140372/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	140372

General Chemistry

Analysis Batch: 136687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 140181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-140181/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 880-37791-1
SDG: Hobbs NM

General Chemistry (Continued)

Analysis Batch: 140181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-140181/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-140181/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-140181/21	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 140432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total/NA	Water	SM 4500 H+ B	
880-37791-1 DU	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 140478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37791-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-140478/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-140478/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-140478/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 140481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-140481/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-140481/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-140481/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-140481/17	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

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

Job ID: 880-37791-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 01/10/24 12:10
Date Received: 01/10/24 15:48

Lab Sample ID: 880-37791-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	140248	NA	EET HOU	01/11/24 19:45
Total/NA	Analysis	300.0		1	140245	RBNS	EET HOU	01/12/24 03:16
Total/NA	Analysis	300.0		1	140246	RBNS	EET HOU	01/12/24 03:16
Total Recoverable	Prep	200.7			140372	MD	EET HOU	01/12/24 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	140600	JDM	EET HOU	01/12/24 23:15
Total Recoverable	Prep	200.7			140372	MD	EET HOU	01/12/24 10:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	140600	JDM	EET HOU	01/12/24 23:33
Total/NA	Analysis	SM 1030E		1	136687	MC	EET HOU	01/15/24 10:01
Total/NA	Analysis	SM 2320B		1	140478	KEG	EET HOU	01/12/24 13:51
Total/NA	Analysis	SM 2540C		1	140181	SA	EET HOU	01/12/24 11:54
Total/NA	Analysis	SM 4500 H+ B		1	140432	KEG	EET HOU	01/12/24 13:03

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: 880-37791-1
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: 880-37791-1
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: 880-37791-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37791-1	Levey Well	Water	01/10/24 12:10	01/10/24 15:48

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Houston TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 508-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 565-3443 Lubbock, TX (806) 994-1296
Phoenix AZ (480) 355-0800 Atlanta GA (770) 445-8800 Tampa FL (813)
Tomball, TX (281) 358-3333

Chain of Custody



880-37791 Chain of Custody

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

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

Project Name:	Levey, Weil	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):	2.2/2.4	Thermometer ID: 748				
Received intact:	☒ Yes	☐ No				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:	1.280	
Sample Custody Seals:	Yes	No	N/A	Total Containers:		

[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
		11/10/29			
					
					

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)				Sampler		Lab PM: Kramer Jessica		Carrier Tracking No(s):		COC No: 880-8867 1	
Client Contact: Shipping/Receiving				Phone:		E-Mail: Jessica.Kramer@et.eurofins.com		State of Origin: New Mexico		Page: Page 1 of 1	
Company: Eurofins Environment Testing South Cent				Address:		Date Requested: 1/12/2024		Accreditations Required (See note): NELAP Texas		Job #: 880-37791 1	
City: 4145 Greenbriar Dr				State Zip: TX, 77477		PO #:		Project Name: Levey Well Hobbs, NM 03B1417001		Project #:	
Phone: 281-240-4200(Tel)				Email:		WO #:		SSOW#:		Preservation Codes:	
Site:				Project #:		SSOW#:		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Ammonia H Ascorbic Acid I Ice J DI Water K EDTA L EDTA Other:		M Hexane N None O AsH3O2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=comp, G=grab, B=stream, J=air)		Matrix (Weigher, Swatch, Overstabil)	
Levey Well (880-37791 1)				1/10/24		12:10 Mountain		Water		Field Filtered Sample (Yes or No)	
										Perform MS/MSD (Yes or No)	
										8260C/8030C (MOD) Full List VOCs	
										200.7/200.7_P TR (MOD) Custom List	
										300_ORGFMS/28D/ Br Cl, F SO4	
										300_ORGFMS/ NO2, NO3	
										SM4500_H+ pH	
										2540C_Calcd/ TDS	
										2320B/ Alkalinity	
										Cation_Anion/ (MOD) Copy Analytes	
										Total Number of containers	
										7	
										Special Instructions/Note:	
										HC0365 2.6 2.6	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-37791-1

SDG Number: Hobbs NM

Login Number: 37791

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: 880-37791-1
SDG Number: Hobbs NM

Login Number: 37791
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 01/11/24 12:43 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.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/23/2024 7:58:36 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-37987-1

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
1/23/2024 7:58:36 PM

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

Client: Ensolum

Laboratory Job ID: 880-37987-1

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

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	27

1

2

3

4

5

6

7

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12

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14

Definitions/Glossary

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

Job ID: 880-37987-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: 880-37987-1
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

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Case Narrative

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

Job ID: 880-37987-1

Job ID: 880-37987-1

Eurofins Midland

Job Narrative 880-37987-1

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 1/15/2024 4:37 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 4.5°C

GC/MS 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 sample was analyzed outside of analytical holding time due to lab error: Levey Well (880-37987-1).

Method 300_ORGFMS: The following sample(s) was received with less than 1 hour remaining on the holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: Levey Well (880-37987-1).

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

Metals

Method 200.7: The method blank for preparation batch 860-141501 and analytical batch 860-141709 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-141501 and analytical batch 860-141709 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 (880-37987-1). 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.

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Client Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-37987-1

Date Collected: 01/15/24 12:40

Matrix: Water

Date Received: 01/15/24 16:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00714		0.00100	0.000460 mg/L			01/17/24 14:25	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/17/24 14:25	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/17/24 14:25	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/17/24 14:25	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/17/24 14:25	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/17/24 14:25	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/17/24 14:25	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/17/24 14:25	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/17/24 14:25	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/17/24 14:25	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/17/24 14:25	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/17/24 14:25	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/17/24 14:25	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/17/24 14:25	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/17/24 14:25	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/17/24 14:25	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/17/24 14:25	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/17/24 14:25	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/17/24 14:25	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/17/24 14:25	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/17/24 14:25	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/17/24 14:25	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/17/24 14:25	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/17/24 14:25	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/17/24 14:25	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/17/24 14:25	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/17/24 14:25	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/17/24 14:25	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/17/24 14:25	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/17/24 14:25	1
Ethylbenzene	0.0253		0.00100	0.000385 mg/L			01/17/24 14:25	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/17/24 14:25	1
Isopropylbenzene	0.0120		0.00100	0.000592 mg/L			01/17/24 14:25	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/17/24 14:25	1
m,p-Xylenes	0.103		0.0100	0.00124 mg/L			01/17/24 14:25	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/17/24 14:25	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/17/24 14:25	1
n-Butylbenzene	0.00112		0.00100	0.000510 mg/L			01/17/24 14:25	1
N-Propylbenzene	0.00447		0.00100	0.000429 mg/L			01/17/24 14:25	1
o-Xylene	0.0174		0.00100	0.000502 mg/L			01/17/24 14:25	1
p-Cymene (p-Isopropyltoluene)	0.00107		0.00100	0.000676 mg/L			01/17/24 14:25	1
sec-Butylbenzene	0.00181		0.00100	0.000468 mg/L			01/17/24 14:25	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/17/24 14:25	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/17/24 14:25	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/17/24 14:25	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/17/24 14:25	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/17/24 14:25	1
Toluene	0.0444		0.00100	0.000475 mg/L			01/17/24 14:25	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			01/17/24 14:25	1

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Client Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 01/15/24 12:40
Date Received: 01/15/24 16:37

Lab Sample ID: 880-37987-1
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			01/17/24 14:25	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			01/17/24 14:25	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			01/17/24 14:25	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			01/17/24 14:25	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			01/17/24 14:25	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			01/17/24 14:25	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			01/17/24 14:25	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			01/17/24 14:25	1
1,2,4-Trimethylbenzene	0.0229		0.00100	0.000417	mg/L			01/17/24 14:25	1
1,3,5-Trimethylbenzene	0.00707		0.00100	0.000411	mg/L			01/17/24 14:25	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			01/17/24 14:25	1
Xylenes, Total	0.120		0.0100	0.00124	mg/L			01/17/24 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 124					01/17/24 14:25	1
Dibromofluoromethane (Surr)	98		75 - 131					01/17/24 14:25	1
1,2-Dichloroethane-d4 (Surr)	120		63 - 144					01/17/24 14:25	1
Toluene-d8 (Surr)	101		80 - 120					01/17/24 14:25	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.540		0.500	0.0711	mg/L			01/18/24 03:35	1
Nitrate as N	0.0931	J H	0.100	0.0391	mg/L			01/18/24 03:35	1
Chloride	307		0.500	0.250	mg/L			01/18/24 03:35	1
Nitrite as N	<0.0293	U H	0.100	0.0293	mg/L			01/18/24 03:35	1
Fluoride	0.815		0.500	0.100	mg/L			01/18/24 03:35	1
Sulfate	36.4		0.500	0.200	mg/L			01/18/24 03:35	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	401	B	10.0	5.76	mg/L		01/21/24 11:00	01/22/24 15:13	50
Magnesium	72.3		0.200	0.0428	mg/L		01/21/24 11:00	01/22/24 14:57	1
Potassium	6.36		0.500	0.0914	mg/L		01/21/24 11:00	01/22/24 14:57	1
Sodium	130		0.500	0.152	mg/L		01/21/24 11:00	01/22/24 14:57	1
SiO2	69.8		1.07	0.471	mg/L		01/21/24 11:00	01/22/24 14:57	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-3.33				%			01/23/24 19:48	1
Alkalinity (SM 2320B)	1110		4.00	4.00	mg/L			01/18/24 20:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1110		4.00	4.00	mg/L			01/18/24 20:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/18/24 20:05	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/18/24 20:05	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/18/24 20:05	1
Total Dissolved Solids (SM 2540C)	1580		20.0	20.0	mg/L			01/19/24 10:07	1
pH (SM 4500 H+ B)	6.2	HF			SU			01/18/24 15:27	1
Temperature (SM 4500 H+ B)	19.4	HF			Celsius			01/18/24 15:27	1

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Surrogate Summary

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

Job ID: 880-37987-1
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)
880-37987-1	Levey Well	91	98	120	101
LCS 860-140905/3	Lab Control Sample	94	94	102	98
LCSD 860-140905/4	Lab Control Sample Dup	97	97	100	98
MB 860-140905/9	Method Blank	97	100	120	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-140905/9

Matrix: Water

Analysis Batch: 140905

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			01/17/24 12:50	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/17/24 12:50	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/17/24 12:50	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/17/24 12:50	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/17/24 12:50	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/17/24 12:50	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/17/24 12:50	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/17/24 12:50	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/17/24 12:50	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/17/24 12:50	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/17/24 12:50	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/17/24 12:50	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/17/24 12:50	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/17/24 12:50	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/17/24 12:50	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/17/24 12:50	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/17/24 12:50	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/17/24 12:50	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/17/24 12:50	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/17/24 12:50	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/17/24 12:50	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/17/24 12:50	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/17/24 12:50	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/17/24 12:50	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/17/24 12:50	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/17/24 12:50	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/17/24 12:50	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/17/24 12:50	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/17/24 12:50	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/17/24 12:50	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			01/17/24 12:50	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/17/24 12:50	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			01/17/24 12:50	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/17/24 12:50	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			01/17/24 12:50	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/17/24 12:50	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/17/24 12:50	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/17/24 12:50	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			01/17/24 12:50	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			01/17/24 12:50	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			01/17/24 12:50	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/17/24 12:50	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/17/24 12:50	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/17/24 12:50	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/17/24 12:50	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/17/24 12:50	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/17/24 12:50	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			01/17/24 12:50	1

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QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-140905/9
Matrix: Water
Analysis Batch: 140905

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		01/17/24 12:50	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		01/17/24 12:50	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		01/17/24 12:50	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		01/17/24 12:50	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		01/17/24 12:50	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		01/17/24 12:50	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		01/17/24 12:50	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		01/17/24 12:50	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		01/17/24 12:50	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		01/17/24 12:50	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		01/17/24 12:50	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		01/17/24 12:50	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		01/17/24 12:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		74 - 124		01/17/24 12:50	1
Dibromofluoromethane (Surr)	100		75 - 131		01/17/24 12:50	1
1,2-Dichloroethane-d4 (Surr)	120		63 - 144		01/17/24 12:50	1
Toluene-d8 (Surr)	101		80 - 120		01/17/24 12:50	1

Lab Sample ID: LCS 860-140905/3
Matrix: Water
Analysis Batch: 140905

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	0.04718		mg/L		94	75 - 125
Bromobenzene	0.0500	0.04726		mg/L		95	75 - 125
Bromochloromethane	0.0500	0.04876		mg/L		98	60 - 140
Bromodichloromethane	0.0500	0.05048		mg/L		101	75 - 125
Bromoform	0.0500	0.05328		mg/L		107	70 - 130
Bromomethane	0.0500	0.04941		mg/L		99	60 - 140
2-Butanone	0.250	0.2064		mg/L		83	60 - 140
Carbon tetrachloride	0.0500	0.04969		mg/L		99	70 - 125
Chlorobenzene	0.0500	0.04791		mg/L		96	82 - 135
Chloroethane	0.0500	0.05659		mg/L		113	60 - 140
Chloroform	0.0500	0.04715		mg/L		94	70 - 121
Chloromethane	0.0500	0.04825		mg/L		97	60 - 140
2-Chlorotoluene	0.0500	0.04666		mg/L		93	73 - 125
4-Chlorotoluene	0.0500	0.04585		mg/L		92	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04355		mg/L		87	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04867		mg/L		97	74 - 125
Dibromochloromethane	0.0500	0.05111		mg/L		102	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04890		mg/L		98	59 - 125
1,2-Dibromoethane	0.0500	0.04689		mg/L		94	73 - 125
1,2-Dichlorobenzene	0.0500	0.04815		mg/L		96	75 - 125
1,3-Dichlorobenzene	0.0500	0.04845		mg/L		97	75 - 125
1,4-Dichlorobenzene	0.0500	0.04734		mg/L		95	75 - 125
Dichlorodifluoromethane	0.0500	0.04430		mg/L		89	50 - 150

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QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-140905/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 140905							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.04359		mg/L		87	71 - 130
1,2-Dichloroethane	0.0500	0.05111		mg/L		102	72 - 130
1,1-Dichloroethene	0.0500	0.04686		mg/L		94	50 - 150
1,2-Dichloropropane	0.0500	0.04547		mg/L		91	74 - 125
1,3-Dichloropropane	0.0500	0.04586		mg/L		92	75 - 125
2,2-Dichloropropane	0.0500	0.04891		mg/L		98	75 - 125
1,1-Dichloropropene	0.0500	0.04487		mg/L		90	75 - 125
Ethylbenzene	0.0500	0.04947		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05454		mg/L		109	75 - 125
Isopropylbenzene	0.0500	0.05188		mg/L		104	75 - 125
Methylene Chloride	0.0500	0.04204		mg/L		84	71 - 125
m,p-Xylenes	0.0500	0.05002		mg/L		100	75 - 125
MTBE	0.0500	0.04792		mg/L		96	65 - 135
Naphthalene	0.0500	0.05198		mg/L		104	70 - 130
n-Butylbenzene	0.0500	0.05059		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.04738		mg/L		95	75 - 125
o-Xylene	0.0500	0.05100		mg/L		102	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05113		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.04893		mg/L		98	75 - 125
Styrene	0.0500	0.05267		mg/L		105	75 - 125
tert-Butylbenzene	0.0500	0.04863		mg/L		97	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05072		mg/L		101	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04337		mg/L		87	74 - 125
Tetrachloroethene	0.0500	0.04787		mg/L		96	71 - 125
Toluene	0.0500	0.04611		mg/L		92	75 - 130
trans-1,2-Dichloroethene	0.0500	0.04547		mg/L		91	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04905		mg/L		98	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05157		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05098		mg/L		102	75 - 135
1,1,1-Trichloroethane	0.0500	0.04920		mg/L		98	70 - 130
1,1,2-Trichloroethane	0.0500	0.04548		mg/L		91	75 - 130
Trichloroethene	0.0500	0.04873		mg/L		97	75 - 135
Trichlorofluoromethane	0.0500	0.05022		mg/L		100	60 - 140
1,2,3-Trichloropropane	0.0500	0.04510		mg/L		90	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04882		mg/L		98	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04851		mg/L		97	60 - 140
Vinyl chloride	0.0500	0.04647		mg/L		93	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	94		74 - 124				
Dibromofluoromethane (Surr)	94		75 - 131				
1,2-Dichloroethane-d4 (Surr)	102		63 - 144				
Toluene-d8 (Surr)	98		80 - 120				

QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-140905/4

Matrix: Water

Analysis Batch: 140905

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	0.04453		mg/L		89	75 - 125	6	25
Bromobenzene	0.0500	0.04297		mg/L		86	75 - 125	9	25
Bromochloromethane	0.0500	0.04545		mg/L		91	60 - 140	7	25
Bromodichloromethane	0.0500	0.04877		mg/L		98	75 - 125	3	25
Bromoform	0.0500	0.04803		mg/L		96	70 - 130	10	25
Bromomethane	0.0500	0.04124		mg/L		82	60 - 140	18	25
2-Butanone	0.250	0.2027		mg/L		81	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04678		mg/L		94	70 - 125	6	25
Chlorobenzene	0.0500	0.04365		mg/L		87	82 - 135	9	25
Chloroethane	0.0500	0.04383		mg/L		88	60 - 140	25	25
Chloroform	0.0500	0.04461		mg/L		89	70 - 121	6	25
Chloromethane	0.0500	0.04211		mg/L		84	60 - 140	14	25
2-Chlorotoluene	0.0500	0.04404		mg/L		88	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04414		mg/L		88	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04122		mg/L		82	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.04852		mg/L		97	74 - 125	0	25
Dibromochloromethane	0.0500	0.04837		mg/L		97	73 - 125	6	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04355		mg/L		87	59 - 125	12	25
1,2-Dibromoethane	0.0500	0.04561		mg/L		91	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.04392		mg/L		88	75 - 125	9	25
1,3-Dichlorobenzene	0.0500	0.04484		mg/L		90	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.04420		mg/L		88	75 - 125	7	25
Dichlorodifluoromethane	0.0500	0.03906		mg/L		78	50 - 150	13	25
1,1-Dichloroethane	0.0500	0.04010		mg/L		80	71 - 130	8	25
1,2-Dichloroethane	0.0500	0.04983		mg/L		100	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.03682		mg/L		74	50 - 150	24	25
1,2-Dichloropropane	0.0500	0.04883		mg/L		98	74 - 125	7	25
1,3-Dichloropropane	0.0500	0.04656		mg/L		93	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.04326		mg/L		87	75 - 125	12	25
1,1-Dichloropropene	0.0500	0.04301		mg/L		86	75 - 125	4	25
Ethylbenzene	0.0500	0.04562		mg/L		91	75 - 125	8	25
Hexachlorobutadiene	0.0500	0.04690		mg/L		94	75 - 125	15	25
Isopropylbenzene	0.0500	0.04623		mg/L		92	75 - 125	12	25
Methylene Chloride	0.0500	0.03777		mg/L		76	71 - 125	11	25
m,p-Xylenes	0.0500	0.04549		mg/L		91	75 - 125	9	25
MTBE	0.0500	0.04500		mg/L		90	65 - 135	6	25
Naphthalene	0.0500	0.04847		mg/L		97	70 - 130	7	25
n-Butylbenzene	0.0500	0.04630		mg/L		93	75 - 125	9	25
N-Propylbenzene	0.0500	0.04448		mg/L		89	75 - 125	6	25
o-Xylene	0.0500	0.04419		mg/L		88	75 - 125	14	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04695		mg/L		94	75 - 125	9	25
sec-Butylbenzene	0.0500	0.04608		mg/L		92	75 - 125	6	25
Styrene	0.0500	0.04571		mg/L		91	75 - 125	14	25
tert-Butylbenzene	0.0500	0.04376		mg/L		88	75 - 125	11	25
1,1,1,2-Tetrachloroethane	0.0500	0.04655		mg/L		93	72 - 125	9	25
1,1,2,2-Tetrachloroethane	0.0500	0.04496		mg/L		90	74 - 125	4	25
Tetrachloroethene	0.0500	0.04311		mg/L		86	71 - 125	10	25
Toluene	0.0500	0.04331		mg/L		87	75 - 130	6	25

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QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-140905/4
Matrix: Water
Analysis Batch: 140905

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
trans-1,2-Dichloroethene	0.0500	0.04054		mg/L		81	75 - 125	11	25
trans-1,3-Dichloropropene	0.0500	0.04809		mg/L		96	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.04661		mg/L		93	75 - 137	10	25
1,2,4-Trichlorobenzene	0.0500	0.04627		mg/L		93	75 - 135	10	25
1,1,1-Trichloroethane	0.0500	0.04521		mg/L		90	70 - 130	8	25
1,1,2-Trichloroethane	0.0500	0.04534		mg/L		91	75 - 130	0	25
Trichloroethene	0.0500	0.04473		mg/L		89	75 - 135	9	25
Trichlorofluoromethane	0.0500	0.04190		mg/L		84	60 - 140	18	25
1,2,3-Trichloropropane	0.0500	0.04616		mg/L		92	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04541		mg/L		91	75 - 125	7	25
1,3,5-Trimethylbenzene	0.0500	0.04498		mg/L		90	60 - 140	8	25
Vinyl chloride	0.0500	0.04072		mg/L		81	60 - 140	13	25

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	98		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-140963/3
Matrix: Water
Analysis Batch: 140963

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			01/17/24 15:57	1
Chloride	<0.250	U	0.500	0.250 mg/L			01/17/24 15:57	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/17/24 15:57	1
Sulfate	<0.200	U	0.500	0.200 mg/L			01/17/24 15:57	1

Lab Sample ID: LCS 860-140963/4
Matrix: Water
Analysis Batch: 140963

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Bromide	10.0	10.40		mg/L		104	90 - 110
Chloride	10.0	10.53		mg/L		105	90 - 110
Fluoride	10.0	10.59		mg/L		106	90 - 110
Sulfate	10.0	10.79		mg/L		108	90 - 110

Lab Sample ID: LCSD 860-140963/5
Matrix: Water
Analysis Batch: 140963

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Bromide	10.0	10.37		mg/L		104	90 - 110	0	20
Chloride	10.0	10.50		mg/L		105	90 - 110	0	20
Fluoride	10.0	10.53		mg/L		105	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-140963/5

Matrix: Water

Analysis Batch: 140963

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	10.69		mg/L		107	90 - 110	1	20

Lab Sample ID: LLCS 860-140963/7

Matrix: Water

Analysis Batch: 140963

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	0.4622	J	mg/L		92	50 - 150
Chloride	0.500	0.4973	J	mg/L		99	50 - 150
Fluoride	0.500	0.4651	J	mg/L		93	50 - 150
Sulfate	0.500	0.3493	J	mg/L		70	50 - 150

Lab Sample ID: MB 860-140964/3

Matrix: Water

Analysis Batch: 140964

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			01/17/24 15:57	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/17/24 15:57	1

Lab Sample ID: LCS 860-140964/4

Matrix: Water

Analysis Batch: 140964

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	10.58		mg/L		106	80 - 120
Nitrite as N	10.0	10.32		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-140964/5

Matrix: Water

Analysis Batch: 140964

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	10.56		mg/L		106	80 - 120	0	20
Nitrite as N	10.0	10.35		mg/L		104	80 - 120	0	20

Lab Sample ID: LLCS 860-140964/6

Matrix: Water

Analysis Batch: 140964

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	0.09900	J	mg/L		99	50 - 150
Nitrite as N	0.100	0.08474	J	mg/L		85	50 - 150

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QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-141501/1-A
Matrix: Water
Analysis Batch: 141709

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 141501

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.1760	J	0.200	0.115 mg/L		01/21/24 11:00	01/22/24 14:49	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		01/21/24 11:00	01/22/24 14:49	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		01/21/24 11:00	01/22/24 14:49	1
Sodium	<0.152	U	0.500	0.152 mg/L		01/21/24 11:00	01/22/24 14:49	1
SiO2	<0.471	U	1.07	0.471 mg/L		01/21/24 11:00	01/22/24 14:49	1

Lab Sample ID: LCS 860-141501/2-A
Matrix: Water
Analysis Batch: 141709

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 141501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.80		mg/L		99	85 - 115
Magnesium	25.0	25.40		mg/L		102	85 - 115
Potassium	10.0	10.10		mg/L		101	85 - 115
Sodium	25.0	25.10		mg/L		100	85 - 115
SiO2	21.4	21.16		mg/L		99	85 - 115

Lab Sample ID: LCSD 860-141501/3-A
Matrix: Water
Analysis Batch: 141709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 141501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	25.0	24.90		mg/L		100	85 - 115	0	20
Magnesium	25.0	25.40		mg/L		102	85 - 115	0	20
Potassium	10.0	10.10		mg/L		101	85 - 115	0	20
Sodium	25.0	25.10		mg/L		100	85 - 115	0	20
SiO2	21.4	21.16		mg/L		99	85 - 115	0	20

Lab Sample ID: LLCS 860-141501/4-A
Matrix: Water
Analysis Batch: 141709

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 141501

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.200	0.2890		mg/L		145	50 - 150
Magnesium	0.200	0.2270		mg/L		114	50 - 150
Potassium	0.500	0.4510	J	mg/L		90	50 - 150
Sodium	0.500	0.5200		mg/L		104	50 - 150
SiO2	1.07	1.044	J	mg/L		98	50 - 150

Lab Sample ID: 880-37987-1 MS
Matrix: Water
Analysis Batch: 141709

Client Sample ID: Levey Well
Prep Type: Total Recoverable
Prep Batch: 141501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	377	B	25.0	391.0	4	mg/L		56	70 - 130
Magnesium	72.3		25.0	95.60		mg/L		93	70 - 130
Potassium	6.36		10.0	16.60		mg/L		102	70 - 130
Sodium	130		25.0	152.0	4	mg/L		88	70 - 130
SiO2	69.8		21.4	90.95		mg/L		99	70 - 130

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QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

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

Lab Sample ID: 880-37987-1 MSD
Matrix: Water
Analysis Batch: 141709

Client Sample ID: Levey Well
Prep Type: Total Recoverable
Prep Batch: 141501

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	377	B	25.0	398.0	4	mg/L		84	70 - 130	2	20
Magnesium	72.3		25.0	97.00		mg/L		99	70 - 130	1	20
Potassium	6.36		10.0	16.80		mg/L		104	70 - 130	1	20
Sodium	130		25.0	154.0	4	mg/L		96	70 - 130	1	20
SiO2	69.8		21.4	92.23		mg/L		105	70 - 130	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-141314/65
Matrix: Water
Analysis Batch: 141314

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			01/18/24 19:33	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/18/24 19:33	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/18/24 19:33	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/18/24 19:33	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00 mg/L			01/18/24 19:33	1

Lab Sample ID: LCS 860-141314/66
Matrix: Water
Analysis Batch: 141314

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Alkalinity	250	251.8		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-141314/67
Matrix: Water
Analysis Batch: 141314

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		
Alkalinity	250	257.3		mg/L		103	85 - 115	2	20

Lab Sample ID: 880-37987-1 DU
Matrix: Water
Analysis Batch: 141314

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

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity	1110		1105		mg/L		0.3	20
Bicarbonate Alkalinity as CaCO3	1110		1105		mg/L		0.3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

QC Sample Results

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

Job ID: 880-37987-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-141310/1										Client Sample ID: Method Blank	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 141310											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Total Dissolved Solids	<5.00	U	5.00	5.00 mg/L			01/19/24 10:07	1			

Lab Sample ID: LCS 860-141310/2										Client Sample ID: Lab Control Sample	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 141310											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Total Dissolved Solids	1000	1110		mg/L		111	80 - 120				

Lab Sample ID: LCSD 860-141310/3										Client Sample ID: Lab Control Sample Dup	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 141310											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Total Dissolved Solids	1000	1110		mg/L		111	80 - 120	0	10		

Lab Sample ID: LLCS 860-141310/21										Client Sample ID: Lab Control Sample	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 141310											
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: 880-37987-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 140905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total/NA	Water	8260C	
MB 860-140905/9	Method Blank	Total/NA	Water	8260C	
LCS 860-140905/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-140905/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 140963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total/NA	Water	300.0	
MB 860-140963/3	Method Blank	Total/NA	Water	300.0	
LCS 860-140963/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-140963/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-140963/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 140964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total/NA	Water	300.0	
MB 860-140964/3	Method Blank	Total/NA	Water	300.0	
LCS 860-140964/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-140964/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-140964/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 141501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-141501/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-141501/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-141501/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-141501/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
880-37987-1 MS	Levey Well	Total Recoverable	Water	200.7	
880-37987-1 MSD	Levey Well	Total Recoverable	Water	200.7	

Analysis Batch: 141709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	141501
880-37987-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	141501
MB 860-141501/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	141501
LCS 860-141501/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	141501
LCSD 860-141501/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	141501
LLCS 860-141501/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	141501
880-37987-1 MS	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	141501
880-37987-1 MSD	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	141501

General Chemistry

Analysis Batch: 136687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total/NA	Water	SM 1030E	

Eurofins Midland

QC Association Summary

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

Job ID: 880-37987-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 141179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 141310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-141310/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-141310/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-141310/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-141310/21	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 141314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37987-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-141314/65	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-141314/66	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-141314/67	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-37987-1 DU	Levey Well	Total/NA	Water	SM 2320B	

Lab Chronicle

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

Job ID: 880-37987-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-37987-1

Date Collected: 01/15/24 12:40

Matrix: Water

Date Received: 01/15/24 16:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	140905	AN	EET HOU	01/17/24 14:25
Total/NA	Analysis	300.0		1	140963	WP	EET HOU	01/18/24 03:35
Total/NA	Analysis	300.0		1	140964	WP	EET HOU	01/18/24 03:35
Total Recoverable	Prep	200.7			141501	MD	EET HOU	01/21/24 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	141709	JDM	EET HOU	01/22/24 14:57
Total Recoverable	Prep	200.7			141501	MD	EET HOU	01/21/24 11:00
Total Recoverable	Analysis	200.7 Rev 4.4		50	141709	JDM	EET HOU	01/22/24 15:13
Total/NA	Analysis	SM 1030E		1	136687	MC	EET HOU	01/23/24 19:48
Total/NA	Analysis	SM 2320B		1	141314	KEG	EET HOU	01/18/24 20:05
Total/NA	Analysis	SM 2540C		1	141310	GD	EET HOU	01/19/24 10:07
Total/NA	Analysis	SM 4500 H+ B		1	141179	KEG	EET HOU	01/18/24 15:27

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: 880-37987-1
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: 880-37987-1
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: 880-37987-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37987-1	Levey Well	Water	01/15/24 12:40	01/15/24 16:37

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880-37987 Chain of Custody

Program: ☐ US/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other ☐

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn			
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP 6010		8RCRA	Sb	As	Ba	Be	Cd <td>Cr</td> <td>Co <td>Cu <td>Pb</td> <td>Mn</td> <td>Mo <td>Ni</td> <td>Se</td> <td>Ag</td> <td>Ti</td> <td>U</td> <td colspan="15"></td> </td></td></td>	Cr	Co <td>Cu <td>Pb</td> <td>Mn</td> <td>Mo <td>Ni</td> <td>Se</td> <td>Ag</td> <td>Ti</td> <td>U</td> <td colspan="15"></td> </td></td>	Cu <td>Pb</td> <td>Mn</td> <td>Mo <td>Ni</td> <td>Se</td> <td>Ag</td> <td>Ti</td> <td>U</td> <td colspan="15"></td> </td>	Pb	Mn	Mo <td>Ni</td> <td>Se</td> <td>Ag</td> <td>Ti</td> <td>U</td> <td colspan="15"></td>	Ni	Se	Ag	Ti	U															
									</																											

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
1.	[Handwritten Signature]	[Handwritten Signature]	1/15/24			
2.	[Blank]	[Blank]				
3.	[Blank]	[Blank]				
4.	[Blank]	[Blank]				
5.	[Blank]	[Blank]				
6.	[Blank]	[Blank]				

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

1/23/2024

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-37987-1

SDG Number: Hobbs NM

Login Number: 37987
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: 880-37987-1

SDG Number: Hobbs NM

Login Number: 37987
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 01/17/24 11:22 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/31/2024 8:48:26 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-38496-1

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
1/31/2024 8:48:26 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: 880-38496-1
SDG: Hobbs NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
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: 880-38496-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-38496-1

Job ID: 880-38496-1Eurofins Midland

Job Narrative
880-38496-1

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 1/25/2024 3:40 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 5.1°C

GC/MS VOA

Method 8260C: The method blank for analytical batch 860-142282 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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 860-142422 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

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

Metals

Method 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-142605 and analytical batch 860-142781 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

Eurofins Midland

Client Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-38496-1

Date Collected: 01/25/24 11:55

Matrix: Water

Date Received: 01/25/24 15:40

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			01/26/24 16:40	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/26/24 16:40	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/26/24 16:40	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/26/24 16:40	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/26/24 16:40	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/26/24 16:40	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/26/24 16:40	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/26/24 16:40	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/26/24 16:40	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/26/24 16:40	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/26/24 16:40	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/26/24 16:40	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/26/24 16:40	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/26/24 16:40	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/26/24 16:40	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/26/24 16:40	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/26/24 16:40	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/26/24 16:40	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/26/24 16:40	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/26/24 16:40	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/26/24 16:40	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/26/24 16:40	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/26/24 16:40	1
1,1-Dichloroethane	0.00102		0.00100	0.000635 mg/L			01/26/24 16:40	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/26/24 16:40	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/26/24 16:40	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/26/24 16:40	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/26/24 16:40	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/26/24 16:40	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/26/24 16:40	1
Ethylbenzene	0.00226		0.00100	0.000385 mg/L			01/26/24 16:40	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/26/24 16:40	1
Isopropylbenzene	0.00131		0.00100	0.000592 mg/L			01/26/24 16:40	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/26/24 16:40	1
m,p-Xylenes	0.0102		0.0100	0.00124 mg/L			01/26/24 16:40	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/26/24 16:40	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/26/24 16:40	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/26/24 16:40	1
N-Propylbenzene	0.000745	J	0.00100	0.000429 mg/L			01/26/24 16:40	1
o-Xylene	0.00169		0.00100	0.000502 mg/L			01/26/24 16:40	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			01/26/24 16:40	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/26/24 16:40	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/26/24 16:40	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/26/24 16:40	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/26/24 16:40	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/26/24 16:40	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/26/24 16:40	1
Toluene	0.00366		0.00100	0.000475 mg/L			01/26/24 16:40	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			01/26/24 16:40	1

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Client Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-38496-1
Date Collected: 01/25/24 11:55 Matrix: Water
Date Received: 01/25/24 15:40

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			01/26/24 16:40	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/26/24 16:40	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/26/24 16:40	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/26/24 16:40	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/26/24 16:40	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/26/24 16:40	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/26/24 16:40	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/26/24 16:40	1
1,2,4-Trimethylbenzene	0.00338		0.00100	0.000417 mg/L			01/26/24 16:40	1
1,3,5-Trimethylbenzene	0.000815	J	0.00100	0.000411 mg/L			01/26/24 16:40	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/26/24 16:40	1
Xylenes, Total	0.0119		0.0100	0.00124 mg/L			01/26/24 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124				01/26/24 16:40	1
Dibromofluoromethane (Surr)	99		75 - 131				01/26/24 16:40	1
1,2-Dichloroethane-d4 (Surr)	100		63 - 144				01/26/24 16:40	1
Toluene-d8 (Surr)	101		80 - 120				01/26/24 16:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.471	J	0.500	0.0711 mg/L			01/27/24 10:42	1
Nitrate as N	0.110		0.100	0.0391 mg/L			01/27/24 10:42	1
Chloride	240		0.500	0.250 mg/L			01/27/24 10:42	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/27/24 10:42	1
Fluoride	0.666		0.500	0.100 mg/L			01/27/24 10:42	1
Sulfate	27.3		0.500	0.200 mg/L			01/27/24 10:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	196		10.0	5.76 mg/L		01/29/24 10:30	01/29/24 18:44	50
Magnesium	41.2		0.200	0.0428 mg/L		01/29/24 10:30	01/29/24 18:31	1
Potassium	3.09		0.500	0.0914 mg/L		01/29/24 10:30	01/29/24 18:31	1
Sodium	73.6		0.500	0.152 mg/L		01/29/24 10:30	01/29/24 18:31	1
SiO2	64.0		1.07	0.471 mg/L		01/29/24 10:30	01/29/24 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	-6.50			%			01/31/24 19:46	1
Alkalinity (SM 2320B)	479		4.00	4.00 mg/L			01/29/24 11:12	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	479		4.00	4.00 mg/L			01/29/24 11:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/29/24 11:12	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/29/24 11:12	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/29/24 11:12	1
Total Dissolved Solids (SM 2540C)	1510		10.0	10.0 mg/L			01/30/24 16:38	1
pH (SM 4500 H+ B)	6.9	HF		SU			01/30/24 14:40	1
Temperature (SM 4500 H+ B)	18.2	HF		Degrees C			01/30/24 14:40	1

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Surrogate Summary

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

Job ID: 880-38496-1
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)
880-38496-1	Levey Well	98	99	100	101
LCS 860-142282/3	Lab Control Sample	95	99	98	102
LCSD 860-142282/4	Lab Control Sample Dup	100	97	97	102
MB 860-142282/10	Method Blank	95	100	103	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-142282/10

Matrix: Water

Analysis Batch: 142282

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.000460	U	0.00100	0.000460	mg/L		01/26/24 09:50	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/26/24 09:50	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/26/24 09:50	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/26/24 09:50	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/26/24 09:50	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/26/24 09:50	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/26/24 09:50	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/26/24 09:50	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/26/24 09:50	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/26/24 09:50	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/26/24 09:50	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/26/24 09:50	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/26/24 09:50	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/26/24 09:50	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/26/24 09:50	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/26/24 09:50	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/26/24 09:50	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/26/24 09:50	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/26/24 09:50	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/26/24 09:50	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/26/24 09:50	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/26/24 09:50	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/26/24 09:50	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/26/24 09:50	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/26/24 09:50	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/26/24 09:50	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/26/24 09:50	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/26/24 09:50	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/26/24 09:50	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/26/24 09:50	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		01/26/24 09:50	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/26/24 09:50	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		01/26/24 09:50	1
Methylene Chloride	0.001781	J	0.00500	0.00173	mg/L		01/26/24 09:50	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		01/26/24 09:50	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/26/24 09:50	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/26/24 09:50	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/26/24 09:50	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		01/26/24 09:50	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		01/26/24 09:50	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/26/24 09:50	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/26/24 09:50	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/26/24 09:50	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/26/24 09:50	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/26/24 09:50	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/26/24 09:50	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/26/24 09:50	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		01/26/24 09:50	1

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QC Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-142282/10

Matrix: Water

Analysis Batch: 142282

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		01/26/24 09:50	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		01/26/24 09:50	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		01/26/24 09:50	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		01/26/24 09:50	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		01/26/24 09:50	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		01/26/24 09:50	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		01/26/24 09:50	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		01/26/24 09:50	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		01/26/24 09:50	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		01/26/24 09:50	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		01/26/24 09:50	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		01/26/24 09:50	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		01/26/24 09:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 124		01/26/24 09:50	1
Dibromofluoromethane (Surr)	100		75 - 131		01/26/24 09:50	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		01/26/24 09:50	1
Toluene-d8 (Surr)	100		80 - 120		01/26/24 09:50	1

Lab Sample ID: LCS 860-142282/3

Matrix: Water

Analysis Batch: 142282

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	0.05122		mg/L		102	75 - 125
Bromobenzene	0.0500	0.05254		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05375		mg/L		108	60 - 140
Bromodichloromethane	0.0500	0.05357		mg/L		107	75 - 125
Bromoform	0.0500	0.05781		mg/L		116	70 - 130
Bromomethane	0.0500	0.04948		mg/L		99	60 - 140
2-Butanone	0.250	0.2432		mg/L		97	60 - 140
Carbon tetrachloride	0.0500	0.05082		mg/L		102	70 - 125
Chlorobenzene	0.0500	0.05331		mg/L		107	82 - 135
Chloroethane	0.0500	0.04813		mg/L		96	60 - 140
Chloroform	0.0500	0.05146		mg/L		103	70 - 121
Chloromethane	0.0500	0.05227		mg/L		105	60 - 140
2-Chlorotoluene	0.0500	0.05098		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05092		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05116		mg/L		102	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05158		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.05640		mg/L		113	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05566		mg/L		111	59 - 125
1,2-Dibromoethane	0.0500	0.05447		mg/L		109	73 - 125
1,2-Dichlorobenzene	0.0500	0.05296		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05181		mg/L		104	75 - 125
1,4-Dichlorobenzene	0.0500	0.05078		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.06558		mg/L		131	50 - 150

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QC Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-142282/3
Matrix: Water
Analysis Batch: 142282

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	0.05239		mg/L		105	71 - 130
1,2-Dichloroethane	0.0500	0.05122		mg/L		102	72 - 130
1,1-Dichloroethene	0.0500	0.04808		mg/L		96	50 - 150
1,2-Dichloropropane	0.0500	0.05191		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.05416		mg/L		108	75 - 125
2,2-Dichloropropane	0.0500	0.05199		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04844		mg/L		97	75 - 125
Ethylbenzene	0.0500	0.05274		mg/L		105	75 - 125
Hexachlorobutadiene	0.0500	0.05209		mg/L		104	75 - 125
Isopropylbenzene	0.0500	0.05430		mg/L		109	75 - 125
Methylene Chloride	0.0500	0.04975		mg/L		99	71 - 125
m,p-Xylenes	0.0500	0.05337		mg/L		107	75 - 125
MTBE	0.0500	0.05527		mg/L		111	65 - 135
Naphthalene	0.0500	0.05505		mg/L		110	70 - 130
n-Butylbenzene	0.0500	0.04969		mg/L		99	75 - 125
N-Propylbenzene	0.0500	0.05070		mg/L		101	75 - 125
o-Xylene	0.0500	0.05388		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05233		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05125		mg/L		102	75 - 125
Styrene	0.0500	0.05489		mg/L		110	75 - 125
tert-Butylbenzene	0.0500	0.05257		mg/L		105	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05520		mg/L		110	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05439		mg/L		109	74 - 125
Tetrachloroethene	0.0500	0.05091		mg/L		102	71 - 125
Toluene	0.0500	0.05211		mg/L		104	75 - 130
trans-1,2-Dichloroethene	0.0500	0.05118		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05302		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05248		mg/L		105	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05146		mg/L		103	75 - 135
1,1,1-Trichloroethane	0.0500	0.05042		mg/L		101	70 - 130
1,1,2-Trichloroethane	0.0500	0.05448		mg/L		109	75 - 130
Trichloroethene	0.0500	0.05184		mg/L		104	75 - 135
Trichlorofluoromethane	0.0500	0.04848		mg/L		97	60 - 140
1,2,3-Trichloropropane	0.0500	0.05074		mg/L		101	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05288		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05198		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.04917		mg/L		98	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
Toluene-d8 (Surr)	102		80 - 120

QC Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-142282/4

Matrix: Water

Analysis Batch: 142282

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	0.05027		mg/L		101	75 - 125	2	25
Bromobenzene	0.0500	0.05581		mg/L		112	75 - 125	6	25
Bromochloromethane	0.0500	0.05301		mg/L		106	60 - 140	1	25
Bromodichloromethane	0.0500	0.05241		mg/L		105	75 - 125	2	25
Bromoform	0.0500	0.05967		mg/L		119	70 - 130	3	25
Bromomethane	0.0500	0.04753		mg/L		95	60 - 140	4	25
2-Butanone	0.250	0.2468		mg/L		99	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04849		mg/L		97	70 - 125	5	25
Chlorobenzene	0.0500	0.05388		mg/L		108	82 - 135	1	25
Chloroethane	0.0500	0.04702		mg/L		94	60 - 140	2	25
Chloroform	0.0500	0.05008		mg/L		100	70 - 121	3	25
Chloromethane	0.0500	0.05072		mg/L		101	60 - 140	3	25
2-Chlorotoluene	0.0500	0.05426		mg/L		109	73 - 125	6	25
4-Chlorotoluene	0.0500	0.05403		mg/L		108	74 - 125	6	25
cis-1,2-Dichloroethene	0.0500	0.05003		mg/L		100	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05090		mg/L		102	74 - 125	1	25
Dibromochloromethane	0.0500	0.05747		mg/L		115	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.06158		mg/L		123	59 - 125	10	25
1,2-Dibromoethane	0.0500	0.05664		mg/L		113	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.05691		mg/L		114	75 - 125	7	25
1,3-Dichlorobenzene	0.0500	0.05560		mg/L		111	75 - 125	7	25
1,4-Dichlorobenzene	0.0500	0.05372		mg/L		107	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.06263		mg/L		125	50 - 150	5	25
1,1-Dichloroethane	0.0500	0.05387		mg/L		108	71 - 130	3	25
1,2-Dichloroethane	0.0500	0.05110		mg/L		102	72 - 130	0	25
1,1-Dichloroethene	0.0500	0.04648		mg/L		93	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.05189		mg/L		104	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.05487		mg/L		110	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05056		mg/L		101	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04686		mg/L		94	75 - 125	3	25
Ethylbenzene	0.0500	0.05279		mg/L		106	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05582		mg/L		112	75 - 125	7	25
Isopropylbenzene	0.0500	0.05476		mg/L		110	75 - 125	1	25
Methylene Chloride	0.0500	0.04928		mg/L		99	71 - 125	1	25
m,p-Xylenes	0.0500	0.05338		mg/L		107	75 - 125	0	25
MTBE	0.0500	0.05627		mg/L		113	65 - 135	2	25
Naphthalene	0.0500	0.06042		mg/L		121	70 - 130	9	25
n-Butylbenzene	0.0500	0.05266		mg/L		105	75 - 125	6	25
N-Propylbenzene	0.0500	0.05374		mg/L		107	75 - 125	6	25
o-Xylene	0.0500	0.05439		mg/L		109	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05503		mg/L		110	75 - 125	5	25
sec-Butylbenzene	0.0500	0.05402		mg/L		108	75 - 125	5	25
Styrene	0.0500	0.05581		mg/L		112	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05556		mg/L		111	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.05625		mg/L		112	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.05890		mg/L		118	74 - 125	8	25
Tetrachloroethene	0.0500	0.05213		mg/L		104	71 - 125	2	25
Toluene	0.0500	0.05232		mg/L		105	75 - 130	0	25

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QC Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-142282/4

Matrix: Water

Analysis Batch: 142282

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
trans-1,2-Dichloroethene	0.0500	0.05020		mg/L		100	75 - 125	2	25
trans-1,3-Dichloropropene	0.0500	0.05444		mg/L		109	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05566		mg/L		111	75 - 137	6	25
1,2,4-Trichlorobenzene	0.0500	0.05424		mg/L		108	75 - 135	5	25
1,1,1-Trichloroethane	0.0500	0.04905		mg/L		98	70 - 130	3	25
1,1,2-Trichloroethane	0.0500	0.05587		mg/L		112	75 - 130	3	25
Trichloroethene	0.0500	0.05155		mg/L		103	75 - 135	1	25
Trichlorofluoromethane	0.0500	0.04696		mg/L		94	60 - 140	3	25
1,2,3-Trichloropropane	0.0500	0.05584		mg/L		112	75 - 125	10	25
1,2,4-Trimethylbenzene	0.0500	0.05640		mg/L		113	75 - 125	6	25
1,3,5-Trimethylbenzene	0.0500	0.05588		mg/L		112	60 - 140	7	25
Vinyl chloride	0.0500	0.04805		mg/L		96	60 - 140	2	25

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-142422/3

Matrix: Water

Analysis Batch: 142422

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Bromide	<0.0711	U	0.500	0.0711 mg/L			01/26/24 23:43	1
Chloride	<0.250	U	0.500	0.250 mg/L			01/26/24 23:43	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/26/24 23:43	1
Sulfate	<0.200	U	0.500	0.200 mg/L			01/26/24 23:43	1

Lab Sample ID: LCS 860-142422/4

Matrix: Water

Analysis Batch: 142422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Bromide	10.0	10.07		mg/L		101	90 - 110		
Chloride	10.0	10.13		mg/L		101	90 - 110		
Fluoride	10.0	10.67		mg/L		107	90 - 110		
Sulfate	10.0	10.32		mg/L		103	90 - 110		

Lab Sample ID: LCSD 860-142422/5

Matrix: Water

Analysis Batch: 142422

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Bromide	10.0	10.07		mg/L		101	90 - 110	0	20
Chloride	10.0	10.13		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.68		mg/L		107	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-142422/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142422											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Sulfate	10.0	10.32		mg/L		103	90 - 110	0	20		

Lab Sample ID: LLCS 860-142422/7				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142422											
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits				
Bromide	0.500	0.5870		mg/L		117	50 - 150				
Chloride	0.500	0.5652		mg/L		113	50 - 150				
Fluoride	0.500	0.5917		mg/L		118	50 - 150				
Sulfate	0.500	0.5188		mg/L		104	50 - 150				

Lab Sample ID: MB 860-142423/3				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142423											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/26/24 23:43	1			
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/26/24 23:43	1			

Lab Sample ID: LCS 860-142423/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142423											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Nitrate as N	10.0	10.19		mg/L		102	80 - 120				
Nitrite as N	10.0	9.811		mg/L		98	80 - 120				

Lab Sample ID: LCSD 860-142423/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142423											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Nitrate as N	10.0	10.19		mg/L		102	80 - 120	0	20		
Nitrite as N	10.0	9.807		mg/L		98	80 - 120	0	20		

Lab Sample ID: LLCS 860-142423/6				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142423											
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits				
Nitrate as N	0.100	0.1014		mg/L		101	50 - 150				
Nitrite as N	0.100	0.1073		mg/L		107	50 - 150				

QC Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-142605/1-A
Matrix: Water
Analysis Batch: 142781

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 142605

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Calcium	<0.115	U	0.200	0.115 mg/L		01/29/24 10:30	01/29/24 17:49	1
Magnesium	<0.0428	U	0.200	0.0428 mg/L		01/29/24 10:30	01/29/24 17:49	1
Potassium	<0.0914	U	0.500	0.0914 mg/L		01/29/24 10:30	01/29/24 17:49	1
Sodium	<0.152	U	0.500	0.152 mg/L		01/29/24 10:30	01/29/24 17:49	1
SiO2	<0.471	U	1.07	0.471 mg/L		01/29/24 10:30	01/29/24 17:49	1

Lab Sample ID: LCS 860-142605/2-A
Matrix: Water
Analysis Batch: 142781

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 142605

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Calcium	25.0	27.00		mg/L		108	85 - 115	
Magnesium	25.0	26.90		mg/L		108	85 - 115	
Potassium	10.0	11.10		mg/L		111	85 - 115	
Sodium	25.0	26.80		mg/L		107	85 - 115	
SiO2	21.4	23.33		mg/L		109	85 - 115	

Lab Sample ID: LCSD 860-142605/3-A
Matrix: Water
Analysis Batch: 142781

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 142605

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	
		Result	Qualifier				Limits		RPD	Limit
Calcium	25.0	27.00		mg/L		108	85 - 115		0	20
Magnesium	25.0	26.90		mg/L		108	85 - 115		0	20
Potassium	10.0	11.10		mg/L		111	85 - 115		0	20
Sodium	25.0	26.70		mg/L		107	85 - 115		0	20
SiO2	21.4	23.33		mg/L		109	85 - 115		0	20

Lab Sample ID: LLCS 860-142605/4-A
Matrix: Water
Analysis Batch: 142781

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 142605

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Calcium	0.200	0.2180		mg/L		109	50 - 150	
Magnesium	0.200	0.2130		mg/L		107	50 - 150	
Potassium	0.500	0.5270		mg/L		105	50 - 150	
Sodium	0.500	0.5810		mg/L		116	50 - 150	
SiO2	1.07	1.038	J	mg/L		97	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-142658/3
Matrix: Water
Analysis Batch: 142658

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			01/29/24 10:43	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/29/24 10:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/29/24 10:43	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00 mg/L			01/29/24 10:43	1

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QC Sample Results

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

Job ID: 880-38496-1
SDG: Hobbs NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-142658/3

Matrix: Water

Analysis Batch: 142658

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			01/29/24 10:43	1

Lab Sample ID: LCS 860-142658/4

Matrix: Water

Analysis Batch: 142658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	252.1		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-142658/5

Matrix: Water

Analysis Batch: 142658

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	265.9		mg/L		106	85 - 115	5	20

Lab Sample ID: 880-38496-1 DU

Matrix: Water

Analysis Batch: 142658

Client Sample ID: Levey Well

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	479		462.9		mg/L		4	20
Bicarbonate Alkalinity as CaCO3	479		462.9		mg/L		4	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-142899/1

Matrix: Water

Analysis Batch: 142899

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			01/30/24 16:38	1

Lab Sample ID: LCS 860-142899/2

Matrix: Water

Analysis Batch: 142899

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	1110		mg/L		111	80 - 120

Lab Sample ID: LCSD 860-142899/3

Matrix: Water

Analysis Batch: 142899

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	1111		mg/L		111	80 - 120	0	10

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QC Association Summary

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

Job ID: 880-38496-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 142282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total/NA	Water	8260C	
MB 860-142282/10	Method Blank	Total/NA	Water	8260C	
LCS 860-142282/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-142282/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 142422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total/NA	Water	300.0	
MB 860-142422/3	Method Blank	Total/NA	Water	300.0	
LCS 860-142422/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-142422/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-142422/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 142423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total/NA	Water	300.0	
MB 860-142423/3	Method Blank	Total/NA	Water	300.0	
LCS 860-142423/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-142423/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-142423/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 142605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-142605/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-142605/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-142605/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-142605/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 142781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	142605
880-38496-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	142605
MB 860-142605/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	142605
LCS 860-142605/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	142605
LCSD 860-142605/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	142605
LLCS 860-142605/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	142605

General Chemistry

Analysis Batch: 142658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-142658/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-142658/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-142658/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-38496-1 DU	Levey Well	Total/NA	Water	SM 2320B	

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QC Association Summary

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

Job ID: 880-38496-1
SDG: Hobbs NM

General Chemistry

Analysis Batch: 142715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 142869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 142899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38496-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-142899/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-142899/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-142899/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-142899/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

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

Job ID: 880-38496-1
SDG: Hobbs NM

Client Sample ID: Levey Well Lab Sample ID: 880-38496-1
Date Collected: 01/25/24 11:55 Matrix: Water
Date Received: 01/25/24 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	142282	NA	EET HOU	01/26/24 16:40
Total/NA	Analysis	300.0		1	142422	A1S	EET HOU	01/27/24 10:42
Total/NA	Analysis	300.0		1	142423	A1S	EET HOU	01/27/24 10:42
Total Recoverable	Prep	200.7			142605	MD	EET HOU	01/29/24 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	142781	JDM	EET HOU	01/29/24 18:31
Total Recoverable	Prep	200.7			142605	MD	EET HOU	01/29/24 10:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	142781	JDM	EET HOU	01/29/24 18:44
Total/NA	Analysis	SM 1030E		1	142715	MC	EET HOU	01/31/24 19:46
Total/NA	Analysis	SM 2320B		1	142658	KEG	EET HOU	01/29/24 11:12
Total/NA	Analysis	SM 2540C		1	142899	GD	EET HOU	01/30/24 16:38
Total/NA	Analysis	SM 4500 H+ B		1	142869	KEG	EET HOU	01/30/24 14:40

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: 880-38496-1
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: 880-38496-1
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: 880-38496-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38496-1	Levey Well	Water	01/25/24 11:55	01/25/24 15:40

- 1
- 2
- 3
- 4
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- 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: 4910

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

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 ☒	Wet Ice:	Yes ☐ No ☐
Temperature (°C):	49.51	Thermometer ID			
Received Intact:	Yes ☒ No ☐				
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor: 4.70			
Sample Custody Seals:	Yes ☐ No ☒ N/A	Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
Levey Well	GW	1-25-24	11:53	—

GUSTODY SEAL DATE 1-25-24 SIGNATURE <i>[Signature]</i>		QEC Quality Environmental Containers 800-255-3950 • www.qecusa.com

Notice: Signature of this document and relin 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>	1/25/24			
	<i>[Signature]</i>	3:40			

Relinquished by: (Signature)	Received by: (Signature)	Date/Time

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: 880-38496-1

SDG Number: Hobbs NM

Login Number: 38496

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-38496-1

SDG Number: Hobbs NM

Login Number: 38496
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 01/26/24 01:56 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 2/6/2024 8:44:11 PM

JOB DESCRIPTION

Levey Well Hobbs, NM - 03B1417001
Hobbs NM

JOB NUMBER

880-38670-1

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
2/6/2024 8:44:11 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: 880-38670-1
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	20
Lab Chronicle	22
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	28

1

2

3

4

5

6

7

8

9

10

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12

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14

Definitions/Glossary

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

Job ID: 880-38670-1
SDG: Hobbs NM

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
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: Levey Well Hobbs, NM - 03B1417001

Job ID: 880-38670-1

Job ID: 880-38670-1

Eurofins Midland

Job Narrative 880-38670-1

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 1/30/2024 3:15 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 0.8°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-142967 recovered above the upper control limit for Dichloro difluoromethane (54%). 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 860-142967/2).

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-142967 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 860-142803 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 sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-142803 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-143301 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-143301 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 (MS) recoveries for analytical batch 860-142804 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: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis : Levey Well (880-38670-1).

Method 300_ORGFMS: The method blank for analytical batch 860-142804 contained Nitrite as N above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

Metals

Eurofins Midland

Case Narrative

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

Job ID: 880-38670-1

Job ID: 880-38670-1 (Continued) Eurofins Midland

Method 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-143225 and analytical batch 860-143439 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 (880-38670-1). 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.

Eurofins Midland

Client Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

Client Sample ID: Levey Well

Lab Sample ID: 880-38670-1

Date Collected: 01/29/24 14:50

Matrix: Water

Date Received: 01/30/24 15:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00726		0.00100	0.000460 mg/L			01/31/24 14:14	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/31/24 14:14	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/31/24 14:14	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/31/24 14:14	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/31/24 14:14	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/31/24 14:14	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/31/24 14:14	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/31/24 14:14	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/31/24 14:14	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/31/24 14:14	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/31/24 14:14	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/31/24 14:14	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/31/24 14:14	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/31/24 14:14	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/31/24 14:14	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/31/24 14:14	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/31/24 14:14	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/31/24 14:14	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/31/24 14:14	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/31/24 14:14	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/31/24 14:14	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/31/24 14:14	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/31/24 14:14	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/31/24 14:14	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/31/24 14:14	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/31/24 14:14	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/31/24 14:14	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/31/24 14:14	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/31/24 14:14	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/31/24 14:14	1
Ethylbenzene	0.0245		0.00100	0.000385 mg/L			01/31/24 14:14	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/31/24 14:14	1
Isopropylbenzene	0.0119		0.00100	0.000592 mg/L			01/31/24 14:14	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/31/24 14:14	1
m,p-Xylenes	0.0984		0.0100	0.00124 mg/L			01/31/24 14:14	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/31/24 14:14	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/31/24 14:14	1
n-Butylbenzene	0.00107		0.00100	0.000510 mg/L			01/31/24 14:14	1
N-Propylbenzene	0.00508		0.00100	0.000429 mg/L			01/31/24 14:14	1
o-Xylene	0.0165		0.00100	0.000502 mg/L			01/31/24 14:14	1
p-Cymene (p-Isopropyltoluene)	0.00116		0.00100	0.000676 mg/L			01/31/24 14:14	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/31/24 14:14	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/31/24 14:14	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/31/24 14:14	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/31/24 14:14	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/31/24 14:14	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/31/24 14:14	1
Toluene	0.0416		0.00100	0.000475 mg/L			01/31/24 14:14	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			01/31/24 14:14	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 01/29/24 14:50
Date Received: 01/30/24 15:15

Lab Sample ID: 880-38670-1
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			01/31/24 14:14	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			01/31/24 14:14	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			01/31/24 14:14	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			01/31/24 14:14	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			01/31/24 14:14	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			01/31/24 14:14	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			01/31/24 14:14	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			01/31/24 14:14	1
1,2,4-Trimethylbenzene	0.0245		0.00100	0.000417	mg/L			01/31/24 14:14	1
1,3,5-Trimethylbenzene	0.00749		0.00100	0.000411	mg/L			01/31/24 14:14	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			01/31/24 14:14	1
Xylenes, Total	0.115		0.0100	0.00124	mg/L			01/31/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 124					01/31/24 14:14	1
Dibromofluoromethane (Surr)	96		75 - 131					01/31/24 14:14	1
1,2-Dichloroethane-d4 (Surr)	99		63 - 144					01/31/24 14:14	1
Toluene-d8 (Surr)	104		80 - 120					01/31/24 14:14	1

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.560		0.500	0.0711	mg/L			01/31/24 13:26	1
Nitrate as N	0.123	H	0.100	0.0391	mg/L			02/02/24 02:58	1
Chloride	297		0.500	0.250	mg/L			01/31/24 13:26	1
Nitrite as N	0.704	B	0.100	0.0293	mg/L			01/31/24 13:26	1
Fluoride	<0.100	U	0.500	0.100	mg/L			01/31/24 13:26	1
Sulfate	32.4		0.500	0.200	mg/L			01/31/24 13:26	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Calcium	432		10.0	5.76	mg/L		02/01/24 09:30	02/01/24 15:39	50
Magnesium	68.6		0.200	0.0428	mg/L		02/01/24 09:30	02/01/24 15:21	1
Potassium	6.12		0.500	0.0914	mg/L		02/01/24 09:30	02/01/24 15:21	1
Sodium	135		0.500	0.152	mg/L		02/01/24 09:30	02/01/24 15:21	1
SiO2	70.0		1.07	0.471	mg/L		02/01/24 09:30	02/01/24 15:21	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance (SM 1030E)	1.85				%			02/06/24 19:46	1
Alkalinity (SM 2320B)	1030		4.00	4.00	mg/L			02/01/24 16:12	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1030		4.00	4.00	mg/L			02/01/24 16:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			02/01/24 16:12	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			02/01/24 16:12	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			02/01/24 16:12	1
Total Dissolved Solids (SM 2540C)	1750		20.0	20.0	mg/L			02/02/24 13:46	1
pH (SM 4500 H+ B)	6.2	HF			SU			02/01/24 17:17	1
Temperature (SM 4500 H+ B)	20.4	HF			Degrees C			02/01/24 17:17	1

Surrogate Summary

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

Job ID: 880-38670-1
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)
880-38670-1	Levey Well	96	96	99	104
LCS 860-142967/3	Lab Control Sample	98	97	98	100
LCSD 860-142967/4	Lab Control Sample Dup	96	98	97	100
MB 860-142967/10	Method Blank	93	98	102	102
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: 880-38670-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-142967/10

Matrix: Water

Analysis Batch: 142967

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			01/31/24 10:49	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/31/24 10:49	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/31/24 10:49	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/31/24 10:49	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/31/24 10:49	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/31/24 10:49	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/31/24 10:49	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/31/24 10:49	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/31/24 10:49	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/31/24 10:49	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/31/24 10:49	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/31/24 10:49	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/31/24 10:49	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/31/24 10:49	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/31/24 10:49	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/31/24 10:49	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/31/24 10:49	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/31/24 10:49	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/31/24 10:49	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/31/24 10:49	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/31/24 10:49	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/31/24 10:49	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/31/24 10:49	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/31/24 10:49	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/31/24 10:49	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/31/24 10:49	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/31/24 10:49	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/31/24 10:49	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/31/24 10:49	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/31/24 10:49	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			01/31/24 10:49	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/31/24 10:49	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			01/31/24 10:49	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/31/24 10:49	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			01/31/24 10:49	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/31/24 10:49	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/31/24 10:49	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/31/24 10:49	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			01/31/24 10:49	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			01/31/24 10:49	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			01/31/24 10:49	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/31/24 10:49	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/31/24 10:49	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/31/24 10:49	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/31/24 10:49	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/31/24 10:49	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/31/24 10:49	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			01/31/24 10:49	1

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QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

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

Lab Sample ID: MB 860-142967/10

Matrix: Water

Analysis Batch: 142967

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		01/31/24 10:49	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		01/31/24 10:49	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		01/31/24 10:49	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		01/31/24 10:49	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		01/31/24 10:49	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		01/31/24 10:49	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		01/31/24 10:49	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		01/31/24 10:49	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		01/31/24 10:49	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		01/31/24 10:49	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		01/31/24 10:49	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		01/31/24 10:49	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		01/31/24 10:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 124		01/31/24 10:49	1
Dibromofluoromethane (Surr)	98		75 - 131		01/31/24 10:49	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		01/31/24 10:49	1
Toluene-d8 (Surr)	102		80 - 120		01/31/24 10:49	1

Lab Sample ID: LCS 860-142967/3

Matrix: Water

Analysis Batch: 142967

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	0.05086		mg/L		102	75 - 125
Bromobenzene	0.0500	0.05170		mg/L		103	75 - 125
Bromochloromethane	0.0500	0.05150		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05194		mg/L		104	75 - 125
Bromoform	0.0500	0.05335		mg/L		107	70 - 130
Bromomethane	0.0500	0.05324		mg/L		106	60 - 140
2-Butanone	0.250	0.2224		mg/L		89	60 - 140
Carbon tetrachloride	0.0500	0.04973		mg/L		99	70 - 125
Chlorobenzene	0.0500	0.05165		mg/L		103	82 - 135
Chloroethane	0.0500	0.05553		mg/L		111	60 - 140
Chloroform	0.0500	0.05046		mg/L		101	70 - 121
Chloromethane	0.0500	0.05590		mg/L		112	60 - 140
2-Chlorotoluene	0.0500	0.05117		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05151		mg/L		103	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05083		mg/L		102	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05208		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.05406		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04988		mg/L		100	59 - 125
1,2-Dibromoethane	0.0500	0.05171		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05234		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05130		mg/L		103	75 - 125
1,4-Dichlorobenzene	0.0500	0.05007		mg/L		100	75 - 125
Dichlorodifluoromethane	0.0500	0.07290		mg/L		146	50 - 150

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QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

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

Lab Sample ID: LCS 860-142967/3

Matrix: Water

Analysis Batch: 142967

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	0.05407		mg/L		108	71 - 130
1,2-Dichloroethane	0.0500	0.05012		mg/L		100	72 - 130
1,1-Dichloroethene	0.0500	0.04880		mg/L		98	50 - 150
1,2-Dichloropropane	0.0500	0.05132		mg/L		103	74 - 125
1,3-Dichloropropane	0.0500	0.05096		mg/L		102	75 - 125
2,2-Dichloropropane	0.0500	0.05196		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04819		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.05218		mg/L		104	75 - 125
Hexachlorobutadiene	0.0500	0.05261		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.05338		mg/L		107	75 - 125
Methylene Chloride	0.0500	0.04869		mg/L		97	71 - 125
m,p-Xylenes	0.0500	0.05260		mg/L		105	75 - 125
MTBE	0.0500	0.05339		mg/L		107	65 - 135
Naphthalene	0.0500	0.05250		mg/L		105	70 - 130
n-Butylbenzene	0.0500	0.05032		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.05125		mg/L		102	75 - 125
o-Xylene	0.0500	0.05309		mg/L		106	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05270		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05170		mg/L		103	75 - 125
Styrene	0.0500	0.05373		mg/L		107	75 - 125
tert-Butylbenzene	0.0500	0.05250		mg/L		105	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05310		mg/L		106	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05092		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.05092		mg/L		102	71 - 125
Toluene	0.0500	0.05116		mg/L		102	75 - 130
trans-1,2-Dichloroethene	0.0500	0.05124		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05246		mg/L		105	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05105		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05150		mg/L		103	75 - 135
1,1,1-Trichloroethane	0.0500	0.04975		mg/L		100	70 - 130
1,1,2-Trichloroethane	0.0500	0.05137		mg/L		103	75 - 130
Trichloroethene	0.0500	0.05179		mg/L		104	75 - 135
Trichlorofluoromethane	0.0500	0.05746		mg/L		115	60 - 140
1,2,3-Trichloropropane	0.0500	0.04976		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05295		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05272		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.05535		mg/L		111	60 - 140
	LCS LCS						
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		74 - 124				
Dibromofluoromethane (Surr)	97		75 - 131				
1,2-Dichloroethane-d4 (Surr)	98		63 - 144				
Toluene-d8 (Surr)	100		80 - 120				

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QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-142967/4

Matrix: Water

Analysis Batch: 142967

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	0.04811		mg/L		96	75 - 125	6	25
Bromobenzene	0.0500	0.04798		mg/L		96	75 - 125	7	25
Bromochloromethane	0.0500	0.05000		mg/L		100	60 - 140	3	25
Bromodichloromethane	0.0500	0.04925		mg/L		98	75 - 125	5	25
Bromoform	0.0500	0.05093		mg/L		102	70 - 130	5	25
Bromomethane	0.0500	0.05075		mg/L		101	60 - 140	5	25
2-Butanone	0.250	0.2201		mg/L		88	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04730		mg/L		95	70 - 125	5	25
Chlorobenzene	0.0500	0.04878		mg/L		98	82 - 135	6	25
Chloroethane	0.0500	0.05274		mg/L		105	60 - 140	5	25
Chloroform	0.0500	0.04809		mg/L		96	70 - 121	5	25
Chloromethane	0.0500	0.05344		mg/L		107	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04674		mg/L		93	73 - 125	9	25
4-Chlorotoluene	0.0500	0.04715		mg/L		94	74 - 125	9	25
cis-1,2-Dichloroethene	0.0500	0.04859		mg/L		97	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.04898		mg/L		98	74 - 125	6	25
Dibromochloromethane	0.0500	0.05023		mg/L		100	73 - 125	7	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04708		mg/L		94	59 - 125	6	25
1,2-Dibromoethane	0.0500	0.04924		mg/L		98	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04789		mg/L		96	75 - 125	9	25
1,3-Dichlorobenzene	0.0500	0.04722		mg/L		94	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.04634		mg/L		93	75 - 125	8	25
Dichlorodifluoromethane	0.0500	0.06999		mg/L		140	50 - 150	4	25
1,1-Dichloroethane	0.0500	0.05159		mg/L		103	71 - 130	5	25
1,2-Dichloroethane	0.0500	0.04746		mg/L		95	72 - 130	5	25
1,1-Dichloroethene	0.0500	0.04623		mg/L		92	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04899		mg/L		98	74 - 125	5	25
1,3-Dichloropropane	0.0500	0.04837		mg/L		97	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.04900		mg/L		98	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04735		mg/L		95	75 - 125	2	25
Ethylbenzene	0.0500	0.04923		mg/L		98	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.04810		mg/L		96	75 - 125	9	25
Isopropylbenzene	0.0500	0.05053		mg/L		101	75 - 125	5	25
Methylene Chloride	0.0500	0.04637		mg/L		93	71 - 125	5	25
m,p-Xylenes	0.0500	0.04963		mg/L		99	75 - 125	6	25
MTBE	0.0500	0.05168		mg/L		103	65 - 135	3	25
Naphthalene	0.0500	0.04827		mg/L		97	70 - 130	8	25
n-Butylbenzene	0.0500	0.04603		mg/L		92	75 - 125	9	25
N-Propylbenzene	0.0500	0.04710		mg/L		94	75 - 125	8	25
o-Xylene	0.0500	0.04984		mg/L		100	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04832		mg/L		97	75 - 125	9	25
sec-Butylbenzene	0.0500	0.04775		mg/L		95	75 - 125	8	25
Styrene	0.0500	0.05076		mg/L		102	75 - 125	6	25
tert-Butylbenzene	0.0500	0.04844		mg/L		97	75 - 125	8	25
1,1,1,2-Tetrachloroethane	0.0500	0.05027		mg/L		101	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.04696		mg/L		94	74 - 125	8	25
Tetrachloroethene	0.0500	0.04874		mg/L		97	71 - 125	4	25
Toluene	0.0500	0.04870		mg/L		97	75 - 130	5	25

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QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-142967/4
Matrix: Water
Analysis Batch: 142967

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	0.04917		mg/L		98	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.04909		mg/L		98	66 - 125	7	25
1,2,3-Trichlorobenzene	0.0500	0.04677		mg/L		94	75 - 137	9	25
1,2,4-Trichlorobenzene	0.0500	0.04675		mg/L		93	75 - 135	10	25
1,1,1-Trichloroethane	0.0500	0.04742		mg/L		95	70 - 130	5	25
1,1,2-Trichloroethane	0.0500	0.04910		mg/L		98	75 - 130	5	25
Trichloroethene	0.0500	0.04900		mg/L		98	75 - 135	6	25
Trichlorofluoromethane	0.0500	0.05201		mg/L		104	60 - 140	10	25
1,2,3-Trichloropropane	0.0500	0.04514		mg/L		90	75 - 125	10	25
1,2,4-Trimethylbenzene	0.0500	0.04916		mg/L		98	75 - 125	7	25
1,3,5-Trimethylbenzene	0.0500	0.04852		mg/L		97	60 - 140	8	25
Vinyl chloride	0.0500	0.05189		mg/L		104	60 - 140	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	100		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-142803/100
Matrix: Water
Analysis Batch: 142803

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			01/31/24 11:16	1
Chloride	<0.250	U	0.500	0.250 mg/L			01/31/24 11:16	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/31/24 11:16	1
Sulfate	<0.200	U	0.500	0.200 mg/L			01/31/24 11:16	1

Lab Sample ID: MB 860-142803/13
Matrix: Water
Analysis Batch: 142803

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			01/30/24 14:48	1
Chloride	<0.250	U	0.500	0.250 mg/L			01/30/24 14:48	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/30/24 14:48	1
Sulfate	<0.200	U	0.500	0.200 mg/L			01/30/24 14:48	1

Lab Sample ID: LCS 860-142803/101
Matrix: Water
Analysis Batch: 142803

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	9.625		mg/L		96	90 - 110
Chloride	10.0	9.911		mg/L		99	90 - 110
Fluoride	10.0	10.09		mg/L		101	90 - 110

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QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-142803/101
Matrix: Water
Analysis Batch: 142803

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.815		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-142803/102
Matrix: Water
Analysis Batch: 142803

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	9.380		mg/L		94	90 - 110	3	20
Chloride	10.0	9.689		mg/L		97	90 - 110	2	20
Fluoride	10.0	9.881		mg/L		99	90 - 110	2	20
Sulfate	10.0	9.604		mg/L		96	90 - 110	2	20

Lab Sample ID: LLCS 860-142803/17
Matrix: Water
Analysis Batch: 142803

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	0.5775		mg/L		115	50 - 150
Chloride	0.500	0.5429		mg/L		109	50 - 150
Fluoride	0.500	0.4933	J	mg/L		99	50 - 150
Sulfate	0.500	0.4476	J	mg/L		90	50 - 150

Lab Sample ID: MB 860-142804/100
Matrix: Water
Analysis Batch: 142804

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.03414	J	0.100	0.0293 mg/L			01/31/24 11:16	1

Lab Sample ID: LCS 860-142804/101
Matrix: Water
Analysis Batch: 142804

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	10.0	9.995		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-142804/102
Matrix: Water
Analysis Batch: 142804

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
Nitrite as N	10.0	9.782		mg/L		98	80 - 120	2	20

Lab Sample ID: MB 860-143301/13
Matrix: Water
Analysis Batch: 143301

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			02/01/24 18:34	1
Chloride	<0.250	U	0.500	0.250 mg/L			02/01/24 18:34	1

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QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-143301/13

Matrix: Water

Analysis Batch: 143301

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.100	U	0.500	0.100 mg/L			02/01/24 18:34	1
Sulfate	<0.200	U	0.500	0.200 mg/L			02/01/24 18:34	1

Lab Sample ID: LCS 860-143301/14

Matrix: Water

Analysis Batch: 143301

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	9.292		mg/L		93	90 - 110
Chloride	10.0	9.607		mg/L		96	90 - 110
Fluoride	10.0	10.20		mg/L		102	90 - 110
Sulfate	10.0	9.549		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-143301/15

Matrix: Water

Analysis Batch: 143301

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	9.279		mg/L		93	90 - 110	0	20
Chloride	10.0	9.604		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.15		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.524		mg/L		95	90 - 110	0	20

Lab Sample ID: LLCS 860-143301/7

Matrix: Water

Analysis Batch: 143301

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	0.4587	J	mg/L		92	50 - 150
Chloride	0.500	0.5500		mg/L		110	50 - 150
Fluoride	0.500	0.5492		mg/L		110	50 - 150
Sulfate	0.500	0.4538	J	mg/L		91	50 - 150

Lab Sample ID: MB 860-143302/13

Matrix: Water

Analysis Batch: 143302

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			02/01/24 18:34	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			02/01/24 18:34	1

Lab Sample ID: LCS 860-143302/14

Matrix: Water

Analysis Batch: 143302

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	9.688		mg/L		97	80 - 120
Nitrite as N	10.0	9.104		mg/L		91	80 - 120

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QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-143302/15				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 143302										
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Nitrate as N	10.0	9.677		mg/L		97	80 - 120	0	20	
Nitrite as N	10.0	9.113		mg/L		91	80 - 120	0	20	

Lab Sample ID: LLCS 860-143302/6				Client Sample ID: Lab Control Sample						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 143302										
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits			
Nitrate as N	0.100	0.1133		mg/L		113	50 - 150			
Nitrite as N	0.100	0.09832	J	mg/L		98	50 - 150			

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-143225/1-A				Client Sample ID: Method Blank						
Matrix: Water				Prep Type: Total Recoverable						
Analysis Batch: 143439				Prep Batch: 143225						
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Calcium	<0.115	U	0.200	0.115 mg/L		02/01/24 09:30	02/01/24 15:46	1		
Magnesium	<0.0428	U	0.200	0.0428 mg/L		02/01/24 09:30	02/01/24 15:46	1		
Potassium	<0.0914	U	0.500	0.0914 mg/L		02/01/24 09:30	02/01/24 15:46	1		
Sodium	<0.152	U	0.500	0.152 mg/L		02/01/24 09:30	02/01/24 15:46	1		
SiO2	<0.471	U	1.07	0.471 mg/L		02/01/24 09:30	02/01/24 15:46	1		

Lab Sample ID: LCS 860-143225/2-A				Client Sample ID: Lab Control Sample						
Matrix: Water				Prep Type: Total Recoverable						
Analysis Batch: 143439				Prep Batch: 143225						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Calcium	25.0	27.20		mg/L		109	85 - 115			
Magnesium	25.0	25.50		mg/L		102	85 - 115			
Potassium	10.0	10.30		mg/L		103	85 - 115			
Sodium	25.0	26.60		mg/L		106	85 - 115			
SiO2	21.4	21.83		mg/L		102	85 - 115			

Lab Sample ID: LCSD 860-143225/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total Recoverable						
Analysis Batch: 143439				Prep Batch: 143225						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Calcium	25.0	26.90		mg/L		108	85 - 115	1	20	
Magnesium	25.0	25.30		mg/L		101	85 - 115	1	20	
Potassium	10.0	10.20		mg/L		102	85 - 115	1	20	
Sodium	25.0	26.40		mg/L		106	85 - 115	1	20	
SiO2	21.4	21.61		mg/L		101	85 - 115	1	20	

QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

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

Lab Sample ID: LLCS 860-143225/4-A
Matrix: Water
Analysis Batch: 143439

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 143225

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Calcium	0.200	0.2340		mg/L		117	50 - 150	
Magnesium	0.200	0.2190		mg/L		110	50 - 150	
Potassium	0.500	0.3690	J	mg/L		74	50 - 150	
Sodium	0.500	0.5500		mg/L		110	50 - 150	
SiO2	1.07	1.036	J	mg/L		97	50 - 150	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-143443/3
Matrix: Water
Analysis Batch: 143443

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			02/01/24 14:56	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			02/01/24 14:56	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	mg/L			02/01/24 14:56	1
Hydroxide Alkalinity	<4.00	U	4.00	mg/L			02/01/24 14:56	1
Phenolphthalein Alkalinity	<4.00	U	4.00	mg/L			02/01/24 14:56	1

Lab Sample ID: LCS 860-143443/4
Matrix: Water
Analysis Batch: 143443

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Alkalinity	250	252.9		mg/L		101	85 - 115	

Lab Sample ID: LCSD 860-143443/5
Matrix: Water
Analysis Batch: 143443

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Alkalinity	250	254.8		mg/L		102	85 - 115	1	20

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

Lab Sample ID: MB 860-143539/1
Matrix: Water
Analysis Batch: 143539

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			02/02/24 13:46	1

Lab Sample ID: LCS 860-143539/2
Matrix: Water
Analysis Batch: 143539

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	991.0		mg/L		99	80 - 120	

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QC Sample Results

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

Job ID: 880-38670-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 860-143539/3				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 143539											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Total Dissolved Solids	1000	1001		mg/L		100	80 - 120	1	10		

Lab Sample ID: LLCS 860-143539/26				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 143539											
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits				
Total Dissolved Solids	5.00	5.500		mg/L		110	50 - 150				

QC Association Summary

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

Job ID: 880-38670-1
SDG: Hobbs NM

GC/MS VOA

Analysis Batch: 142967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total/NA	Water	8260C	
MB 860-142967/10	Method Blank	Total/NA	Water	8260C	
LCS 860-142967/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-142967/4	Lab Control Sample Dup	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 142803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total/NA	Water	300.0	
MB 860-142803/100	Method Blank	Total/NA	Water	300.0	
MB 860-142803/13	Method Blank	Total/NA	Water	300.0	
LCS 860-142803/101	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-142803/102	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-142803/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 142804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total/NA	Water	300.0	
MB 860-142804/100	Method Blank	Total/NA	Water	300.0	
LCS 860-142804/101	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-142804/102	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 143301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-143301/13	Method Blank	Total/NA	Water	300.0	
LCS 860-143301/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-143301/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-143301/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 143302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total/NA	Water	300.0	
MB 860-143302/13	Method Blank	Total/NA	Water	300.0	
LCS 860-143302/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-143302/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-143302/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 143225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total Recoverable	Water	200.7	
MB 860-143225/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-143225/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-143225/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 860-143225/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 143439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	143225
880-38670-1	Levey Well	Total Recoverable	Water	200.7 Rev 4.4	143225

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QC Association Summary

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

Job ID: 880-38670-1
SDG: Hobbs NM

Metals (Continued)

Analysis Batch: 143439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-143225/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	143225
LCS 860-143225/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	143225
LCSD 860-143225/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	143225
LLCS 860-143225/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	143225

General Chemistry

Analysis Batch: 142715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total/NA	Water	SM 1030E	

Analysis Batch: 143356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 143443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total/NA	Water	SM 2320B	
MB 860-143443/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-143443/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-143443/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 143539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38670-1	Levey Well	Total/NA	Water	SM 2540C	
MB 860-143539/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-143539/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-143539/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-143539/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

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

Job ID: 880-38670-1
SDG: Hobbs NM

Client Sample ID: Levey Well
Date Collected: 01/29/24 14:50
Date Received: 01/30/24 15:15

Lab Sample ID: 880-38670-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	142967	NA	EET HOU	01/31/24 14:14
Total/NA	Analysis	300.0		1	142803	RBNS	EET HOU	01/31/24 13:26
Total/NA	Analysis	300.0		1	142804	RBNS	EET HOU	01/31/24 13:26
Total/NA	Analysis	300.0		1	143302	RBNS	EET HOU	02/02/24 02:58
Total Recoverable	Prep	200.7			143225	MD	EET HOU	02/01/24 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	143439	JDM	EET HOU	02/01/24 15:21
Total Recoverable	Prep	200.7			143225	MD	EET HOU	02/01/24 09:30
Total Recoverable	Analysis	200.7 Rev 4.4		50	143439	JDM	EET HOU	02/01/24 15:39
Total/NA	Analysis	SM 1030E		1	142715	MC	EET HOU	02/06/24 19:46
Total/NA	Analysis	SM 2320B		1	143443	KEG	EET HOU	02/01/24 16:12
Total/NA	Analysis	SM 2540C		1	143539	YG	EET HOU	02/02/24 13:46
Total/NA	Analysis	SM 4500 H+ B		1	143356	ALL	EET HOU	02/01/24 17:17

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: 880-38670-1
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: 880-38670-1
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: 880-38670-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38670-1	Levey Well	Water	01/29/24 14:50	01/30/24 15:15

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Houston, TX (281) 240-4200 Dallas, TX (214) 802-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915)555-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-382-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa, FL (813-444-4444)

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

880-386770 Chain of Custody

Program: US ... ☐ RRR ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other ☐

[illegible][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
1 ~~[Signature]~~	[Signature]	1/30/24	2		
3 [Signature]	[Signature]		4		
	[Signature]	3:15	6		
5					

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Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
Company: Eurofins Environment Testing South Cent

Sampler: Kramer Jessica
Phone: Jessica.Kramer@et.eurofins.com

Lab P#: 880-9065 1
E-Mail: Jessica.Kramer@et.eurofins.com

Carrier Tracking No(s):
State of Origin: New Mexico

Page: 1 of 1
Job #: 880-38670-1

Address: 4145 Greenbriar Dr

Due Date Requested: 2/1/2024

Accreditations Required (See note): NELAP Texas

City: Stafford

TAT Requested (days):

Analysis Requested

State, Zip: TX 77477

PO #:

Project Name: Levey Well Hobbs, NM 03B1417001

Project #: 88000024

Site: SSO#:

Phone: 281-240-4200 (Tel)

WO #:

Sample Date: 1/29/24

Sample Time: 14:50

Sample Type: Water

Sample Type: (W=water, S=solid, O=wastewater, B=biomass, A=air)

Email: Project Name: Levey Well Hobbs, NM 03B1417001

Project #: 88000024

SSO#:

Sample Date: 1/29/24

Sample Time: 14:50

Sample Type: Water

Sample Type: (W=water, S=solid, O=wastewater, B=biomass, A=air)

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Project #: 88000024

SSO#:

Sample Date: 1/29/24

Sample Time: 14:50

Sample Type: Water

Sample Type: (W=water, S=solid, O=wastewater, B=biomass, A=air)

Site: SSO#:

WO #:

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Sample Time: 14:50

Sample Type: Water

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Sample Type: (W=water, S=solid, O=wastewater, B=biomass, A=air)

Sample Identification - Client ID (Lab ID)

Sample Date: 1/29/24

Sample Time: 14:50

Sample Type: Water

Sample Date: 1/29/24

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Levey Well (880-38670-1)

Sample Date: 1/29/24

Sample Time: 14:50

Sample Type: Water

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Sample Time: 14:50

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Sample Time: 14:50

Sample Type: Water

Sample Type: (W=water, S=solid, O=wastewater, B=biomass, A=air)

Sample Type: (W=water, S=solid, O=wastewater, B=biomass, A=air)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-38670-1

SDG Number: Hobbs NM

Login Number: 38670

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-38670-1

SDG Number: Hobbs NM

Login Number: 38670

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 01/31/24 10:59 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/9/2024 12:03:31 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-37407-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

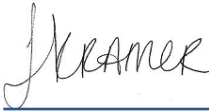
Eurofins Midland

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
1/9/2024 12:03:31 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: 880-37407-1

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	21
Lab Chronicle	23
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

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Definitions/Glossary

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

Job ID: 880-37407-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: South Hobbs - 03B1417002

Job ID: 880-37407-1

Job ID: 880-37407-1

Eurofins Midland

Job Narrative 880-37407-1

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 1/2/2024 3:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-139047 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-139047 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.

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-37407-1

Date Collected: 01/02/24 11:55

Matrix: Water

Date Received: 01/02/24 15:48

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		01/04/24 11:41	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/04/24 11:41	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/04/24 11:41	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/04/24 11:41	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/04/24 11:41	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/04/24 11:41	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/04/24 11:41	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/04/24 11:41	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/04/24 11:41	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/04/24 11:41	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/04/24 11:41	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/04/24 11:41	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/04/24 11:41	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/04/24 11:41	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/04/24 11:41	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/04/24 11:41	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/04/24 11:41	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/04/24 11:41	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/04/24 11:41	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/04/24 11:41	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/04/24 11:41	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/04/24 11:41	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/04/24 11:41	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/04/24 11:41	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/04/24 11:41	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/04/24 11:41	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/04/24 11:41	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/04/24 11:41	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/04/24 11:41	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/04/24 11:41	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		01/04/24 11:41	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/04/24 11:41	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		01/04/24 11:41	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		01/04/24 11:41	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		01/04/24 11:41	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/04/24 11:41	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/04/24 11:41	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/04/24 11:41	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		01/04/24 11:41	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		01/04/24 11:41	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/04/24 11:41	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/04/24 11:41	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/04/24 11:41	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/04/24 11:41	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/04/24 11:41	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/04/24 11:41	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/04/24 11:41	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		01/04/24 11:41	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		01/04/24 11:41	1

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Client Sample Results

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

Job ID: 880-37407-1

Client Sample ID: MW-1

Lab Sample ID: 880-37407-1

Date Collected: 01/02/24 11:55

Matrix: Water

Date Received: 01/02/24 15:48

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			01/04/24 11:41	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/04/24 11:41	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/04/24 11:41	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/04/24 11:41	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/04/24 11:41	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/04/24 11:41	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/04/24 11:41	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/04/24 11:41	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			01/04/24 11:41	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			01/04/24 11:41	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/04/24 11:41	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			01/04/24 11:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124				01/04/24 11:41	1
Dibromofluoromethane (Surr)	97		75 - 131				01/04/24 11:41	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 144				01/04/24 11:41	1
Toluene-d8 (Surr)	110		80 - 120				01/04/24 11:41	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	5.19	1.03 mg/L			01/06/24 19:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.03	U	5.19	1.03 mg/L		01/05/24 10:21	01/06/24 19:45	1
Diesel Range Organics (Over C10-C28)	<1.03	U	5.19	1.03 mg/L		01/05/24 10:21	01/06/24 19:45	1
Oil Range Organics (Over C28-C36)	<0.990	U	5.19	0.990 mg/L		01/05/24 10:21	01/06/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135			01/05/24 10:21	01/06/24 19:45	1
o-Terphenyl	87		70 - 135			01/05/24 10:21	01/06/24 19:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		0.500	0.250 mg/L			01/04/24 00:50	1
Nitrate as N	<0.0391	U	0.100	0.0391 mg/L			01/04/24 00:50	1
Fluoride	0.427 J		0.500	0.100 mg/L			01/04/24 00:50	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/04/24 00:50	1
Sulfate	110		0.500	0.200 mg/L			01/04/24 00:50	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	917		4.00	4.00 mg/L			01/04/24 18:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	917		4.00	4.00 mg/L			01/04/24 18:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/04/24 18:28	1
Carbon dioxide (SM 4500 CO2 D)	1170			mg/L			01/08/24 12:05	1

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Client Sample Results

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

Job ID: 880-37407-1

Client Sample ID: MW-1
Date Collected: 01/02/24 11:55
Date Received: 01/02/24 15:48

Lab Sample ID: 880-37407-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	366				mg/L			01/08/24 12:05	1
pH (SM 4500 H+ B)	6.7	HF			SU			01/04/24 13:03	1
Temperature (SM 4500 H+ B)	12.6	HF			Degrees C			01/04/24 13:03	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			01/05/24 13:05	1

Client Sample ID: MW-2
Date Collected: 01/02/24 10:55
Date Received: 01/02/24 15:48

Lab Sample ID: 880-37407-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0156		0.00100	0.000460	mg/L			01/04/24 12:01	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L			01/04/24 12:01	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L			01/04/24 12:01	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			01/04/24 12:01	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			01/04/24 12:01	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			01/04/24 12:01	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L			01/04/24 12:01	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			01/04/24 12:01	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L			01/04/24 12:01	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			01/04/24 12:01	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L			01/04/24 12:01	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			01/04/24 12:01	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L			01/04/24 12:01	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L			01/04/24 12:01	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L			01/04/24 12:01	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			01/04/24 12:01	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L			01/04/24 12:01	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L			01/04/24 12:01	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L			01/04/24 12:01	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L			01/04/24 12:01	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L			01/04/24 12:01	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L			01/04/24 12:01	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L			01/04/24 12:01	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			01/04/24 12:01	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L			01/04/24 12:01	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			01/04/24 12:01	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L			01/04/24 12:01	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L			01/04/24 12:01	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L			01/04/24 12:01	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L			01/04/24 12:01	1
Ethylbenzene	0.0224		0.00100	0.000385	mg/L			01/04/24 12:01	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L			01/04/24 12:01	1
Isopropylbenzene	0.0118		0.00100	0.000592	mg/L			01/04/24 12:01	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			01/04/24 12:01	1
m,p-Xylenes	0.0540		0.0100	0.00124	mg/L			01/04/24 12:01	1

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Client Sample Results

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

Job ID: 880-37407-1

Client Sample ID: MW-2

Lab Sample ID: 880-37407-2

Date Collected: 01/02/24 10:55

Matrix: Water

Date Received: 01/02/24 15:48

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			01/04/24 12:01	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			01/04/24 12:01	1
n-Butylbenzene	0.00105		0.00100	0.000510	mg/L			01/04/24 12:01	1
N-Propylbenzene	0.00367		0.00100	0.000429	mg/L			01/04/24 12:01	1
o-Xylene	0.0173		0.00100	0.000502	mg/L			01/04/24 12:01	1
p-Cymene (p-Isopropyltoluene)	0.00109		0.00100	0.000676	mg/L			01/04/24 12:01	1
sec-Butylbenzene	0.00156		0.00100	0.000468	mg/L			01/04/24 12:01	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			01/04/24 12:01	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			01/04/24 12:01	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			01/04/24 12:01	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			01/04/24 12:01	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			01/04/24 12:01	1
Toluene	0.00295		0.00100	0.000475	mg/L			01/04/24 12:01	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			01/04/24 12:01	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			01/04/24 12:01	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			01/04/24 12:01	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			01/04/24 12:01	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			01/04/24 12:01	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			01/04/24 12:01	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			01/04/24 12:01	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			01/04/24 12:01	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			01/04/24 12:01	1
1,2,4-Trimethylbenzene	0.0354		0.00100	0.000417	mg/L			01/04/24 12:01	1
1,3,5-Trimethylbenzene	0.00922		0.00100	0.000411	mg/L			01/04/24 12:01	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			01/04/24 12:01	1
Xylenes, Total	0.0713		0.0100	0.00124	mg/L			01/04/24 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		74 - 124					01/04/24 12:01	1
Dibromofluoromethane (Surr)	94		75 - 131					01/04/24 12:01	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144					01/04/24 12:01	1
Toluene-d8 (Surr)	110		80 - 120					01/04/24 12:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2.21	J	5.23	1.03	mg/L			01/06/24 20:46	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	2.21	J	5.23	1.03	mg/L		01/05/24 10:21	01/06/24 20:46	1
Diesel Range Organics (Over C10-C28)	<1.03	U	5.23	1.03	mg/L		01/05/24 10:21	01/06/24 20:46	1
Oil Range Organics (Over C28-C36)	<0.997	U	5.23	0.997	mg/L		01/05/24 10:21	01/06/24 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135				01/05/24 10:21	01/06/24 20:46	1
o-Terphenyl	89		70 - 135				01/05/24 10:21	01/06/24 20:46	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-37407-2

Date Collected: 01/02/24 10:55

Matrix: Water

Date Received: 01/02/24 15:48

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.9		0.500	0.250	mg/L			01/03/24 22:52	1
Nitrate as N	0.302		0.100	0.0391	mg/L			01/03/24 22:52	1
Fluoride	0.173	J	0.500	0.100	mg/L			01/03/24 22:52	1
Nitrite as N	0.345		0.100	0.0293	mg/L			01/03/24 22:52	1
Sulfate	81.5		0.500	0.200	mg/L			01/03/24 22:52	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1320		4.00	4.00	mg/L			01/04/24 18:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1320		4.00	4.00	mg/L			01/04/24 18:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/04/24 18:44	1
Carbon dioxide (SM 4500 CO2 D)	2840				mg/L			01/08/24 12:05	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1670				mg/L			01/08/24 12:05	1
pH (SM 4500 H+ B)	6.2	HF			SU			01/04/24 13:05	1
Temperature (SM 4500 H+ B)	12.8	HF			Degrees C			01/04/24 13:05	1

Surrogate Summary

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

Job ID: 880-37407-1

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)
880-37407-1	MW-1	105	97	106	110
880-37407-2	MW-2	105	94	107	110
LCS 860-139100/3	Lab Control Sample	102	98	100	111
LCSD 860-139100/4	Lab Control Sample Dup	102	98	99	110
MB 860-139100/9	Method Blank	107	98	107	110
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)
880-37407-1	MW-1	90	87
880-37407-2	MW-2	89	89
LCS 860-139337/2-A	Lab Control Sample	103	89
LCSD 860-139337/3-A	Lab Control Sample Dup	96	85
MB 860-139337/1-A	Method Blank	82	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-139100/9

Matrix: Water

Analysis Batch: 139100

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.000460	U	0.00100	0.000460	mg/L		01/04/24 10:39	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/04/24 10:39	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/04/24 10:39	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/04/24 10:39	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/04/24 10:39	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/04/24 10:39	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/04/24 10:39	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/04/24 10:39	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/04/24 10:39	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/04/24 10:39	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/04/24 10:39	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/04/24 10:39	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/04/24 10:39	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/04/24 10:39	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/04/24 10:39	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/04/24 10:39	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/04/24 10:39	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/04/24 10:39	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/04/24 10:39	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/04/24 10:39	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/04/24 10:39	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/04/24 10:39	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/04/24 10:39	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/04/24 10:39	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/04/24 10:39	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/04/24 10:39	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/04/24 10:39	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/04/24 10:39	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/04/24 10:39	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/04/24 10:39	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		01/04/24 10:39	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/04/24 10:39	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		01/04/24 10:39	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		01/04/24 10:39	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		01/04/24 10:39	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/04/24 10:39	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/04/24 10:39	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/04/24 10:39	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		01/04/24 10:39	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		01/04/24 10:39	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/04/24 10:39	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/04/24 10:39	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/04/24 10:39	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/04/24 10:39	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/04/24 10:39	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/04/24 10:39	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/04/24 10:39	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		01/04/24 10:39	1

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QC Sample Results

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-139100/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 139100

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		01/04/24 10:39	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		01/04/24 10:39	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		01/04/24 10:39	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		01/04/24 10:39	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		01/04/24 10:39	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		01/04/24 10:39	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		01/04/24 10:39	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		01/04/24 10:39	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		01/04/24 10:39	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		01/04/24 10:39	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		01/04/24 10:39	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		01/04/24 10:39	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		01/04/24 10:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	107		74 - 124		01/04/24 10:39	1
Dibromofluoromethane (Surr)	98		75 - 131		01/04/24 10:39	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		01/04/24 10:39	1
Toluene-d8 (Surr)	110		80 - 120		01/04/24 10:39	1

Lab Sample ID: LCS 860-139100/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 139100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05442		mg/L		109	75 - 125
Bromobenzene	0.0500	0.05871		mg/L		117	75 - 125
Bromochloromethane	0.0500	0.05101		mg/L		102	60 - 140
Bromodichloromethane	0.0500	0.05387		mg/L		108	75 - 125
Bromoform	0.0500	0.06067		mg/L		121	70 - 130
Bromomethane	0.0500	0.04538		mg/L		91	60 - 140
2-Butanone	0.250	0.2400		mg/L		96	60 - 140
Carbon tetrachloride	0.0500	0.05243		mg/L		105	70 - 125
Chlorobenzene	0.0500	0.05748		mg/L		115	82 - 135
Chloroethane	0.0500	0.04405		mg/L		88	60 - 140
Chloroform	0.0500	0.05268		mg/L		105	70 - 121
Chloromethane	0.0500	0.04450		mg/L		89	60 - 140
2-Chlorotoluene	0.0500	0.05778		mg/L		116	73 - 125
4-Chlorotoluene	0.0500	0.05916		mg/L		118	74 - 125
cis-1,2-Dichloroethene	0.0500	0.04954		mg/L		99	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05335		mg/L		107	74 - 125
Dibromochloromethane	0.0500	0.05933		mg/L		119	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.06021		mg/L		120	59 - 125
1,2-Dibromoethane	0.0500	0.05985		mg/L		120	73 - 125
1,2-Dichlorobenzene	0.0500	0.05948		mg/L		119	75 - 125
1,3-Dichlorobenzene	0.0500	0.05852		mg/L		117	75 - 125
1,4-Dichlorobenzene	0.0500	0.05963		mg/L		119	75 - 125
Dichlorodifluoromethane	0.0500	0.05565		mg/L		111	50 - 150

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QC Sample Results

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-139100/3

Matrix: Water

Analysis Batch: 139100

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	0.05129		mg/L		103	71 - 130
1,2-Dichloroethane	0.0500	0.05554		mg/L		111	72 - 130
1,1-Dichloroethene	0.0500	0.05343		mg/L		107	50 - 150
1,2-Dichloropropane	0.0500	0.05395		mg/L		108	74 - 125
1,3-Dichloropropane	0.0500	0.05745		mg/L		115	75 - 125
2,2-Dichloropropane	0.0500	0.05208		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.05087		mg/L		102	75 - 125
Ethylbenzene	0.0500	0.05835		mg/L		117	75 - 125
Hexachlorobutadiene	0.0500	0.06039		mg/L		121	75 - 125
Isopropylbenzene	0.0500	0.05886		mg/L		118	75 - 125
Methylene Chloride	0.0500	0.05004		mg/L		100	71 - 125
m,p-Xylenes	0.0500	0.05837		mg/L		117	75 - 125
MTBE	0.0500	0.04934		mg/L		99	65 - 135
Naphthalene	0.0500	0.06091		mg/L		122	70 - 130
n-Butylbenzene	0.0500	0.06000		mg/L		120	75 - 125
N-Propylbenzene	0.0500	0.05816		mg/L		116	75 - 125
o-Xylene	0.0500	0.05775		mg/L		115	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05931		mg/L		119	75 - 125
sec-Butylbenzene	0.0500	0.05899		mg/L		118	75 - 125
Styrene	0.0500	0.05998		mg/L		120	75 - 125
tert-Butylbenzene	0.0500	0.05824		mg/L		116	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05836		mg/L		117	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05849		mg/L		117	74 - 125
Tetrachloroethene	0.0500	0.05368		mg/L		107	71 - 125
Toluene	0.0500	0.05902		mg/L		118	75 - 130
trans-1,2-Dichloroethene	0.0500	0.05140		mg/L		103	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05773		mg/L		115	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05899		mg/L		118	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05799		mg/L		116	75 - 135
1,1,1-Trichloroethane	0.0500	0.05223		mg/L		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.05754		mg/L		115	75 - 130
Trichloroethene	0.0500	0.05529		mg/L		111	75 - 135
Trichlorofluoromethane	0.0500	0.05485		mg/L		110	60 - 140
1,2,3-Trichloropropane	0.0500	0.05854		mg/L		117	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05915		mg/L		118	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05933		mg/L		119	60 - 140
Vinyl chloride	0.0500	0.04984		mg/L		100	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	111		80 - 120

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QC Sample Results

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-139100/4

Matrix: Water

Analysis Batch: 139100

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	0.05154		mg/L		103	75 - 125	5	25
Bromobenzene	0.0500	0.05592		mg/L		112	75 - 125	5	25
Bromochloromethane	0.0500	0.05056		mg/L		101	60 - 140	1	25
Bromodichloromethane	0.0500	0.05182		mg/L		104	75 - 125	4	25
Bromoform	0.0500	0.05836		mg/L		117	70 - 130	4	25
Bromomethane	0.0500	0.04612		mg/L		92	60 - 140	2	25
2-Butanone	0.250	0.2370		mg/L		95	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04983		mg/L		100	70 - 125	5	25
Chlorobenzene	0.0500	0.05447		mg/L		109	82 - 135	5	25
Chloroethane	0.0500	0.03857		mg/L		77	60 - 140	13	25
Chloroform	0.0500	0.05080		mg/L		102	70 - 121	4	25
Chloromethane	0.0500	0.04195		mg/L		84	60 - 140	6	25
2-Chlorotoluene	0.0500	0.05412		mg/L		108	73 - 125	7	25
4-Chlorotoluene	0.0500	0.05612		mg/L		112	74 - 125	5	25
cis-1,2-Dichloroethene	0.0500	0.04790		mg/L		96	75 - 125	3	25
cis-1,3-Dichloropropene	0.0500	0.05153		mg/L		103	74 - 125	3	25
Dibromochloromethane	0.0500	0.05712		mg/L		114	73 - 125	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05991		mg/L		120	59 - 125	1	25
1,2-Dibromoethane	0.0500	0.05812		mg/L		116	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05681		mg/L		114	75 - 125	5	25
1,3-Dichlorobenzene	0.0500	0.05602		mg/L		112	75 - 125	4	25
1,4-Dichlorobenzene	0.0500	0.05666		mg/L		113	75 - 125	5	25
Dichlorodifluoromethane	0.0500	0.05307		mg/L		106	50 - 150	5	25
1,1-Dichloroethane	0.0500	0.04901		mg/L		98	71 - 130	5	25
1,2-Dichloroethane	0.0500	0.05399		mg/L		108	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.05245		mg/L		105	50 - 150	2	25
1,2-Dichloropropane	0.0500	0.05064		mg/L		101	74 - 125	6	25
1,3-Dichloropropane	0.0500	0.05546		mg/L		111	75 - 125	4	25
2,2-Dichloropropane	0.0500	0.04913		mg/L		98	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04896		mg/L		98	75 - 125	4	25
Ethylbenzene	0.0500	0.05496		mg/L		110	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.05997		mg/L		120	75 - 125	1	25
Isopropylbenzene	0.0500	0.05617		mg/L		112	75 - 125	5	25
Methylene Chloride	0.0500	0.04979		mg/L		100	71 - 125	1	25
m,p-Xylenes	0.0500	0.05510		mg/L		110	75 - 125	6	25
MTBE	0.0500	0.04952		mg/L		99	65 - 135	0	25
Naphthalene	0.0500	0.05911		mg/L		118	70 - 130	3	25
n-Butylbenzene	0.0500	0.05854		mg/L		117	75 - 125	2	25
N-Propylbenzene	0.0500	0.05458		mg/L		109	75 - 125	6	25
o-Xylene	0.0500	0.05445		mg/L		109	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05743		mg/L		115	75 - 125	3	25
sec-Butylbenzene	0.0500	0.05719		mg/L		114	75 - 125	3	25
Styrene	0.0500	0.05647		mg/L		113	75 - 125	6	25
tert-Butylbenzene	0.0500	0.05593		mg/L		112	75 - 125	4	25
1,1,1,2-Tetrachloroethane	0.0500	0.05581		mg/L		112	72 - 125	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.05652		mg/L		113	74 - 125	3	25
Tetrachloroethene	0.0500	0.05121		mg/L		102	71 - 125	5	25
Toluene	0.0500	0.05569		mg/L		111	75 - 130	6	25

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QC Sample Results

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

Job ID: 880-37407-1

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

Lab Sample ID: LCSD 860-139100/4
Matrix: Water
Analysis Batch: 139100

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	0.04949		mg/L		99	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05581		mg/L		112	66 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05690		mg/L		114	75 - 137	4	25
1,2,4-Trichlorobenzene	0.0500	0.05625		mg/L		112	75 - 135	3	25
1,1,1-Trichloroethane	0.0500	0.04974		mg/L		99	70 - 130	5	25
1,1,2-Trichloroethane	0.0500	0.05640		mg/L		113	75 - 130	2	25
Trichloroethene	0.0500	0.05269		mg/L		105	75 - 135	5	25
Trichlorofluoromethane	0.0500	0.05270		mg/L		105	60 - 140	4	25
1,2,3-Trichloropropane	0.0500	0.05949		mg/L		119	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.05623		mg/L		112	75 - 125	5	25
1,3,5-Trimethylbenzene	0.0500	0.05698		mg/L		114	60 - 140	4	25
Vinyl chloride	0.0500	0.04684		mg/L		94	60 - 140	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
Toluene-d8 (Surr)	110		80 - 120

Lab Sample ID: MB 860-139337/1-A
Matrix: Water
Analysis Batch: 139496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 139337

Lab Sample ID: LCS 860-139337/2-A
Matrix: Water
Analysis Batch: 139496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 139337

Eurofins Midland

QC Sample Results

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

Job ID: 880-37407-1

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

Lab Sample ID: LCSD 860-139337/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139496				Prep Batch: 139337							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			104	106.0		mg/L		102	70 - 135	0	35
Diesel Range Organics (Over C10-C28)			104	118.7		mg/L		114	70 - 135	0	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	96		70 - 135								
o-Terphenyl	85		70 - 135								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-139047/3				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139047											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<0.250	U	0.500	0.250 mg/L			01/03/24 14:40	1			
Fluoride	<0.100	U	0.500	0.100 mg/L			01/03/24 14:40	1			
Sulfate	<0.200	U	0.500	0.200 mg/L			01/03/24 14:40	1			

Lab Sample ID: MB 860-139047/46				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139047											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<0.250	U	0.500	0.250 mg/L			01/03/24 21:44	1			
Fluoride	<0.100	U	0.500	0.100 mg/L			01/03/24 21:44	1			
Sulfate	<0.200	U	0.500	0.200 mg/L			01/03/24 21:44	1			

Lab Sample ID: LCS 860-139047/47				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139047											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	10.41		mg/L		104	90 - 110		
Fluoride			10.0	10.45		mg/L		105	90 - 110		
Sulfate			10.0	9.422		mg/L		94	90 - 110		

Lab Sample ID: LCSD 860-139047/48				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139047											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	10.42		mg/L		104	90 - 110	0	20
Fluoride			10.0	10.48		mg/L		105	90 - 110	0	20
Sulfate			10.0	9.424		mg/L		94	90 - 110	0	20

QC Sample Results

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-139047/7

Matrix: Water

Analysis Batch: 139047

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							50 - 150	50 - 150
Chloride	0.500	0.5275		mg/L		105		
Fluoride	0.500	0.5072		mg/L		101		
Sulfate	0.500	0.4733	J	mg/L		95		

Lab Sample ID: 880-37407-1 MS

Matrix: Water

Analysis Batch: 139047

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	
									90 - 110	90 - 110
Chloride	134		10.0	143.7	4	mg/L		96		
Fluoride	0.427	J	10.0	10.08		mg/L		97		
Sulfate	110		10.0	117.6	4	mg/L		79		

Lab Sample ID: 880-37407-1 MSD

Matrix: Water

Analysis Batch: 139047

Client Sample ID: MW-1

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	134		10.0	143.5	4	mg/L		95	90 - 110	0	15
Fluoride	0.427	J	10.0	10.10		mg/L		97	90 - 110	0	15
Sulfate	110		10.0	117.6	4	mg/L		78	90 - 110	0	15

Lab Sample ID: MB 860-139048/3

Matrix: Water

Analysis Batch: 139048

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			01/03/24 14:40	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/03/24 14:40	1

Lab Sample ID: MB 860-139048/46

Matrix: Water

Analysis Batch: 139048

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			01/03/24 21:44	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/03/24 21:44	1

Lab Sample ID: LCS 860-139048/47

Matrix: Water

Analysis Batch: 139048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							80 - 120	80 - 120
Nitrate as N	10.0	10.37		mg/L		104		
Nitrite as N	10.0	9.732		mg/L		97		

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-139048/48

Matrix: Water

Analysis Batch: 139048

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	
Nitrate as N	10.0	10.39			mg/L		104	80 - 120	0	20
Nitrite as N	10.0	9.771			mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-139048/6

Matrix: Water

Analysis Batch: 139048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LLCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Limit				Limits	RPD
Nitrate as N	0.100	0.1013			mg/L		101	50 - 150	
Nitrite as N	0.100	0.08114	J		mg/L		81	50 - 150	

Lab Sample ID: 880-37407-1 MS

Matrix: Water

Analysis Batch: 139048

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Nitrate as N	<0.0391	U	10.0	10.29		mg/L		103	80 - 120	
Nitrite as N	<0.0293	U	2.50	2.120		mg/L		85	80 - 120	

Lab Sample ID: 880-37407-1 MSD

Matrix: Water

Analysis Batch: 139048

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Nitrate as N	<0.0391	U	10.0	10.28		mg/L		103	80 - 120	0	15
Nitrite as N	<0.0293	U	2.50	2.133		mg/L		85	80 - 120	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-139319/3

Matrix: Water

Analysis Batch: 139319

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			01/04/24 14:27	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/04/24 14:27	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/04/24 14:27	1

Lab Sample ID: LCS 860-139319/4

Matrix: Water

Analysis Batch: 139319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Limit				Limits	RPD
Alkalinity	250	264.7			mg/L		106	85 - 115	

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QC Sample Results

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

Job ID: 880-37407-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-139319/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139319											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity			250	264.9		mg/L		106	85 - 115	0	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-139408/3				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139408											
Analyte		MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed		Dil Fac
Sulfide, Dissolved		<0.0400	U	0.100		0.0400 mg/L			01/05/24 13:05		1

Lab Sample ID: LCS 860-139408/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139408											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Dissolved			1.00	1.050		mg/L		105	90 - 110		

Lab Sample ID: LCSD 860-139408/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 139408											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Dissolved			1.00	1.052		mg/L		105	90 - 110	0	20

QC Association Summary

Client: Ensolum

Job ID: 880-37407-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 139100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Total/NA	Water	8260C	
880-37407-2	MW-2	Total/NA	Water	8260C	
MB 860-139100/9	Method Blank	Total/NA	Water	8260C	
LCS 860-139100/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-139100/4	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
880-37407-1	MW-1	Total/NA	Water	8015 NM	
880-37407-2	MW-2	Total/NA	Water	8015 NM	

Prep Batch: 139337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-37407-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-139337/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-139337/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-139337/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 139496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Total/NA	Water	8015B NM	139337
880-37407-2	MW-2	Total/NA	Water	8015B NM	139337
MB 860-139337/1-A	Method Blank	Total/NA	Water	8015B NM	139337
LCS 860-139337/2-A	Lab Control Sample	Total/NA	Water	8015B NM	139337
LCSD 860-139337/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	139337

HPLC/IC

Analysis Batch: 139047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Total/NA	Water	300.0	
880-37407-2	MW-2	Total/NA	Water	300.0	
MB 860-139047/3	Method Blank	Total/NA	Water	300.0	
MB 860-139047/46	Method Blank	Total/NA	Water	300.0	
LCS 860-139047/47	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-139047/48	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-139047/7	Lab Control Sample	Total/NA	Water	300.0	
880-37407-1 MS	MW-1	Total/NA	Water	300.0	
880-37407-1 MSD	MW-1	Total/NA	Water	300.0	

Analysis Batch: 139048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Total/NA	Water	300.0	
880-37407-2	MW-2	Total/NA	Water	300.0	
MB 860-139048/3	Method Blank	Total/NA	Water	300.0	
MB 860-139048/46	Method Blank	Total/NA	Water	300.0	
LCS 860-139048/47	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-139048/48	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-139048/6	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

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

Job ID: 880-37407-1

HPLC/IC (Continued)

Analysis Batch: 139048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1 MS	MW-1	Total/NA	Water	300.0	
880-37407-1 MSD	MW-1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 135861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-37407-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 139216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-37407-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 139319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Total/NA	Water	SM 2320B	
880-37407-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-139319/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-139319/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-139319/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Filtration Batch: 139404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 139408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37407-1	MW-1	Dissolved	Water	SM 4500 S2 D	139404
MB 860-139408/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-139408/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-139408/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Lab Chronicle

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

Job ID: 880-37407-1

Client Sample ID: MW-1

Date Collected: 01/02/24 11:55

Date Received: 01/02/24 15:48

Lab Sample ID: 880-37407-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	139100	NA	EET HOU	01/04/24 11:41
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	01/06/24 19:45
Total/NA	Prep	8015NM Aq Prep			139337	BH	EET HOU	01/05/24 10:21
Total/NA	Analysis	8015B NM		1	139496	TTD	EET HOU	01/06/24 19:45
Total/NA	Analysis	300.0		1	139047	AK1	EET HOU	01/04/24 00:50
Total/NA	Analysis	300.0		1	139048	AK1	EET HOU	01/04/24 00:50
Total/NA	Analysis	SM 2320B		1	139319	KEG	EET HOU	01/04/24 18:28
Total/NA	Analysis	SM 4500 CO2 D		1	135861	MC	EET HOU	01/08/24 12:05
Total/NA	Analysis	SM 4500 H+ B		1	139216	KEG	EET HOU	01/04/24 13:03
Dissolved	Filtration	Filtration			139404	SCI	EET HOU	01/05/24 12:33
Dissolved	Analysis	SM 4500 S2 D		1	139408	SCI	EET HOU	01/05/24 13:05

Client Sample ID: MW-2

Date Collected: 01/02/24 10:55

Date Received: 01/02/24 15:48

Lab Sample ID: 880-37407-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	139100	NA	EET HOU	01/04/24 12:01
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	01/06/24 20:46
Total/NA	Prep	8015NM Aq Prep			139337	BH	EET HOU	01/05/24 10:21
Total/NA	Analysis	8015B NM		1	139496	TTD	EET HOU	01/06/24 20:46
Total/NA	Analysis	300.0		1	139047	AK1	EET HOU	01/03/24 22:52
Total/NA	Analysis	300.0		1	139048	AK1	EET HOU	01/03/24 22:52
Total/NA	Analysis	SM 2320B		1	139319	KEG	EET HOU	01/04/24 18:44
Total/NA	Analysis	SM 4500 CO2 D		1	135861	MC	EET HOU	01/08/24 12:05
Total/NA	Analysis	SM 4500 H+ B		1	139216	KEG	EET HOU	01/04/24 13:05

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: 880-37407-1

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: 880-37407-1

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: 880-37407-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37407-1	MW-1	Water	01/02/24 11:55	01/02/24 15:48
880-37407-2	MW-2	Water	01/02/24 10:55	01/02/24 15:48

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14



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)

Chain of Custody

M



880-37407 Chain of Custody

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

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

Project Name:	South Hobbs	Turn Around	
Project Number:	03B1417002	Routine ☐	
P.O. Number:	03B1417002	Rush 24 Hr	
Sampler's Name:	Shane Diller	Due Date	
SAMPLE RECEIPT			
Temperature (°C)	1.411.6	Temp Blank	Yes ☒ No ☐
Received Inact:	Yes ☒ No ☐	Thermometer ID	2128
Cooler Custody Seals:	Yes ☐ No ☒	Correction Factor	4.20
Sample Custody Seals:	Yes ☐ No ☒	Total Containers	
Sample Identification	Matrix	Date Sampled	Time Sampled
MMW-1	GW	1-2-24	1155
MMW-2	GW	1-2-24	1055
Number of Containers			
Dissolved Carbon Dioxide 4500 CO2 c			
Dissovled 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			
ANALYSIS REQUEST			
Work Order Notes			
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 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		1/2/24			2
		1549			4
					6

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-37407-1

Login Number: 37407

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: 880-37407-1

Login Number: 37407

List Number: 2

Creator: Jimenez, Nicanor

List Source: Eurofins Houston

List Creation: 01/03/24 03:24 PM

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



Environment Testing

- 1
- 2
- 3
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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/18/2024 7:33:15 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-37792-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

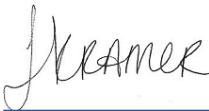
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/18/2024 7:33:15 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: 880-37792-1

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	21
Lab Chronicle	23
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	29

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: 880-37792-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: South Hobbs - 03B1417002

Job ID: 880-37792-1

Job ID: 880-37792-1

Eurofins Midland

Job Narrative 880-37792-1

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 1/10/2024 3:58 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The instrument blank for analytical batch 860-140245 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-140245 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 Sulfate the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-140245 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 860-140246 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.

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-37792-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-37792-1

Date Collected: 01/10/24 10:30

Matrix: Water

Date Received: 01/10/24 15:58

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		01/11/24 19:04	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/11/24 19:04	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/11/24 19:04	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/11/24 19:04	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/11/24 19:04	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/11/24 19:04	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/11/24 19:04	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/11/24 19:04	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/11/24 19:04	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/11/24 19:04	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/11/24 19:04	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/11/24 19:04	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/11/24 19:04	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/11/24 19:04	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/11/24 19:04	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/11/24 19:04	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/11/24 19:04	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/11/24 19:04	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/11/24 19:04	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/11/24 19:04	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/11/24 19:04	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/11/24 19:04	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/11/24 19:04	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/11/24 19:04	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/11/24 19:04	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/11/24 19:04	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/11/24 19:04	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/11/24 19:04	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/11/24 19:04	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/11/24 19:04	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		01/11/24 19:04	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/11/24 19:04	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		01/11/24 19:04	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		01/11/24 19:04	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		01/11/24 19:04	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/11/24 19:04	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/11/24 19:04	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/11/24 19:04	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		01/11/24 19:04	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		01/11/24 19:04	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/11/24 19:04	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/11/24 19:04	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/11/24 19:04	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/11/24 19:04	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/11/24 19:04	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/11/24 19:04	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/11/24 19:04	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		01/11/24 19:04	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		01/11/24 19:04	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-37792-1

Client Sample ID: MW-1

Lab Sample ID: 880-37792-1

Date Collected: 01/10/24 10:30

Matrix: Water

Date Received: 01/10/24 15:58

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			01/11/24 19:04	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/11/24 19:04	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/11/24 19:04	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/11/24 19:04	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/11/24 19:04	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/11/24 19:04	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/11/24 19:04	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/11/24 19:04	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			01/11/24 19:04	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			01/11/24 19:04	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/11/24 19:04	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			01/11/24 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		74 - 124				01/11/24 19:04	1
Dibromofluoromethane (Surr)	98		75 - 131				01/11/24 19:04	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 144				01/11/24 19:04	1
Toluene-d8 (Surr)	98		80 - 120				01/11/24 19:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.988	U	5.00	0.988 mg/L			01/12/24 13:55	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	<0.988	U	5.00	0.988 mg/L		01/12/24 07:47	01/12/24 13:55	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		01/12/24 07:47	01/12/24 13:55	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		01/12/24 07:47	01/12/24 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 135			01/12/24 07:47	01/12/24 13:55	1
o-Terphenyl	92		70 - 135			01/12/24 07:47	01/12/24 13:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		0.500	0.250 mg/L			01/11/24 20:23	1
Nitrate as N	0.0869	J	0.100	0.0391 mg/L			01/11/24 20:23	1
Fluoride	0.417	J	0.500	0.100 mg/L			01/11/24 20:23	1
Nitrite as N	0.547		0.100	0.0293 mg/L			01/11/24 20:23	1
Sulfate	122		0.500	0.200 mg/L			01/11/24 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	884		4.00	4.00 mg/L			01/12/24 13:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	884		4.00	4.00 mg/L			01/12/24 13:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/12/24 13:21	1
Carbon dioxide (SM 4500 CO2 D)	1130			mg/L			01/18/24 20:15	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-37792-1

Client Sample ID: MW-1
Date Collected: 01/10/24 10:30
Date Received: 01/10/24 15:58

Lab Sample ID: 880-37792-1
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	352				mg/L			01/18/24 20:15	1
pH (SM 4500 H+ B)	6.7	HF			SU			01/12/24 13:06	1
Temperature (SM 4500 H+ B)	16.3	HF			Degrees C			01/12/24 13:06	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			01/12/24 15:12	1

Client Sample ID: MW-2
Date Collected: 01/10/24 11:40
Date Received: 01/10/24 15:58

Lab Sample ID: 880-37792-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0177		0.00100	0.000460	mg/L			01/11/24 19:25	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L			01/11/24 19:25	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L			01/11/24 19:25	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			01/11/24 19:25	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			01/11/24 19:25	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			01/11/24 19:25	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L			01/11/24 19:25	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			01/11/24 19:25	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L			01/11/24 19:25	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			01/11/24 19:25	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L			01/11/24 19:25	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			01/11/24 19:25	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L			01/11/24 19:25	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L			01/11/24 19:25	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L			01/11/24 19:25	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			01/11/24 19:25	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L			01/11/24 19:25	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L			01/11/24 19:25	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L			01/11/24 19:25	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L			01/11/24 19:25	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L			01/11/24 19:25	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L			01/11/24 19:25	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L			01/11/24 19:25	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			01/11/24 19:25	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L			01/11/24 19:25	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			01/11/24 19:25	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L			01/11/24 19:25	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L			01/11/24 19:25	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L			01/11/24 19:25	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L			01/11/24 19:25	1
Ethylbenzene	0.0224		0.00100	0.000385	mg/L			01/11/24 19:25	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L			01/11/24 19:25	1
Isopropylbenzene	0.00837		0.00100	0.000592	mg/L			01/11/24 19:25	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			01/11/24 19:25	1
m,p-Xylenes	0.0736		0.0100	0.00124	mg/L			01/11/24 19:25	1

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Client Sample Results

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

Job ID: 880-37792-1

Client Sample ID: MW-2

Lab Sample ID: 880-37792-2

Date Collected: 01/10/24 11:40

Matrix: Water

Date Received: 01/10/24 15:58

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			01/11/24 19:25	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			01/11/24 19:25	1
n-Butylbenzene	0.000655	J	0.00100	0.000510	mg/L			01/11/24 19:25	1
N-Propylbenzene	0.00235		0.00100	0.000429	mg/L			01/11/24 19:25	1
o-Xylene	0.0187		0.00100	0.000502	mg/L			01/11/24 19:25	1
p-Cymene (p-Isopropyltoluene)	0.000749	J	0.00100	0.000676	mg/L			01/11/24 19:25	1
sec-Butylbenzene	0.000949	J	0.00100	0.000468	mg/L			01/11/24 19:25	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			01/11/24 19:25	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			01/11/24 19:25	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			01/11/24 19:25	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			01/11/24 19:25	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			01/11/24 19:25	1
Toluene	0.0119		0.00100	0.000475	mg/L			01/11/24 19:25	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			01/11/24 19:25	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			01/11/24 19:25	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			01/11/24 19:25	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			01/11/24 19:25	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			01/11/24 19:25	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			01/11/24 19:25	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			01/11/24 19:25	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			01/11/24 19:25	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			01/11/24 19:25	1
1,2,4-Trimethylbenzene	0.0231		0.00100	0.000417	mg/L			01/11/24 19:25	1
1,3,5-Trimethylbenzene	0.00632		0.00100	0.000411	mg/L			01/11/24 19:25	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			01/11/24 19:25	1
Xylenes, Total	0.0923		0.0100	0.00124	mg/L			01/11/24 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		74 - 124					01/11/24 19:25	1
Dibromofluoromethane (Surr)	95		75 - 131					01/11/24 19:25	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144					01/11/24 19:25	1
Toluene-d8 (Surr)	99		80 - 120					01/11/24 19:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.40	J	5.03	0.995	mg/L			01/12/24 14:15	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	1.40	J	5.03	0.995	mg/L		01/12/24 07:47	01/12/24 14:15	1
Diesel Range Organics (Over C10-C28)	<0.995	U	5.03	0.995	mg/L		01/12/24 07:47	01/12/24 14:15	1
Oil Range Organics (Over C28-C36)	<0.960	U	5.03	0.960	mg/L		01/12/24 07:47	01/12/24 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135				01/12/24 07:47	01/12/24 14:15	1
o-Terphenyl	89		70 - 135				01/12/24 07:47	01/12/24 14:15	1

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Client Sample Results

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

Job ID: 880-37792-1

Client Sample ID: MW-2
Date Collected: 01/10/24 11:40
Date Received: 01/10/24 15:58

Lab Sample ID: 880-37792-2
Matrix: Water

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			01/11/24 21:15	1
Nitrate as N	0.477		0.100	0.0391	mg/L			01/11/24 21:15	1
Fluoride	0.137	J	0.500	0.100	mg/L			01/11/24 21:15	1
Nitrite as N	1.35		0.100	0.0293	mg/L			01/11/24 21:15	1
Sulfate	96.5		0.500	0.200	mg/L			01/11/24 21:15	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1390		4.00	4.00	mg/L			01/12/24 14:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1390		4.00	4.00	mg/L			01/12/24 14:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/12/24 14:08	1
Carbon dioxide (SM 4500 CO2 D)	2980				mg/L			01/18/24 20:15	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1760				mg/L			01/18/24 20:15	1
pH (SM 4500 H+ B)	6.2	HF			SU			01/12/24 13:08	1
Temperature (SM 4500 H+ B)	16.4	HF			Degrees C			01/12/24 13:08	1

Surrogate Summary

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

Job ID: 880-37792-1

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)
880-37792-1	MW-1	103	98	105	98
880-37792-1 MS	MW-1	101	99	95	99
880-37792-2	MW-2	102	95	104	99
LCS 860-140248/3	Lab Control Sample	102	101	97	100
LCSD 860-140248/4	Lab Control Sample Dup	100	100	94	100
MB 860-140248/10	Method Blank	106	99	101	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-37792-1	MW-1	96	92
880-37792-2	MW-2	92	89
LCS 860-140320/2-A	Lab Control Sample	101	97
LCSD 860-140320/3-A	Lab Control Sample Dup	101	96
MB 860-140320/1-A	Method Blank	85	81
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-37792-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-140248/10

Matrix: Water

Analysis Batch: 140248

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.000460	U	0.00100	0.000460	mg/L		01/11/24 18:03	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/11/24 18:03	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/11/24 18:03	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/11/24 18:03	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/11/24 18:03	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/11/24 18:03	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/11/24 18:03	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/11/24 18:03	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/11/24 18:03	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/11/24 18:03	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/11/24 18:03	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/11/24 18:03	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/11/24 18:03	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/11/24 18:03	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/11/24 18:03	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/11/24 18:03	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/11/24 18:03	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/11/24 18:03	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/11/24 18:03	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/11/24 18:03	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/11/24 18:03	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/11/24 18:03	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/11/24 18:03	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/11/24 18:03	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/11/24 18:03	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/11/24 18:03	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/11/24 18:03	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/11/24 18:03	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/11/24 18:03	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/11/24 18:03	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		01/11/24 18:03	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/11/24 18:03	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		01/11/24 18:03	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		01/11/24 18:03	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		01/11/24 18:03	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/11/24 18:03	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/11/24 18:03	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/11/24 18:03	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		01/11/24 18:03	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		01/11/24 18:03	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/11/24 18:03	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/11/24 18:03	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/11/24 18:03	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/11/24 18:03	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/11/24 18:03	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/11/24 18:03	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/11/24 18:03	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		01/11/24 18:03	1

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QC Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-37792-1

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

Lab Sample ID: MB 860-140248/10					Client Sample ID: Method Blank			
Matrix: Water					Prep Type: Total/NA			
Analysis Batch: 140248								
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			01/11/24 18:03	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			01/11/24 18:03	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/11/24 18:03	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/11/24 18:03	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/11/24 18:03	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/11/24 18:03	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/11/24 18:03	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/11/24 18:03	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/11/24 18:03	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			01/11/24 18:03	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			01/11/24 18:03	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/11/24 18:03	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			01/11/24 18:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		74 - 124				01/11/24 18:03	1
Dibromofluoromethane (Surr)	99		75 - 131				01/11/24 18:03	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 144				01/11/24 18:03	1
Toluene-d8 (Surr)	100		80 - 120				01/11/24 18:03	1

Lab Sample ID: LCS 860-140248/3					Client Sample ID: Lab Control Sample			
Matrix: Water					Prep Type: Total/NA			
Analysis Batch: 140248								
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.0500	0.05031		mg/L		101	75 - 125	
Bromobenzene	0.0500	0.05211		mg/L		104	75 - 125	
Bromochloromethane	0.0500	0.04818		mg/L		96	60 - 140	
Bromodichloromethane	0.0500	0.05149		mg/L		103	75 - 125	
Bromoform	0.0500	0.05050		mg/L		101	70 - 130	
Bromomethane	0.0500	0.05294		mg/L		106	60 - 140	
2-Butanone	0.250	0.2332		mg/L		93	60 - 140	
Carbon tetrachloride	0.0500	0.04995		mg/L		100	70 - 125	
Chlorobenzene	0.0500	0.05010		mg/L		100	82 - 135	
Chloroethane	0.0500	0.05108		mg/L		102	60 - 140	
Chloroform	0.0500	0.05069		mg/L		101	70 - 121	
Chloromethane	0.0500	0.04803		mg/L		96	60 - 140	
2-Chlorotoluene	0.0500	0.05024		mg/L		100	73 - 125	
4-Chlorotoluene	0.0500	0.05102		mg/L		102	74 - 125	
cis-1,2-Dichloroethene	0.0500	0.04888		mg/L		98	75 - 125	
cis-1,3-Dichloropropene	0.0500	0.05147		mg/L		103	74 - 125	
Dibromochloromethane	0.0500	0.05316		mg/L		106	73 - 125	
1,2-Dibromo-3-Chloropropane	0.0500	0.04872		mg/L		97	59 - 125	
1,2-Dibromoethane	0.0500	0.05267		mg/L		105	73 - 125	
1,2-Dichlorobenzene	0.0500	0.05190		mg/L		104	75 - 125	
1,3-Dichlorobenzene	0.0500	0.05209		mg/L		104	75 - 125	
1,4-Dichlorobenzene	0.0500	0.05176		mg/L		104	75 - 125	
Dichlorodifluoromethane	0.0500	0.05106		mg/L		102	50 - 150	

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QC Sample Results

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

Job ID: 880-37792-1

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

Lab Sample ID: LCS 860-140248/3

Matrix: Water

Analysis Batch: 140248

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	%Rec				
	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethane	0.0500	0.05069		mg/L		101	71 - 130
1,2-Dichloroethane	0.0500	0.05158		mg/L		103	72 - 130
1,1-Dichloroethene	0.0500	0.04784		mg/L		96	50 - 150
1,2-Dichloropropane	0.0500	0.04738		mg/L		95	74 - 125
1,3-Dichloropropane	0.0500	0.05058		mg/L		101	75 - 125
2,2-Dichloropropane	0.0500	0.05109		mg/L		102	75 - 125
1,1-Dichloropropene	0.0500	0.05041		mg/L		101	75 - 125
Ethylbenzene	0.0500	0.05103		mg/L		102	75 - 125
Hexachlorobutadiene	0.0500	0.05124		mg/L		102	75 - 125
Isopropylbenzene	0.0500	0.05141		mg/L		103	75 - 125
Methylene Chloride	0.0500	0.04279		mg/L		86	71 - 125
m,p-Xylenes	0.0500	0.05166		mg/L		103	75 - 125
MTBE	0.0500	0.04537		mg/L		91	65 - 135
Naphthalene	0.0500	0.05156		mg/L		103	70 - 130
n-Butylbenzene	0.0500	0.05210		mg/L		104	75 - 125
N-Propylbenzene	0.0500	0.05007		mg/L		100	75 - 125
o-Xylene	0.0500	0.05045		mg/L		101	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05246		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05186		mg/L		104	75 - 125
Styrene	0.0500	0.05256		mg/L		105	75 - 125
tert-Butylbenzene	0.0500	0.05092		mg/L		102	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05329		mg/L		107	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05041		mg/L		101	74 - 125
Tetrachloroethene	0.0500	0.05303		mg/L		106	71 - 125
Toluene	0.0500	0.05003		mg/L		100	75 - 130
trans-1,2-Dichloroethene	0.0500	0.04829		mg/L		97	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05196		mg/L		104	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05228		mg/L		105	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05165		mg/L		103	75 - 135
1,1,1-Trichloroethane	0.0500	0.05233		mg/L		105	70 - 130
1,1,2-Trichloroethane	0.0500	0.05252		mg/L		105	75 - 130
Trichloroethene	0.0500	0.04769		mg/L		95	75 - 135
Trichlorofluoromethane	0.0500	0.04969		mg/L		99	60 - 140
1,2,3-Trichloropropane	0.0500	0.05006		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05099		mg/L		102	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05267		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.05146		mg/L		103	60 - 140

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>4-Bromofluorobenzene (Surr)</i>	102		74 - 124
<i>Dibromofluoromethane (Surr)</i>	101		75 - 131
<i>1,2-Dichloroethane-d4 (Surr)</i>	97		63 - 144
<i>Toluene-d8 (Surr)</i>	100		80 - 120

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-37792-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-140248/4

Matrix: Water

Analysis Batch: 140248

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	0.05381		mg/L		108	75 - 125	7	25
Bromobenzene	0.0500	0.05449		mg/L		109	75 - 125	4	25
Bromochloromethane	0.0500	0.04944		mg/L		99	60 - 140	3	25
Bromodichloromethane	0.0500	0.05413		mg/L		108	75 - 125	5	25
Bromoform	0.0500	0.05147		mg/L		103	70 - 130	2	25
Bromomethane	0.0500	0.05349		mg/L		107	60 - 140	1	25
2-Butanone	0.250	0.2305		mg/L		92	60 - 140	1	25
Carbon tetrachloride	0.0500	0.05436		mg/L		109	70 - 125	8	25
Chlorobenzene	0.0500	0.05270		mg/L		105	82 - 135	5	25
Chloroethane	0.0500	0.05220		mg/L		104	60 - 140	2	25
Chloroform	0.0500	0.05385		mg/L		108	70 - 121	6	25
Chloromethane	0.0500	0.04849		mg/L		97	60 - 140	1	25
2-Chlorotoluene	0.0500	0.05328		mg/L		107	73 - 125	6	25
4-Chlorotoluene	0.0500	0.05289		mg/L		106	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.05199		mg/L		104	75 - 125	6	25
cis-1,3-Dichloropropene	0.0500	0.05385		mg/L		108	74 - 125	5	25
Dibromochloromethane	0.0500	0.05497		mg/L		110	73 - 125	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04767		mg/L		95	59 - 125	2	25
1,2-Dibromoethane	0.0500	0.05439		mg/L		109	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.05322		mg/L		106	75 - 125	3	25
1,3-Dichlorobenzene	0.0500	0.05367		mg/L		107	75 - 125	3	25
1,4-Dichlorobenzene	0.0500	0.05325		mg/L		106	75 - 125	3	25
Dichlorodifluoromethane	0.0500	0.05346		mg/L		107	50 - 150	5	25
1,1-Dichloroethane	0.0500	0.05431		mg/L		109	71 - 130	7	25
1,2-Dichloroethane	0.0500	0.05367		mg/L		107	72 - 130	4	25
1,1-Dichloroethene	0.0500	0.05226		mg/L		105	50 - 150	9	25
1,2-Dichloropropane	0.0500	0.05031		mg/L		101	74 - 125	6	25
1,3-Dichloropropane	0.0500	0.05217		mg/L		104	75 - 125	3	25
2,2-Dichloropropane	0.0500	0.05421		mg/L		108	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.05371		mg/L		107	75 - 125	6	25
Ethylbenzene	0.0500	0.05417		mg/L		108	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.05255		mg/L		105	75 - 125	3	25
Isopropylbenzene	0.0500	0.05509		mg/L		110	75 - 125	7	25
Methylene Chloride	0.0500	0.04557		mg/L		91	71 - 125	6	25
m,p-Xylenes	0.0500	0.05440		mg/L		109	75 - 125	5	25
MTBE	0.0500	0.04667		mg/L		93	65 - 135	3	25
Naphthalene	0.0500	0.05130		mg/L		103	70 - 130	0	25
n-Butylbenzene	0.0500	0.05329		mg/L		107	75 - 125	2	25
N-Propylbenzene	0.0500	0.05300		mg/L		106	75 - 125	6	25
o-Xylene	0.0500	0.05359		mg/L		107	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05468		mg/L		109	75 - 125	4	25
sec-Butylbenzene	0.0500	0.05384		mg/L		108	75 - 125	4	25
Styrene	0.0500	0.05523		mg/L		110	75 - 125	5	25
tert-Butylbenzene	0.0500	0.05247		mg/L		105	75 - 125	3	25
1,1,1,2-Tetrachloroethane	0.0500	0.05596		mg/L		112	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.04981		mg/L		100	74 - 125	1	25
Tetrachloroethene	0.0500	0.05714		mg/L		114	71 - 125	7	25
Toluene	0.0500	0.05290		mg/L		106	75 - 130	6	25

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QC Sample Results

Client: Ensolum

Job ID: 880-37792-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-140248/4

Matrix: Water

Analysis Batch: 140248

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	0.05189		mg/L		104	75 - 125	7	25
trans-1,3-Dichloropropene	0.0500	0.05425		mg/L		109	66 - 125	4	25
1,2,3-Trichlorobenzene	0.0500	0.05264		mg/L		105	75 - 137	1	25
1,2,4-Trichlorobenzene	0.0500	0.05237		mg/L		105	75 - 135	1	25
1,1,1-Trichloroethane	0.0500	0.05613		mg/L		112	70 - 130	7	25
1,1,2-Trichloroethane	0.0500	0.05396		mg/L		108	75 - 130	3	25
Trichloroethene	0.0500	0.05132		mg/L		103	75 - 135	7	25
Trichlorofluoromethane	0.0500	0.05253		mg/L		105	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.04907		mg/L		98	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.05269		mg/L		105	75 - 125	3	25
1,3,5-Trimethylbenzene	0.0500	0.05426		mg/L		109	60 - 140	3	25
Vinyl chloride	0.0500	0.05235		mg/L		105	60 - 140	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 880-37792-1 MS

Matrix: Water

Analysis Batch: 140248

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	0.05368		mg/L		107	66 - 142
Bromobenzene	<0.000486	U	0.0500	0.05661		mg/L		113	75 - 125
Bromochloromethane	<0.000577	U	0.0500	0.05001		mg/L		100	60 - 140
Bromodichloromethane	<0.000552	U	0.0500	0.05584		mg/L		112	75 - 125
Bromoform	<0.000633	U	0.0500	0.05200		mg/L		104	75 - 125
Bromomethane	<0.00142	U	0.0500	0.05173		mg/L		103	60 - 140
2-Butanone	<0.00828	U	0.250	0.2278		mg/L		91	60 - 140
Carbon tetrachloride	<0.000896	U	0.0500	0.04697		mg/L		94	62 - 125
Chlorobenzene	<0.000455	U	0.0500	0.05315		mg/L		106	60 - 133
Chloroethane	<0.00198	U	0.0500	0.04908		mg/L		98	60 - 140
Chloroform	<0.000464	U	0.0500	0.05362		mg/L		107	70 - 130
Chloromethane	<0.00204	U	0.0500	0.04656		mg/L		93	60 - 140
2-Chlorotoluene	<0.000459	U	0.0500	0.05221		mg/L		104	73 - 125
4-Chlorotoluene	<0.000386	U	0.0500	0.05349		mg/L		107	74 - 125
cis-1,2-Dichloroethene	<0.000457	U	0.0500	0.05191		mg/L		104	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	0.0500	0.05527		mg/L		111	74 - 125
Dibromochloromethane	<0.000547	U	0.0500	0.05618		mg/L		112	73 - 125
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.0500	0.05043		mg/L		101	59 - 125
1,2-Dibromoethane	<0.000999	U	0.0500	0.05452		mg/L		109	73 - 125
1,2-Dichlorobenzene	<0.000429	U	0.0500	0.05480		mg/L		110	75 - 125
1,3-Dichlorobenzene	<0.000413	U	0.0500	0.05451		mg/L		109	75 - 125
1,4-Dichlorobenzene	<0.000449	U	0.0500	0.05464		mg/L		109	75 - 125
Dichlorodifluoromethane	<0.000785	U	0.0500	0.03985		mg/L		80	70 - 130
1,1-Dichloroethane	<0.000635	U	0.0500	0.05371		mg/L		107	72 - 125

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QC Sample Results

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

Job ID: 880-37792-1

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

Lab Sample ID: 880-37792-1 MS						Client Sample ID: MW-1					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 140248											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,2-Dichloroethane	<0.000372	U	0.0500	0.05464		mg/L		109	68 - 127		
1,1-Dichloroethene	<0.000738	U	0.0500	0.04625		mg/L		92	59 - 172		
1,2-Dichloropropane	<0.000556	U	0.0500	0.05055		mg/L		101	74 - 125		
1,3-Dichloropropane	<0.000514	U	0.0500	0.05304		mg/L		106	75 - 125		
2,2-Dichloropropane	<0.000679	U	0.0500	0.05273		mg/L		105	75 - 125		
1,1-Dichloropropene	<0.000624	U	0.0500	0.04724		mg/L		94	75 - 125		
Ethylbenzene	<0.000385	U	0.0500	0.05239		mg/L		105	75 - 125		
Hexachlorobutadiene	<0.000627	U	0.0500	0.04693		mg/L		94	75 - 125		
Isopropylbenzene	<0.000592	U	0.0500	0.05204		mg/L		104	75 - 125		
Methylene Chloride	<0.00173	U	0.0500	0.04437		mg/L		89	75 - 125		
m,p-Xylenes	<0.00124	U	0.0500	0.05340		mg/L		107	75 - 125		
MTBE	<0.00139	U	0.0500	0.04730		mg/L		95	65 - 135		
Naphthalene	<0.00135	U	0.0500	0.05229		mg/L		105	70 - 130		
n-Butylbenzene	<0.000510	U	0.0500	0.04926		mg/L		99	75 - 125		
N-Propylbenzene	<0.000429	U	0.0500	0.04998		mg/L		100	75 - 125		
o-Xylene	<0.000502	U	0.0500	0.05320		mg/L		106	75 - 125		
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.0500	0.05158		mg/L		103	75 - 125		
sec-Butylbenzene	<0.000468	U	0.0500	0.04989		mg/L		100	75 - 125		
Styrene	<0.000619	U	0.0500	0.05552		mg/L		111	75 - 125		
tert-Butylbenzene	<0.000442	U	0.0500	0.04994		mg/L		100	75 - 125		
1,1,1,2-Tetrachloroethane	<0.000644	U	0.0500	0.05742		mg/L		115	72 - 125		
1,1,2,2-Tetrachloroethane	<0.000470	U	0.0500	0.05300		mg/L		106	74 - 125		
Tetrachloroethene	<0.000655	U	0.0500	0.05203		mg/L		104	71 - 125		
Toluene	<0.000475	U	0.0500	0.05253		mg/L		105	59 - 139		
trans-1,2-Dichloroethene	<0.000368	U	0.0500	0.04963		mg/L		99	75 - 125		
trans-1,3-Dichloropropene	<0.00127	U	0.0500	0.05516		mg/L		110	66 - 125		
1,2,3-Trichlorobenzene	<0.00177	U	0.0500	0.05332		mg/L		107	75 - 137		
1,2,4-Trichlorobenzene	<0.00175	U	0.0500	0.05335		mg/L		107	75 - 135		
1,1,1-Trichloroethane	<0.000585	U	0.0500	0.05269		mg/L		105	75 - 125		
1,1,2-Trichloroethane	<0.000411	U	0.0500	0.05474		mg/L		109	75 - 127		
Trichloroethene	<0.00150	U	0.0500	0.04841		mg/L		97	62 - 137		
Trichlorofluoromethane	<0.000560	U	0.0500	0.04333		mg/L		87	60 - 140		
1,2,3-Trichloropropane	<0.000470	U	0.0500	0.05075		mg/L		101	75 - 125		
1,2,4-Trimethylbenzene	<0.000417	U	0.0500	0.05256		mg/L		105	75 - 125		
1,3,5-Trimethylbenzene	<0.000411	U	0.0500	0.05331		mg/L		107	70 - 125		
Vinyl chloride	<0.000428	U	0.0500	0.04777		mg/L		96	60 - 140		

QC Sample Results

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

Job ID: 880-37792-1

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

Lab Sample ID: MB 860-140320/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 140313						Prep Batch: 140320			
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		01/12/24 07:47	01/12/24 13:35	1	
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988 mg/L		01/12/24 07:47	01/12/24 13:35	1	
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954 mg/L		01/12/24 07:47	01/12/24 13:35	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	85		70 - 135			01/12/24 07:47	01/12/24 13:35	1	
o-Terphenyl	81		70 - 135			01/12/24 07:47	01/12/24 13:35	1	

Lab Sample ID: LCS 860-140320/2-A						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 140313						Prep Batch: 140320			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	99.9	92.02		mg/L		92	70 - 135		
Diesel Range Organics (Over C10-C28)	99.9	113.8		mg/L		114	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	101		70 - 135						
o-Terphenyl	97		70 - 135						

Lab Sample ID: LCSD 860-140320/3-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Water						Prep Type: Total/NA				
Analysis Batch: 140313						Prep Batch: 140320				
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Gasoline Range Organics (GRO)-C6-C10	99.9	87.77		mg/L		88	70 - 135	5	35	
Diesel Range Organics (Over C10-C28)	99.9	111.4		mg/L		112	70 - 135	2	35	
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
1-Chlorooctane	101		70 - 135							
o-Terphenyl	96		70 - 135							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-140245/13						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 140245									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.250	U	0.500	0.250 mg/L			01/11/24 16:43	1	
Fluoride	<0.100	U	0.500	0.100 mg/L			01/11/24 16:43	1	
Sulfate	<0.200	U	0.500	0.200 mg/L			01/11/24 16:43	1	

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QC Sample Results

Client: Ensolum

Job ID: 880-37792-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-140245/14

Matrix: Water

Analysis Batch: 140245

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Chloride	5.00	4.960		mg/L		99	90 - 110	
Fluoride	5.00	5.291		mg/L		106	90 - 110	
Sulfate	5.00	4.930		mg/L		99	90 - 110	

Lab Sample ID: LCSD 860-140245/15

Matrix: Water

Analysis Batch: 140245

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	5.00	4.954		mg/L		99	90 - 110	0	20	
Fluoride	5.00	5.289		mg/L		106	90 - 110	0	20	
Sulfate	5.00	4.925		mg/L		98	90 - 110	0	20	

Lab Sample ID: LLCS 860-140245/17

Matrix: Water

Analysis Batch: 140245

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	0.5039		mg/L		101	50 - 150	
Fluoride	0.500	0.4869	J	mg/L		97	50 - 150	
Sulfate	0.500	0.4895	J	mg/L		98	50 - 150	

Lab Sample ID: MB 860-140246/13

Matrix: Water

Analysis Batch: 140246

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	mg/L			01/11/24 16:43	1
Nitrite as N	<0.0293	U	0.100	mg/L			01/11/24 16:43	1

Lab Sample ID: LCS 860-140246/14

Matrix: Water

Analysis Batch: 140246

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	5.00	4.969		mg/L		99	80 - 120	
Nitrite as N	5.00	5.094		mg/L		102	80 - 120	

Lab Sample ID: LCSD 860-140246/15

Matrix: Water

Analysis Batch: 140246

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	5.00	4.966		mg/L		99	80 - 120	0	20	
Nitrite as N	5.00	5.092		mg/L		102	80 - 120	0	20	

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QC Sample Results

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-37792-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-140246/16				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 140246							
Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1095		mg/L		109	50 - 150
Nitrite as N	0.100	0.07780	J	mg/L		78	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-140478/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 140478									
	MB	MB							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			01/12/24 10:32	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/12/24 10:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/12/24 10:32	1

Lab Sample ID: LCS 860-140478/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 140478							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	251.9		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-140478/5

Matrix: Water

Analysis Batch: 140478

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		Limits
Alkalinity	250	253.5		mg/L		101	85 - 115	1	20

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-37792-1

GC/MS VOA

Analysis Batch: 140248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Total/NA	Water	8260C	
880-37792-2	MW-2	Total/NA	Water	8260C	
MB 860-140248/10	Method Blank	Total/NA	Water	8260C	
LCS 860-140248/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-140248/4	Lab Control Sample Dup	Total/NA	Water	8260C	
880-37792-1 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
880-37792-1	MW-1	Total/NA	Water	8015 NM	
880-37792-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 140313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Total/NA	Water	8015B NM	140320
880-37792-2	MW-2	Total/NA	Water	8015B NM	140320
MB 860-140320/1-A	Method Blank	Total/NA	Water	8015B NM	140320
LCS 860-140320/2-A	Lab Control Sample	Total/NA	Water	8015B NM	140320
LCSD 860-140320/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	140320

Prep Batch: 140320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-37792-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-140320/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-140320/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-140320/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 140245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Total/NA	Water	300.0	
880-37792-2	MW-2	Total/NA	Water	300.0	
MB 860-140245/13	Method Blank	Total/NA	Water	300.0	
LCS 860-140245/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-140245/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-140245/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 140246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Total/NA	Water	300.0	
880-37792-2	MW-2	Total/NA	Water	300.0	
MB 860-140246/13	Method Blank	Total/NA	Water	300.0	
LCS 860-140246/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-140246/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-140246/16	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-37792-1

General Chemistry

Analysis Batch: 140411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Dissolved	Water	SM 4500 S2 D	140474

Analysis Batch: 140432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-37792-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Filtration Batch: 140474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 140478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Total/NA	Water	SM 2320B	
880-37792-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-140478/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-140478/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-140478/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 141232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37792-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-37792-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

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

Job ID: 880-37792-1

Client Sample ID: MW-1

Date Collected: 01/10/24 10:30

Date Received: 01/10/24 15:58

Lab Sample ID: 880-37792-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	140248	NA	EET HOU	01/11/24 19:04
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	01/12/24 13:55
Total/NA	Prep	8015NM Aq Prep			140320	TH	EET HOU	01/12/24 07:47
Total/NA	Analysis	8015B NM		1	140313	OH	EET HOU	01/12/24 13:55
Total/NA	Analysis	300.0		1	140245	RBNS	EET HOU	01/11/24 20:23
Total/NA	Analysis	300.0		1	140246	RBNS	EET HOU	01/11/24 20:23
Total/NA	Analysis	SM 2320B		1	140478	KEG	EET HOU	01/12/24 13:21
Total/NA	Analysis	SM 4500 CO2 D		1	141232	MC	EET HOU	01/18/24 20:15
Total/NA	Analysis	SM 4500 H+ B		1	140432	KEG	EET HOU	01/12/24 13:06
Dissolved	Filtration	Filtration			140474	SCI	EET HOU	01/12/24 14:40
Dissolved	Analysis	SM 4500 S2 D		1	140411	SCI	EET HOU	01/12/24 15:12

Client Sample ID: MW-2

Date Collected: 01/10/24 11:40

Date Received: 01/10/24 15:58

Lab Sample ID: 880-37792-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	140248	NA	EET HOU	01/11/24 19:25
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	01/12/24 14:15
Total/NA	Prep	8015NM Aq Prep			140320	TH	EET HOU	01/12/24 07:47
Total/NA	Analysis	8015B NM		1	140313	OH	EET HOU	01/12/24 14:15
Total/NA	Analysis	300.0		1	140245	RBNS	EET HOU	01/11/24 21:15
Total/NA	Analysis	300.0		1	140246	RBNS	EET HOU	01/11/24 21:15
Total/NA	Analysis	SM 2320B		1	140478	KEG	EET HOU	01/12/24 14:08
Total/NA	Analysis	SM 4500 CO2 D		1	141232	MC	EET HOU	01/18/24 20:15
Total/NA	Analysis	SM 4500 H+ B		1	140432	KEG	EET HOU	01/12/24 13:08

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: 880-37792-1

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: 880-37792-1

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: 880-37792-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37792-1	MW-1	Water	01/10/24 10:30	01/10/24 15:58
880-37792-2	MW-2	Water	01/10/24 11:40	01/10/24 15:58

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Houston, TX (281) 240-4200 Dallas, TX (214) 802-0300 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) 251-1111
Hobbs, NM (575-392-7550)

Chain of Custody



880-37792 Chain of Custody

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

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other: _____

Project Name:	South Hobbs	Turn Around
Project Number:	03B1417002	Routine ☐
P.O. Number:	03B1417002	Rush 24 Hr
Sampler's Name:	Shane Diller	Due Date

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	22/24						
Received Intact:	Yes No	Thermometer ID					
Cooler Custody Seals:	Yes No	Correction Factor:					
Sample Custody Seals:	Yes No	Total Containers:					

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
			<i>Circle Method(s) and Metal(s) to be analyzed</i>																															
			TCLP / SPLP	6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Tl	U													
																																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
		1/10/24			
		1550			

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: 880-37792-1

Login Number: 37792

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: 880-37792-1

Login Number: 37792
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 01/11/24 12:49 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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/19/2024 11:18:30 AM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-37988-1

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
1/19/2024 11:18:30 AM

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: 880-37988-1

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

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3

4

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6

7

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9

10

11

12

13

14

Definitions/Glossary

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

Job ID: 880-37988-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	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: South Hobbs - 03B1417002

Job ID: 880-37988-1

Job ID: 880-37988-1

Eurofins Midland

Job Narrative 880-37988-1

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 1/15/2024 4:37 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 4.5°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-140963 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The following samples were analyzed outside of analytical holding time due to lab error: MW-1 (880-37988-1) and MW-2 (880-37988-2).

Method 300_ORGFMS: The following samples were received outside of holding time: MW-1 (880-37988-1) and MW-2 (880-37988-2).

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

General Chemistry

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

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-37988-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-37988-1

Date Collected: 01/15/24 09:25

Matrix: Water

Date Received: 01/15/24 16:37

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		01/17/24 13:47	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/17/24 13:47	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/17/24 13:47	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/17/24 13:47	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/17/24 13:47	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/17/24 13:47	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/17/24 13:47	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/17/24 13:47	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/17/24 13:47	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/17/24 13:47	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/17/24 13:47	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/17/24 13:47	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/17/24 13:47	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/17/24 13:47	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/17/24 13:47	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/17/24 13:47	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/17/24 13:47	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/17/24 13:47	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/17/24 13:47	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/17/24 13:47	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/17/24 13:47	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/17/24 13:47	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/17/24 13:47	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/17/24 13:47	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/17/24 13:47	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/17/24 13:47	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/17/24 13:47	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/17/24 13:47	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/17/24 13:47	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/17/24 13:47	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		01/17/24 13:47	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/17/24 13:47	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		01/17/24 13:47	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		01/17/24 13:47	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		01/17/24 13:47	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/17/24 13:47	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/17/24 13:47	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/17/24 13:47	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		01/17/24 13:47	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		01/17/24 13:47	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/17/24 13:47	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/17/24 13:47	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/17/24 13:47	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/17/24 13:47	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/17/24 13:47	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/17/24 13:47	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/17/24 13:47	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		01/17/24 13:47	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		01/17/24 13:47	1

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Client Sample Results

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

Job ID: 880-37988-1

Client Sample ID: MW-1

Lab Sample ID: 880-37988-1

Date Collected: 01/15/24 09:25

Matrix: Water

Date Received: 01/15/24 16:37

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			01/17/24 13:47	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/17/24 13:47	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/17/24 13:47	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/17/24 13:47	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/17/24 13:47	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/17/24 13:47	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/17/24 13:47	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/17/24 13:47	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			01/17/24 13:47	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			01/17/24 13:47	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/17/24 13:47	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			01/17/24 13:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		74 - 124				01/17/24 13:47	1
Dibromofluoromethane (Surr)	98		75 - 131				01/17/24 13:47	1
1,2-Dichloroethane-d4 (Surr)	122		63 - 144				01/17/24 13:47	1
Toluene-d8 (Surr)	101		80 - 120				01/17/24 13:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.06	U	5.38	1.06 mg/L			01/18/24 14:03	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	<1.06	U	5.38	1.06 mg/L		01/18/24 11:47	01/18/24 14:03	1
Diesel Range Organics (Over C10-C28)	<1.06	U	5.38	1.06 mg/L		01/18/24 11:47	01/18/24 14:03	1
Oil Range Organics (Over C28-C36)	<1.03	U	5.38	1.03 mg/L		01/18/24 11:47	01/18/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135			01/18/24 11:47	01/18/24 14:03	1
o-Terphenyl	98		70 - 135			01/18/24 11:47	01/18/24 14:03	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		0.500	0.250 mg/L			01/18/24 03:55	1
Nitrate as N	0.0651	J H	0.100	0.0391 mg/L			01/18/24 03:55	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/18/24 03:55	1
Nitrite as N	<0.0293	U H	0.100	0.0293 mg/L			01/18/24 03:55	1
Sulfate	124		0.500	0.200 mg/L			01/18/24 03:55	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	897		4.00	4.00 mg/L			01/18/24 20:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	897		4.00	4.00 mg/L			01/18/24 20:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/18/24 20:33	1
Carbon dioxide (SM 4500 CO2 D)	1500			mg/L			01/19/24 12:09	1

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Client Sample Results

Client: Ensolum

Job ID: 880-37988-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-37988-1

Date Collected: 01/15/24 09:25

Matrix: Water

Date Received: 01/15/24 16:37

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	714			mg/L			01/19/24 12:09	1
pH (SM 4500 H+ B)	6.4	HF		SU			01/18/24 15:27	1
Temperature (SM 4500 H+ B)	19.0	HF		Celsius			01/18/24 15:27	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			01/17/24 17:48	1

Client Sample ID: MW-2

Lab Sample ID: 880-37988-2

Date Collected: 01/15/24 10:35

Matrix: Water

Date Received: 01/15/24 16:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0193		0.00100	0.000460 mg/L			01/17/24 14:06	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/17/24 14:06	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/17/24 14:06	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/17/24 14:06	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/17/24 14:06	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/17/24 14:06	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/17/24 14:06	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/17/24 14:06	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/17/24 14:06	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/17/24 14:06	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/17/24 14:06	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/17/24 14:06	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/17/24 14:06	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/17/24 14:06	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/17/24 14:06	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/17/24 14:06	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/17/24 14:06	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/17/24 14:06	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/17/24 14:06	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/17/24 14:06	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/17/24 14:06	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/17/24 14:06	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/17/24 14:06	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/17/24 14:06	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/17/24 14:06	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/17/24 14:06	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/17/24 14:06	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/17/24 14:06	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/17/24 14:06	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/17/24 14:06	1
Ethylbenzene	0.0135		0.00100	0.000385 mg/L			01/17/24 14:06	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/17/24 14:06	1
Isopropylbenzene	0.00963		0.00100	0.000592 mg/L			01/17/24 14:06	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/17/24 14:06	1
m,p-Xylenes	0.0637		0.0100	0.00124 mg/L			01/17/24 14:06	1

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Client Sample Results

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

Job ID: 880-37988-1

Client Sample ID: MW-2
Date Collected: 01/15/24 10:35
Date Received: 01/15/24 16:37

Lab Sample ID: 880-37988-2
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			01/17/24 14:06	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			01/17/24 14:06	1
n-Butylbenzene	0.000763	J	0.00100	0.000510	mg/L			01/17/24 14:06	1
N-Propylbenzene	0.00174		0.00100	0.000429	mg/L			01/17/24 14:06	1
o-Xylene	0.0165		0.00100	0.000502	mg/L			01/17/24 14:06	1
p-Cymene (p-Isopropyltoluene)	0.00101		0.00100	0.000676	mg/L			01/17/24 14:06	1
sec-Butylbenzene	0.00113		0.00100	0.000468	mg/L			01/17/24 14:06	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			01/17/24 14:06	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			01/17/24 14:06	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			01/17/24 14:06	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			01/17/24 14:06	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			01/17/24 14:06	1
Toluene	0.00304		0.00100	0.000475	mg/L			01/17/24 14:06	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			01/17/24 14:06	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			01/17/24 14:06	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			01/17/24 14:06	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			01/17/24 14:06	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			01/17/24 14:06	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			01/17/24 14:06	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			01/17/24 14:06	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			01/17/24 14:06	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			01/17/24 14:06	1
1,2,4-Trimethylbenzene	0.0395		0.00100	0.000417	mg/L			01/17/24 14:06	1
1,3,5-Trimethylbenzene	0.00920		0.00100	0.000411	mg/L			01/17/24 14:06	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			01/17/24 14:06	1
Xylenes, Total	0.0802		0.0100	0.00124	mg/L			01/17/24 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124					01/17/24 14:06	1
Dibromofluoromethane (Surr)	99		75 - 131					01/17/24 14:06	1
1,2-Dichloroethane-d4 (Surr)	124		63 - 144					01/17/24 14:06	1
Toluene-d8 (Surr)	100		80 - 120					01/17/24 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.05	U	5.32	1.05	mg/L			01/18/24 14:24	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	<1.05	U	5.32	1.05	mg/L		01/18/24 11:47	01/18/24 14:24	1
Diesel Range Organics (Over C10-C28)	<1.05	U	5.32	1.05	mg/L		01/18/24 11:47	01/18/24 14:24	1
Oil Range Organics (Over C28-C36)	<1.01	U	5.32	1.01	mg/L		01/18/24 11:47	01/18/24 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135				01/18/24 11:47	01/18/24 14:24	1
o-Terphenyl	98		70 - 135				01/18/24 11:47	01/18/24 14:24	1

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Client Sample Results

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

Job ID: 880-37988-1

Client Sample ID: MW-2
Date Collected: 01/15/24 10:35
Date Received: 01/15/24 16:37

Lab Sample ID: 880-37988-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.4		0.500	0.250	mg/L			01/18/24 04:14	1
Nitrate as N	0.173	H	0.100	0.0391	mg/L			01/18/24 04:14	1
Fluoride	0.554		0.500	0.100	mg/L			01/18/24 04:14	1
Nitrite as N	<0.0293	U H	0.100	0.0293	mg/L			01/18/24 04:14	1
Sulfate	85.8		0.500	0.200	mg/L			01/18/24 04:14	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1290		4.00	4.00	mg/L			01/18/24 20:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1290		4.00	4.00	mg/L			01/18/24 20:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/18/24 20:49	1
Carbon dioxide (SM 4500 CO2 D)	3720				mg/L			01/19/24 12:09	1
Carbon Dioxide, Free (SM 4500 CO2 D)	2580				mg/L			01/19/24 12:09	1
pH (SM 4500 H+ B)	6.0	HF			SU			01/18/24 15:27	1
Temperature (SM 4500 H+ B)	18.7	HF			Celsius			01/18/24 15:27	1

Surrogate Summary

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

Job ID: 880-37988-1

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)
880-37988-1	MW-1	99	98	122	101
880-37988-2	MW-2	97	99	124	100
LCS 860-140905/3	Lab Control Sample	94	94	102	98
LCSD 860-140905/4	Lab Control Sample Dup	97	97	100	98
MB 860-140905/9	Method Blank	97	100	120	101
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-135)	(70-135)
880-37988-1	MW-1	92	98
880-37988-2	MW-2	93	98
LCS 860-141122/2-A	Lab Control Sample	90	78
LCSD 860-141122/3-A	Lab Control Sample Dup	116	110
MB 860-141122/1-A	Method Blank	105	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-37988-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-140905/9

Matrix: Water

Analysis Batch: 140905

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			01/17/24 12:50	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/17/24 12:50	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/17/24 12:50	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/17/24 12:50	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/17/24 12:50	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/17/24 12:50	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/17/24 12:50	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/17/24 12:50	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/17/24 12:50	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/17/24 12:50	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/17/24 12:50	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/17/24 12:50	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/17/24 12:50	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/17/24 12:50	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/17/24 12:50	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/17/24 12:50	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/17/24 12:50	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/17/24 12:50	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/17/24 12:50	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/17/24 12:50	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/17/24 12:50	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/17/24 12:50	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/17/24 12:50	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/17/24 12:50	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/17/24 12:50	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/17/24 12:50	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/17/24 12:50	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/17/24 12:50	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/17/24 12:50	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/17/24 12:50	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			01/17/24 12:50	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/17/24 12:50	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			01/17/24 12:50	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/17/24 12:50	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			01/17/24 12:50	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/17/24 12:50	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/17/24 12:50	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/17/24 12:50	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			01/17/24 12:50	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			01/17/24 12:50	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			01/17/24 12:50	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/17/24 12:50	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/17/24 12:50	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/17/24 12:50	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/17/24 12:50	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/17/24 12:50	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/17/24 12:50	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			01/17/24 12:50	1

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QC Sample Results

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

Job ID: 880-37988-1

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

Lab Sample ID: MB 860-140905/9					Client Sample ID: Method Blank				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 140905									
	MB	MB							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			01/17/24 12:50	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			01/17/24 12:50	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			01/17/24 12:50	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			01/17/24 12:50	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			01/17/24 12:50	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			01/17/24 12:50	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			01/17/24 12:50	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			01/17/24 12:50	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			01/17/24 12:50	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L			01/17/24 12:50	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			01/17/24 12:50	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			01/17/24 12:50	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			01/17/24 12:50	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124					01/17/24 12:50	1
Dibromofluoromethane (Surr)	100		75 - 131					01/17/24 12:50	1
1,2-Dichloroethane-d4 (Surr)	120		63 - 144					01/17/24 12:50	1
Toluene-d8 (Surr)	101		80 - 120					01/17/24 12:50	1

Lab Sample ID: LCS 860-140905/3					Client Sample ID: Lab Control Sample				
Matrix: Water					Prep Type: Total/NA				
Analysis Batch: 140905									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.0500	0.04718		mg/L		94	75 - 125		
Bromobenzene	0.0500	0.04726		mg/L		95	75 - 125		
Bromochloromethane	0.0500	0.04876		mg/L		98	60 - 140		
Bromodichloromethane	0.0500	0.05048		mg/L		101	75 - 125		
Bromoform	0.0500	0.05328		mg/L		107	70 - 130		
Bromomethane	0.0500	0.04941		mg/L		99	60 - 140		
2-Butanone	0.250	0.2064		mg/L		83	60 - 140		
Carbon tetrachloride	0.0500	0.04969		mg/L		99	70 - 125		
Chlorobenzene	0.0500	0.04791		mg/L		96	82 - 135		
Chloroethane	0.0500	0.05659		mg/L		113	60 - 140		
Chloroform	0.0500	0.04715		mg/L		94	70 - 121		
Chloromethane	0.0500	0.04825		mg/L		97	60 - 140		
2-Chlorotoluene	0.0500	0.04666		mg/L		93	73 - 125		
4-Chlorotoluene	0.0500	0.04585		mg/L		92	74 - 125		
cis-1,2-Dichloroethene	0.0500	0.04355		mg/L		87	75 - 125		
cis-1,3-Dichloropropene	0.0500	0.04867		mg/L		97	74 - 125		
Dibromochloromethane	0.0500	0.05111		mg/L		102	73 - 125		
1,2-Dibromo-3-Chloropropane	0.0500	0.04890		mg/L		98	59 - 125		
1,2-Dibromoethane	0.0500	0.04689		mg/L		94	73 - 125		
1,2-Dichlorobenzene	0.0500	0.04815		mg/L		96	75 - 125		
1,3-Dichlorobenzene	0.0500	0.04845		mg/L		97	75 - 125		
1,4-Dichlorobenzene	0.0500	0.04734		mg/L		95	75 - 125		
Dichlorodifluoromethane	0.0500	0.04430		mg/L		89	50 - 150		

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QC Sample Results

Client: Ensolum

Job ID: 880-37988-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCS 860-140905/3

Matrix: Water

Analysis Batch: 140905

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	0.04359		mg/L		87	71 - 130
1,2-Dichloroethane	0.0500	0.05111		mg/L		102	72 - 130
1,1-Dichloroethene	0.0500	0.04686		mg/L		94	50 - 150
1,2-Dichloropropane	0.0500	0.04547		mg/L		91	74 - 125
1,3-Dichloropropane	0.0500	0.04586		mg/L		92	75 - 125
2,2-Dichloropropane	0.0500	0.04891		mg/L		98	75 - 125
1,1-Dichloropropene	0.0500	0.04487		mg/L		90	75 - 125
Ethylbenzene	0.0500	0.04947		mg/L		99	75 - 125
Hexachlorobutadiene	0.0500	0.05454		mg/L		109	75 - 125
Isopropylbenzene	0.0500	0.05188		mg/L		104	75 - 125
Methylene Chloride	0.0500	0.04204		mg/L		84	71 - 125
m,p-Xylenes	0.0500	0.05002		mg/L		100	75 - 125
MTBE	0.0500	0.04792		mg/L		96	65 - 135
Naphthalene	0.0500	0.05198		mg/L		104	70 - 130
n-Butylbenzene	0.0500	0.05059		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.04738		mg/L		95	75 - 125
o-Xylene	0.0500	0.05100		mg/L		102	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05113		mg/L		102	75 - 125
sec-Butylbenzene	0.0500	0.04893		mg/L		98	75 - 125
Styrene	0.0500	0.05267		mg/L		105	75 - 125
tert-Butylbenzene	0.0500	0.04863		mg/L		97	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05072		mg/L		101	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.04337		mg/L		87	74 - 125
Tetrachloroethene	0.0500	0.04787		mg/L		96	71 - 125
Toluene	0.0500	0.04611		mg/L		92	75 - 130
trans-1,2-Dichloroethene	0.0500	0.04547		mg/L		91	75 - 125
trans-1,3-Dichloropropene	0.0500	0.04905		mg/L		98	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05157		mg/L		103	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05098		mg/L		102	75 - 135
1,1,1-Trichloroethane	0.0500	0.04920		mg/L		98	70 - 130
1,1,2-Trichloroethane	0.0500	0.04548		mg/L		91	75 - 130
Trichloroethene	0.0500	0.04873		mg/L		97	75 - 135
Trichlorofluoromethane	0.0500	0.05022		mg/L		100	60 - 140
1,2,3-Trichloropropane	0.0500	0.04510		mg/L		90	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.04882		mg/L		98	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.04851		mg/L		97	60 - 140
Vinyl chloride	0.0500	0.04647		mg/L		93	60 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		74 - 124
Dibromofluoromethane (Surr)	94		75 - 131
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
Toluene-d8 (Surr)	98		80 - 120

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QC Sample Results

Client: Ensolum

Job ID: 880-37988-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-140905/4

Matrix: Water

Analysis Batch: 140905

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	0.04453		mg/L		89	75 - 125	6	25
Bromobenzene	0.0500	0.04297		mg/L		86	75 - 125	9	25
Bromochloromethane	0.0500	0.04545		mg/L		91	60 - 140	7	25
Bromodichloromethane	0.0500	0.04877		mg/L		98	75 - 125	3	25
Bromoform	0.0500	0.04803		mg/L		96	70 - 130	10	25
Bromomethane	0.0500	0.04124		mg/L		82	60 - 140	18	25
2-Butanone	0.250	0.2027		mg/L		81	60 - 140	2	25
Carbon tetrachloride	0.0500	0.04678		mg/L		94	70 - 125	6	25
Chlorobenzene	0.0500	0.04365		mg/L		87	82 - 135	9	25
Chloroethane	0.0500	0.04383		mg/L		88	60 - 140	25	25
Chloroform	0.0500	0.04461		mg/L		89	70 - 121	6	25
Chloromethane	0.0500	0.04211		mg/L		84	60 - 140	14	25
2-Chlorotoluene	0.0500	0.04404		mg/L		88	73 - 125	6	25
4-Chlorotoluene	0.0500	0.04414		mg/L		88	74 - 125	4	25
cis-1,2-Dichloroethene	0.0500	0.04122		mg/L		82	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.04852		mg/L		97	74 - 125	0	25
Dibromochloromethane	0.0500	0.04837		mg/L		97	73 - 125	6	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04355		mg/L		87	59 - 125	12	25
1,2-Dibromoethane	0.0500	0.04561		mg/L		91	73 - 125	3	25
1,2-Dichlorobenzene	0.0500	0.04392		mg/L		88	75 - 125	9	25
1,3-Dichlorobenzene	0.0500	0.04484		mg/L		90	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.04420		mg/L		88	75 - 125	7	25
Dichlorodifluoromethane	0.0500	0.03906		mg/L		78	50 - 150	13	25
1,1-Dichloroethane	0.0500	0.04010		mg/L		80	71 - 130	8	25
1,2-Dichloroethane	0.0500	0.04983		mg/L		100	72 - 130	3	25
1,1-Dichloroethene	0.0500	0.03682		mg/L		74	50 - 150	24	25
1,2-Dichloropropane	0.0500	0.04883		mg/L		98	74 - 125	7	25
1,3-Dichloropropane	0.0500	0.04656		mg/L		93	75 - 125	2	25
2,2-Dichloropropane	0.0500	0.04326		mg/L		87	75 - 125	12	25
1,1-Dichloropropene	0.0500	0.04301		mg/L		86	75 - 125	4	25
Ethylbenzene	0.0500	0.04562		mg/L		91	75 - 125	8	25
Hexachlorobutadiene	0.0500	0.04690		mg/L		94	75 - 125	15	25
Isopropylbenzene	0.0500	0.04623		mg/L		92	75 - 125	12	25
Methylene Chloride	0.0500	0.03777		mg/L		76	71 - 125	11	25
m,p-Xylenes	0.0500	0.04549		mg/L		91	75 - 125	9	25
MTBE	0.0500	0.04500		mg/L		90	65 - 135	6	25
Naphthalene	0.0500	0.04847		mg/L		97	70 - 130	7	25
n-Butylbenzene	0.0500	0.04630		mg/L		93	75 - 125	9	25
N-Propylbenzene	0.0500	0.04448		mg/L		89	75 - 125	6	25
o-Xylene	0.0500	0.04419		mg/L		88	75 - 125	14	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04695		mg/L		94	75 - 125	9	25
sec-Butylbenzene	0.0500	0.04608		mg/L		92	75 - 125	6	25
Styrene	0.0500	0.04571		mg/L		91	75 - 125	14	25
tert-Butylbenzene	0.0500	0.04376		mg/L		88	75 - 125	11	25
1,1,1,2-Tetrachloroethane	0.0500	0.04655		mg/L		93	72 - 125	9	25
1,1,2,2-Tetrachloroethane	0.0500	0.04496		mg/L		90	74 - 125	4	25
Tetrachloroethene	0.0500	0.04311		mg/L		86	71 - 125	10	25
Toluene	0.0500	0.04331		mg/L		87	75 - 130	6	25

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QC Sample Results

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

Job ID: 880-37988-1

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

Lab Sample ID: LCSD 860-140905/4
Matrix: Water
Analysis Batch: 140905

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	0.04054		mg/L		81	75 - 125	11	25
trans-1,3-Dichloropropene	0.0500	0.04809		mg/L		96	66 - 125	2	25
1,2,3-Trichlorobenzene	0.0500	0.04661		mg/L		93	75 - 137	10	25
1,2,4-Trichlorobenzene	0.0500	0.04627		mg/L		93	75 - 135	10	25
1,1,1-Trichloroethane	0.0500	0.04521		mg/L		90	70 - 130	8	25
1,1,2-Trichloroethane	0.0500	0.04534		mg/L		91	75 - 130	0	25
Trichloroethene	0.0500	0.04473		mg/L		89	75 - 135	9	25
Trichlorofluoromethane	0.0500	0.04190		mg/L		84	60 - 140	18	25
1,2,3-Trichloropropane	0.0500	0.04616		mg/L		92	75 - 125	2	25
1,2,4-Trimethylbenzene	0.0500	0.04541		mg/L		91	75 - 125	7	25
1,3,5-Trimethylbenzene	0.0500	0.04498		mg/L		90	60 - 140	8	25
Vinyl chloride	0.0500	0.04072		mg/L		81	60 - 140	13	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
Toluene-d8 (Surr)	98		80 - 120

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

Lab Sample ID: MB 860-141122/1-A
Matrix: Water
Analysis Batch: 141047

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141122

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.07	U	5.40	1.07 mg/L		01/18/24 11:47	01/18/24 13:43	1
Diesel Range Organics (Over C10-C28)	<1.07	U	5.40	1.07 mg/L		01/18/24 11:47	01/18/24 13:43	1
Oil Range Organics (Over C28-C36)	<1.03	U	5.40	1.03 mg/L		01/18/24 11:47	01/18/24 13:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135	01/18/24 11:47	01/18/24 13:43	1
o-Terphenyl	109		70 - 135	01/18/24 11:47	01/18/24 13:43	1

Lab Sample ID: LCS 860-141122/2-A
Matrix: Water
Analysis Batch: 141047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	106	106.1		mg/L		100	70 - 135
Diesel Range Organics (Over C10-C28)	106	103.5		mg/L		98	70 - 135

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-37988-1

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

Lab Sample ID: LCSD 860-141122/3-A
Matrix: Water
Analysis Batch: 141047

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141122

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	107	118.3		mg/L		110	70 - 135	11	35
Diesel Range Organics (Over C10-C28)	107	118.8		mg/L		111	70 - 135	14	35

Surrogate

LCSD %Recovery

LCSD Qualifier

Limits

1-Chlorooctane	116		70 - 135
o-Terphenyl	110		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-140963/3
Matrix: Water
Analysis Batch: 140963

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			01/17/24 15:57	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/17/24 15:57	1
Sulfate	<0.200	U	0.500	0.200 mg/L			01/17/24 15:57	1

Lab Sample ID: LCS 860-140963/4
Matrix: Water
Analysis Batch: 140963

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.53		mg/L		105	90 - 110
Fluoride	10.0	10.59		mg/L		106	90 - 110
Sulfate	10.0	10.79		mg/L		108	90 - 110

Lab Sample ID: LCSD 860-140963/5
Matrix: Water
Analysis Batch: 140963

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	10.50		mg/L		105	90 - 110	0	20
Fluoride	10.0	10.53		mg/L		105	90 - 110	1	20
Sulfate	10.0	10.69		mg/L		107	90 - 110	1	20

Lab Sample ID: LLCS 860-140963/7
Matrix: Water
Analysis Batch: 140963

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	0.4973	J	mg/L		99	50 - 150
Fluoride	0.500	0.4651	J	mg/L		93	50 - 150
Sulfate	0.500	0.3493	J	mg/L		70	50 - 150

QC Sample Results

Client: Ensolum

Job ID: 880-37988-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-140964/3

Matrix: Water

Analysis Batch: 140964

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			01/17/24 15:57	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/17/24 15:57	1

Lab Sample ID: LCS 860-140964/4

Matrix: Water

Analysis Batch: 140964

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	10.58		mg/L		106	80 - 120
Nitrite as N	10.0	10.32		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-140964/5

Matrix: Water

Analysis Batch: 140964

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	10.56		mg/L		106	80 - 120	0	20
Nitrite as N	10.0	10.35		mg/L		104	80 - 120	0	20

Lab Sample ID: LLCS 860-140964/6

Matrix: Water

Analysis Batch: 140964

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	0.09900	J	mg/L		99	50 - 150
Nitrite as N	0.100	0.08474	J	mg/L		85	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-141314/65

Matrix: Water

Analysis Batch: 141314

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			01/18/24 19:33	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/18/24 19:33	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/18/24 19:33	1

Lab Sample ID: LCS 860-141314/66

Matrix: Water

Analysis Batch: 141314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	251.8		mg/L		101	85 - 115

Eurofins Midland

QC Sample Results

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

Job ID: 880-37988-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-141314/67					Client Sample ID: Lab Control Sample Dup					
Matrix: Water					Prep Type: Total/NA					
Analysis Batch: 141314										

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

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-37988-1

GC/MS VOA

Analysis Batch: 140905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Total/NA	Water	8260C	
880-37988-2	MW-2	Total/NA	Water	8260C	
MB 860-140905/9	Method Blank	Total/NA	Water	8260C	
LCS 860-140905/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-140905/4	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
880-37988-1	MW-1	Total/NA	Water	8015 NM	
880-37988-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 141047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Total/NA	Water	8015B NM	141122
880-37988-2	MW-2	Total/NA	Water	8015B NM	141122
MB 860-141122/1-A	Method Blank	Total/NA	Water	8015B NM	141122
LCS 860-141122/2-A	Lab Control Sample	Total/NA	Water	8015B NM	141122
LCSD 860-141122/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	141122

Prep Batch: 141122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-37988-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-141122/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-141122/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-141122/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 140963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Total/NA	Water	300.0	
880-37988-2	MW-2	Total/NA	Water	300.0	
MB 860-140963/3	Method Blank	Total/NA	Water	300.0	
LCS 860-140963/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-140963/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-140963/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 140964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Total/NA	Water	300.0	
880-37988-2	MW-2	Total/NA	Water	300.0	
MB 860-140964/3	Method Blank	Total/NA	Water	300.0	
LCS 860-140964/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-140964/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-140964/6	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

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

Job ID: 880-37988-1

General Chemistry

Analysis Batch: 141007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Dissolved	Water	SM 4500 S2 D	141012

Filtration Batch: 141012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 141179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-37988-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 141232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-37988-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 141314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37988-1	MW-1	Total/NA	Water	SM 2320B	
880-37988-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-141314/65	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-141314/66	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-141314/67	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-37988-1

Client Sample ID: MW-1

Date Collected: 01/15/24 09:25

Date Received: 01/15/24 16:37

Lab Sample ID: 880-37988-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	140905	AN	EET HOU	01/17/24 13:47
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	01/18/24 14:03
Total/NA	Prep	8015NM Aq Prep			141122	BH	EET HOU	01/18/24 11:47
Total/NA	Analysis	8015B NM		1	141047	OH	EET HOU	01/18/24 14:03
Total/NA	Analysis	300.0		1	140963	WP	EET HOU	01/18/24 03:55
Total/NA	Analysis	300.0		1	140964	WP	EET HOU	01/18/24 03:55
Total/NA	Analysis	SM 2320B		1	141314	KEG	EET HOU	01/18/24 20:33
Total/NA	Analysis	SM 4500 CO2 D		1	141232	MC	EET HOU	01/19/24 12:09
Total/NA	Analysis	SM 4500 H+ B		1	141179	KEG	EET HOU	01/18/24 15:27
Dissolved	Filtration	Filtration			141012	SCI	EET HOU	01/17/24 17:20
Dissolved	Analysis	SM 4500 S2 D		1	141007	SCI	EET HOU	01/17/24 17:48

Client Sample ID: MW-2

Date Collected: 01/15/24 10:35

Date Received: 01/15/24 16:37

Lab Sample ID: 880-37988-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	140905	AN	EET HOU	01/17/24 14:06
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	01/18/24 14:24
Total/NA	Prep	8015NM Aq Prep			141122	BH	EET HOU	01/18/24 11:47
Total/NA	Analysis	8015B NM		1	141047	OH	EET HOU	01/18/24 14:24
Total/NA	Analysis	300.0		1	140963	WP	EET HOU	01/18/24 04:14
Total/NA	Analysis	300.0		1	140964	WP	EET HOU	01/18/24 04:14
Total/NA	Analysis	SM 2320B		1	141314	KEG	EET HOU	01/18/24 20:49
Total/NA	Analysis	SM 4500 CO2 D		1	141232	MC	EET HOU	01/19/24 12:09
Total/NA	Analysis	SM 4500 H+ B		1	141179	KEG	EET HOU	01/18/24 15:27

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: 880-37988-1

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: 880-37988-1

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: 880-37988-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37988-1	MW-1	Water	01/15/24 09:25	01/15/24 16:37
880-37988-2	MW-2	Water	01/15/24 10:35	01/15/24 16:37

- 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)

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:	bennings@ensolum.com

Project Name:	South Hobbs	Turn Around	
Project Number:	03B1417002	Routine	☐
P.O. Number:	03B1417002	Rush 24 Hr	☐
Sampler's Name:	Shane Diller	Due Date	

SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	4.24-5	Thermometer ID	N/A		
Received Intact:	Yes No	Correction Factor:	N/A		
Cooler Custody Seals:	Yes No	Total Containers:	4-20		
Sample Custody Seals:	Yes No				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
MW-1	GW	1-15-24	0925	
MW-2	GW	1-15-24	1035	
N/A				
1-15-24				

ANALYSIS REQUEST										Work Order Notes			
Number of Containers	7	Dissolved Carbon Dioxide 4500 CO2 c	7	Dissolved Sulfide SW-846 #376.2	7	VOC SW-846 #8260	7	TPH EPA Method #8015	7	Chloride EPA Method #846 300	7	pH EPA SW-846 Method 150.1	
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 Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1631 / 245.1 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1/15/24			
		1/15/24			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-37988-1

Login Number: 37988
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: 880-37988-1

Login Number: 37988
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 01/17/24 11:22 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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
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- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/31/2024 2:18:53 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-38497-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/31/2024 2:18:53 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: 880-38497-1

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	28

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: 880-38497-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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: South Hobbs - 03B1417002

Job ID: 880-38497-1

Job ID: 880-38497-1

Eurofins Midland

Job Narrative 880-38497-1

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 1/25/2024 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

GC/MS VOA

Method 8260C: The method blank for analytical batch 860-142282 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: MW-2 (880-38497-2). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits. therefore, the original analysis is reported.

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 860-142422 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.

General Chemistry

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

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Client Sample Results

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

Job ID: 880-38497-1

Client Sample ID: MW-1

Lab Sample ID: 880-38497-1

Date Collected: 01/25/24 10:30

Matrix: Water

Date Received: 01/25/24 15:40

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			01/26/24 15:59	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/26/24 15:59	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/26/24 15:59	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/26/24 15:59	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/26/24 15:59	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/26/24 15:59	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/26/24 15:59	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/26/24 15:59	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/26/24 15:59	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/26/24 15:59	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/26/24 15:59	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/26/24 15:59	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/26/24 15:59	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/26/24 15:59	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/26/24 15:59	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/26/24 15:59	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/26/24 15:59	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/26/24 15:59	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/26/24 15:59	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/26/24 15:59	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/26/24 15:59	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/26/24 15:59	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/26/24 15:59	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/26/24 15:59	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/26/24 15:59	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/26/24 15:59	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/26/24 15:59	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/26/24 15:59	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/26/24 15:59	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/26/24 15:59	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			01/26/24 15:59	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/26/24 15:59	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			01/26/24 15:59	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/26/24 15:59	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			01/26/24 15:59	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/26/24 15:59	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/26/24 15:59	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/26/24 15:59	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			01/26/24 15:59	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			01/26/24 15:59	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			01/26/24 15:59	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/26/24 15:59	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/26/24 15:59	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/26/24 15:59	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/26/24 15:59	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/26/24 15:59	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/26/24 15:59	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			01/26/24 15:59	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			01/26/24 15:59	1

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Client Sample Results

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

Job ID: 880-38497-1

Client Sample ID: MW-1

Lab Sample ID: 880-38497-1

Date Collected: 01/25/24 10:30

Matrix: Water

Date Received: 01/25/24 15:40

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			01/26/24 15:59	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/26/24 15:59	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/26/24 15:59	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/26/24 15:59	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/26/24 15:59	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/26/24 15:59	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/26/24 15:59	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/26/24 15:59	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			01/26/24 15:59	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			01/26/24 15:59	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/26/24 15:59	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			01/26/24 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124				01/26/24 15:59	1
Dibromofluoromethane (Surr)	100		75 - 131				01/26/24 15:59	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144				01/26/24 15:59	1
Toluene-d8 (Surr)	100		80 - 120				01/26/24 15:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.965	U	4.89	0.965 mg/L			01/26/24 16:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.965	U	4.89	0.965 mg/L		01/26/24 12:01	01/26/24 16:56	1
Diesel Range Organics (Over C10-C28)	<0.965	U	4.89	0.965 mg/L		01/26/24 12:01	01/26/24 16:56	1
Oil Range Organics (Over C28-C36)	<0.932	U	4.89	0.932 mg/L		01/26/24 12:01	01/26/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135			01/26/24 12:01	01/26/24 16:56	1
o-Terphenyl	90		70 - 135			01/26/24 12:01	01/26/24 16:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		0.500	0.250 mg/L			01/27/24 11:08	1
Nitrate as N	0.125		0.100	0.0391 mg/L			01/27/24 11:08	1
Fluoride	0.508		0.500	0.100 mg/L			01/27/24 11:08	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/27/24 11:08	1
Sulfate	116		0.500	0.200 mg/L			01/27/24 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	962		4.00	4.00 mg/L			01/29/24 12:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	962		4.00	4.00 mg/L			01/29/24 12:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			01/29/24 12:53	1
Carbon dioxide (SM 4500 CO2 D)	1230			mg/L			01/31/24 14:07	1

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Client Sample Results

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

Job ID: 880-38497-1

Client Sample ID: MW-1

Lab Sample ID: 880-38497-1

Date Collected: 01/25/24 10:30

Matrix: Water

Date Received: 01/25/24 15:40

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	384			mg/L			01/31/24 14:07	1	
pH (SM 4500 H+ B)	6.7	HF		SU			01/30/24 14:41	1	
Temperature (SM 4500 H+ B)	18.0	HF		Degrees C			01/30/24 14:41	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			01/26/24 18:42	1	

Client Sample ID: MW-2

Lab Sample ID: 880-38497-2

Date Collected: 01/25/24 11:25

Matrix: Water

Date Received: 01/25/24 15:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	0.0204		0.00100	0.000460 mg/L			01/26/24 16:20	1	
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/26/24 16:20	1	
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/26/24 16:20	1	
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/26/24 16:20	1	
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/26/24 16:20	1	
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/26/24 16:20	1	
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/26/24 16:20	1	
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/26/24 16:20	1	
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/26/24 16:20	1	
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/26/24 16:20	1	
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/26/24 16:20	1	
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/26/24 16:20	1	
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/26/24 16:20	1	
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/26/24 16:20	1	
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/26/24 16:20	1	
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/26/24 16:20	1	
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/26/24 16:20	1	
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/26/24 16:20	1	
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/26/24 16:20	1	
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/26/24 16:20	1	
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/26/24 16:20	1	
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/26/24 16:20	1	
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/26/24 16:20	1	
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/26/24 16:20	1	
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/26/24 16:20	1	
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/26/24 16:20	1	
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/26/24 16:20	1	
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/26/24 16:20	1	
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/26/24 16:20	1	
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/26/24 16:20	1	
Ethylbenzene	0.0259		0.00100	0.000385 mg/L			01/26/24 16:20	1	
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/26/24 16:20	1	
Isopropylbenzene	0.0109		0.00100	0.000592 mg/L			01/26/24 16:20	1	
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/26/24 16:20	1	
m,p-Xylenes	0.0527		0.0100	0.00124 mg/L			01/26/24 16:20	1	

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Client Sample Results

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

Job ID: 880-38497-1

Client Sample ID: MW-2

Lab Sample ID: 880-38497-2

Date Collected: 01/25/24 11:25

Matrix: Water

Date Received: 01/25/24 15:40

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			01/26/24 16:20	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/26/24 16:20	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/26/24 16:20	1
N-Propylbenzene	0.00301		0.00100	0.000429 mg/L			01/26/24 16:20	1
o-Xylene	0.0217		0.00100	0.000502 mg/L			01/26/24 16:20	1
p-Cymene (p-Isopropyltoluene)	0.000795 J		0.00100	0.000676 mg/L			01/26/24 16:20	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/26/24 16:20	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/26/24 16:20	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/26/24 16:20	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/26/24 16:20	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/26/24 16:20	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/26/24 16:20	1
Toluene	0.00451		0.00100	0.000475 mg/L			01/26/24 16:20	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368 mg/L			01/26/24 16:20	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			01/26/24 16:20	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/26/24 16:20	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/26/24 16:20	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/26/24 16:20	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/26/24 16:20	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/26/24 16:20	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/26/24 16:20	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/26/24 16:20	1
1,2,4-Trimethylbenzene	0.0310		0.00100	0.000417 mg/L			01/26/24 16:20	1
1,3,5-Trimethylbenzene	0.00826		0.00100	0.000411 mg/L			01/26/24 16:20	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/26/24 16:20	1
Xylenes, Total	0.0744		0.0100	0.00124 mg/L			01/26/24 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		01/26/24 16:20	1
Dibromofluoromethane (Surr)	98		75 - 131		01/26/24 16:20	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		01/26/24 16:20	1
Toluene-d8 (Surr)	98		80 - 120		01/26/24 16:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.956	U	4.84	0.956 mg/L			01/26/24 16:56	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	<0.956	U	4.84	0.956 mg/L		01/26/24 14:37	01/26/24 16:56	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956 mg/L		01/26/24 14:37	01/26/24 16:56	1
Oil Range Organics (Over C28-C36)	<0.923	U	4.84	0.923 mg/L		01/26/24 14:37	01/26/24 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 135	01/26/24 14:37	01/26/24 16:56	1
o-Terphenyl	68	S1-	70 - 135	01/26/24 14:37	01/26/24 16:56	1

Eurofins Midland

Client Sample Results

Client: Ensolum

Job ID: 880-38497-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-2

Lab Sample ID: 880-38497-2

Date Collected: 01/25/24 11:25

Matrix: Water

Date Received: 01/25/24 15:40

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.5		0.500	0.250	mg/L			01/27/24 11:33	1
Nitrate as N	0.369		0.100	0.0391	mg/L			01/27/24 11:33	1
Fluoride	0.211	J	0.500	0.100	mg/L			01/27/24 11:33	1
Nitrite as N	1.10		0.100	0.0293	mg/L			01/27/24 11:33	1
Sulfate	84.0		0.500	0.200	mg/L			01/27/24 11:33	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1360		4.00	4.00	mg/L			01/29/24 13:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1360		4.00	4.00	mg/L			01/29/24 13:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/29/24 13:09	1
Carbon dioxide (SM 4500 CO2 D)	2280				mg/L			01/31/24 14:07	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1080				mg/L			01/31/24 14:07	1
pH (SM 4500 H+ B)	6.4	HF			SU			01/30/24 14:43	1
Temperature (SM 4500 H+ B)	18.2	HF			Degrees C			01/30/24 14:43	1

Surrogate Summary

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

Job ID: 880-38497-1

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)
880-38497-1	MW-1	97	100	103	100
880-38497-2	MW-2	97	98	102	98
LCS 860-142282/3	Lab Control Sample	95	99	98	102
LCSD 860-142282/4	Lab Control Sample Dup	100	97	97	102
MB 860-142282/10	Method Blank	95	100	103	100
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-135)	(70-135)
880-38497-1	MW-1	91	90
880-38497-2	MW-2	61 S1-	68 S1-
LCS 860-142389/2-A	Lab Control Sample	105	85
LCSD 860-142389/3-A	Lab Control Sample Dup	95	85
MB 860-142389/1-A	Method Blank	81	89
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-38497-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-142282/10

Matrix: Water

Analysis Batch: 142282

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.000460	U	0.00100	0.000460	mg/L		01/26/24 09:50	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/26/24 09:50	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/26/24 09:50	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/26/24 09:50	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/26/24 09:50	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/26/24 09:50	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/26/24 09:50	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/26/24 09:50	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/26/24 09:50	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/26/24 09:50	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/26/24 09:50	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/26/24 09:50	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/26/24 09:50	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/26/24 09:50	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/26/24 09:50	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/26/24 09:50	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/26/24 09:50	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/26/24 09:50	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/26/24 09:50	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/26/24 09:50	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/26/24 09:50	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/26/24 09:50	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/26/24 09:50	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/26/24 09:50	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/26/24 09:50	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/26/24 09:50	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/26/24 09:50	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/26/24 09:50	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/26/24 09:50	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/26/24 09:50	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		01/26/24 09:50	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/26/24 09:50	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		01/26/24 09:50	1
Methylene Chloride	0.001781	J	0.00500	0.00173	mg/L		01/26/24 09:50	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		01/26/24 09:50	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/26/24 09:50	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/26/24 09:50	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/26/24 09:50	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		01/26/24 09:50	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		01/26/24 09:50	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/26/24 09:50	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/26/24 09:50	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/26/24 09:50	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/26/24 09:50	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/26/24 09:50	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/26/24 09:50	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/26/24 09:50	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		01/26/24 09:50	1

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QC Sample Results

Client: Ensolum

Job ID: 880-38497-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-142282/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 142282

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		01/26/24 09:50	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		01/26/24 09:50	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		01/26/24 09:50	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		01/26/24 09:50	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		01/26/24 09:50	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		01/26/24 09:50	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		01/26/24 09:50	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		01/26/24 09:50	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		01/26/24 09:50	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		01/26/24 09:50	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		01/26/24 09:50	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		01/26/24 09:50	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		01/26/24 09:50	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	95		74 - 124		01/26/24 09:50	1		
Dibromofluoromethane (Surr)	100		75 - 131		01/26/24 09:50	1		
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		01/26/24 09:50	1		
Toluene-d8 (Surr)	100		80 - 120		01/26/24 09:50	1		

Lab Sample ID: LCS 860-142282/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 142282

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.05122		mg/L		102	75 - 125
Bromobenzene	0.0500	0.05254		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05375		mg/L		108	60 - 140
Bromodichloromethane	0.0500	0.05357		mg/L		107	75 - 125
Bromoform	0.0500	0.05781		mg/L		116	70 - 130
Bromomethane	0.0500	0.04948		mg/L		99	60 - 140
2-Butanone	0.250	0.2432		mg/L		97	60 - 140
Carbon tetrachloride	0.0500	0.05082		mg/L		102	70 - 125
Chlorobenzene	0.0500	0.05331		mg/L		107	82 - 135
Chloroethane	0.0500	0.04813		mg/L		96	60 - 140
Chloroform	0.0500	0.05146		mg/L		103	70 - 121
Chloromethane	0.0500	0.05227		mg/L		105	60 - 140
2-Chlorotoluene	0.0500	0.05098		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05092		mg/L		102	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05116		mg/L		102	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05158		mg/L		103	74 - 125
Dibromochloromethane	0.0500	0.05640		mg/L		113	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.05566		mg/L		111	59 - 125
1,2-Dibromoethane	0.0500	0.05447		mg/L		109	73 - 125
1,2-Dichlorobenzene	0.0500	0.05296		mg/L		106	75 - 125
1,3-Dichlorobenzene	0.0500	0.05181		mg/L		104	75 - 125
1,4-Dichlorobenzene	0.0500	0.05078		mg/L		102	75 - 125
Dichlorodifluoromethane	0.0500	0.06558		mg/L		131	50 - 150

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QC Sample Results

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

Job ID: 880-38497-1

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

Lab Sample ID: LCS 860-142282/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 142282							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0500	0.05239		mg/L		105	71 - 130
1,2-Dichloroethane	0.0500	0.05122		mg/L		102	72 - 130
1,1-Dichloroethene	0.0500	0.04808		mg/L		96	50 - 150
1,2-Dichloropropane	0.0500	0.05191		mg/L		104	74 - 125
1,3-Dichloropropane	0.0500	0.05416		mg/L		108	75 - 125
2,2-Dichloropropane	0.0500	0.05199		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04844		mg/L		97	75 - 125
Ethylbenzene	0.0500	0.05274		mg/L		105	75 - 125
Hexachlorobutadiene	0.0500	0.05209		mg/L		104	75 - 125
Isopropylbenzene	0.0500	0.05430		mg/L		109	75 - 125
Methylene Chloride	0.0500	0.04975		mg/L		99	71 - 125
m,p-Xylenes	0.0500	0.05337		mg/L		107	75 - 125
MTBE	0.0500	0.05527		mg/L		111	65 - 135
Naphthalene	0.0500	0.05505		mg/L		110	70 - 130
n-Butylbenzene	0.0500	0.04969		mg/L		99	75 - 125
N-Propylbenzene	0.0500	0.05070		mg/L		101	75 - 125
o-Xylene	0.0500	0.05388		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05233		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05125		mg/L		102	75 - 125
Styrene	0.0500	0.05489		mg/L		110	75 - 125
tert-Butylbenzene	0.0500	0.05257		mg/L		105	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05520		mg/L		110	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05439		mg/L		109	74 - 125
Tetrachloroethene	0.0500	0.05091		mg/L		102	71 - 125
Toluene	0.0500	0.05211		mg/L		104	75 - 130
trans-1,2-Dichloroethene	0.0500	0.05118		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05302		mg/L		106	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05248		mg/L		105	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05146		mg/L		103	75 - 135
1,1,1-Trichloroethane	0.0500	0.05042		mg/L		101	70 - 130
1,1,2-Trichloroethane	0.0500	0.05448		mg/L		109	75 - 130
Trichloroethene	0.0500	0.05184		mg/L		104	75 - 135
Trichlorofluoromethane	0.0500	0.04848		mg/L		97	60 - 140
1,2,3-Trichloropropane	0.0500	0.05074		mg/L		101	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05288		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05198		mg/L		104	60 - 140
Vinyl chloride	0.0500	0.04917		mg/L		98	60 - 140
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	95		74 - 124				
Dibromofluoromethane (Surr)	99		75 - 131				
1,2-Dichloroethane-d4 (Surr)	98		63 - 144				
Toluene-d8 (Surr)	102		80 - 120				

QC Sample Results

Client: Ensolum

Job ID: 880-38497-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-142282/4

Matrix: Water

Analysis Batch: 142282

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	0.05027		mg/L		101	75 - 125	2	25
Bromobenzene	0.0500	0.05581		mg/L		112	75 - 125	6	25
Bromochloromethane	0.0500	0.05301		mg/L		106	60 - 140	1	25
Bromodichloromethane	0.0500	0.05241		mg/L		105	75 - 125	2	25
Bromoform	0.0500	0.05967		mg/L		119	70 - 130	3	25
Bromomethane	0.0500	0.04753		mg/L		95	60 - 140	4	25
2-Butanone	0.250	0.2468		mg/L		99	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04849		mg/L		97	70 - 125	5	25
Chlorobenzene	0.0500	0.05388		mg/L		108	82 - 135	1	25
Chloroethane	0.0500	0.04702		mg/L		94	60 - 140	2	25
Chloroform	0.0500	0.05008		mg/L		100	70 - 121	3	25
Chloromethane	0.0500	0.05072		mg/L		101	60 - 140	3	25
2-Chlorotoluene	0.0500	0.05426		mg/L		109	73 - 125	6	25
4-Chlorotoluene	0.0500	0.05403		mg/L		108	74 - 125	6	25
cis-1,2-Dichloroethene	0.0500	0.05003		mg/L		100	75 - 125	2	25
cis-1,3-Dichloropropene	0.0500	0.05090		mg/L		102	74 - 125	1	25
Dibromochloromethane	0.0500	0.05747		mg/L		115	73 - 125	2	25
1,2-Dibromo-3-Chloropropane	0.0500	0.06158		mg/L		123	59 - 125	10	25
1,2-Dibromoethane	0.0500	0.05664		mg/L		113	73 - 125	4	25
1,2-Dichlorobenzene	0.0500	0.05691		mg/L		114	75 - 125	7	25
1,3-Dichlorobenzene	0.0500	0.05560		mg/L		111	75 - 125	7	25
1,4-Dichlorobenzene	0.0500	0.05372		mg/L		107	75 - 125	6	25
Dichlorodifluoromethane	0.0500	0.06263		mg/L		125	50 - 150	5	25
1,1-Dichloroethane	0.0500	0.05387		mg/L		108	71 - 130	3	25
1,2-Dichloroethane	0.0500	0.05110		mg/L		102	72 - 130	0	25
1,1-Dichloroethene	0.0500	0.04648		mg/L		93	50 - 150	3	25
1,2-Dichloropropane	0.0500	0.05189		mg/L		104	74 - 125	0	25
1,3-Dichloropropane	0.0500	0.05487		mg/L		110	75 - 125	1	25
2,2-Dichloropropane	0.0500	0.05056		mg/L		101	75 - 125	3	25
1,1-Dichloropropene	0.0500	0.04686		mg/L		94	75 - 125	3	25
Ethylbenzene	0.0500	0.05279		mg/L		106	75 - 125	0	25
Hexachlorobutadiene	0.0500	0.05582		mg/L		112	75 - 125	7	25
Isopropylbenzene	0.0500	0.05476		mg/L		110	75 - 125	1	25
Methylene Chloride	0.0500	0.04928		mg/L		99	71 - 125	1	25
m,p-Xylenes	0.0500	0.05338		mg/L		107	75 - 125	0	25
MTBE	0.0500	0.05627		mg/L		113	65 - 135	2	25
Naphthalene	0.0500	0.06042		mg/L		121	70 - 130	9	25
n-Butylbenzene	0.0500	0.05266		mg/L		105	75 - 125	6	25
N-Propylbenzene	0.0500	0.05374		mg/L		107	75 - 125	6	25
o-Xylene	0.0500	0.05439		mg/L		109	75 - 125	1	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05503		mg/L		110	75 - 125	5	25
sec-Butylbenzene	0.0500	0.05402		mg/L		108	75 - 125	5	25
Styrene	0.0500	0.05581		mg/L		112	75 - 125	2	25
tert-Butylbenzene	0.0500	0.05556		mg/L		111	75 - 125	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.05625		mg/L		112	72 - 125	2	25
1,1,2,2-Tetrachloroethane	0.0500	0.05890		mg/L		118	74 - 125	8	25
Tetrachloroethene	0.0500	0.05213		mg/L		104	71 - 125	2	25
Toluene	0.0500	0.05232		mg/L		105	75 - 130	0	25

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QC Sample Results

Client: Ensolum

Job ID: 880-38497-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-142282/4				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142282											
				Spike	LCSD	LCSD					RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	RPD	Limit
								Limits			
trans-1,2-Dichloroethene				0.0500	0.05020	mg/L		100	75 - 125	2	25
trans-1,3-Dichloropropene				0.0500	0.05444	mg/L		109	66 - 125	3	25
1,2,3-Trichlorobenzene				0.0500	0.05566	mg/L		111	75 - 137	6	25
1,2,4-Trichlorobenzene				0.0500	0.05424	mg/L		108	75 - 135	5	25
1,1,1-Trichloroethane				0.0500	0.04905	mg/L		98	70 - 130	3	25
1,1,2-Trichloroethane				0.0500	0.05587	mg/L		112	75 - 130	3	25
Trichloroethene				0.0500	0.05155	mg/L		103	75 - 135	1	25
Trichlorofluoromethane				0.0500	0.04696	mg/L		94	60 - 140	3	25
1,2,3-Trichloropropane				0.0500	0.05584	mg/L		112	75 - 125	10	25
1,2,4-Trimethylbenzene				0.0500	0.05640	mg/L		113	75 - 125	6	25
1,3,5-Trimethylbenzene				0.0500	0.05588	mg/L		112	60 - 140	7	25
Vinyl chloride				0.0500	0.04805	mg/L		96	60 - 140	2	25
				LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)				100		74 - 124					
Dibromofluoromethane (Surr)				97		75 - 131					
1,2-Dichloroethane-d4 (Surr)				97		63 - 144					
Toluene-d8 (Surr)				102		80 - 120					

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

Lab Sample ID: MB 860-142389/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 142296						Prep Batch: 142389			
	MB	MB							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		01/26/24 12:01	01/26/24 15:32	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		01/26/24 12:01	01/26/24 15:32	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		01/26/24 12:01	01/26/24 15:32	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135				01/26/24 12:01	01/26/24 15:32	1
o-Terphenyl	89		70 - 135				01/26/24 12:01	01/26/24 15:32	1

Lab Sample ID: LCS 860-142389/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 142296				Prep Batch: 142389			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	87.39		mg/L		87	70 - 135
Diesel Range Organics (Over C10-C28)	100	94.23		mg/L		94	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 135				
o-Terphenyl	85		70 - 135				

Eurofins Midland

QC Sample Results

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

Job ID: 880-38497-1

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

Lab Sample ID: LCSD 860-142389/3-A
Matrix: Water
Analysis Batch: 142296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	90.00		mg/L		90	70 - 135	3	35
Diesel Range Organics (Over C10-C28)	100	97.91		mg/L		98	70 - 135	4	35

Surrogate

LCSD %Recovery

LCSD Qualifier

Limits

1-Chlorooctane	95		70 - 135
o-Terphenyl	85		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-142422/3
Matrix: Water
Analysis Batch: 142422

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			01/26/24 23:43	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/26/24 23:43	1
Sulfate	<0.200	U	0.500	0.200 mg/L			01/26/24 23:43	1

Lab Sample ID: LCS 860-142422/4
Matrix: Water
Analysis Batch: 142422

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.13		mg/L		101	90 - 110
Fluoride	10.0	10.67		mg/L		107	90 - 110
Sulfate	10.0	10.32		mg/L		103	90 - 110

Lab Sample ID: LCSD 860-142422/5
Matrix: Water
Analysis Batch: 142422

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	10.13		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.68		mg/L		107	90 - 110	0	20
Sulfate	10.0	10.32		mg/L		103	90 - 110	0	20

Lab Sample ID: LLCS 860-142422/7
Matrix: Water
Analysis Batch: 142422

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	0.5652		mg/L		113	50 - 150
Fluoride	0.500	0.5917		mg/L		118	50 - 150
Sulfate	0.500	0.5188		mg/L		104	50 - 150

QC Sample Results

Client: Ensolum

Job ID: 880-38497-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-142423/3

Matrix: Water

Analysis Batch: 142423

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			01/26/24 23:43	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/26/24 23:43	1

Lab Sample ID: LCS 860-142423/4

Matrix: Water

Analysis Batch: 142423

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	10.19		mg/L		102	80 - 120
Nitrite as N	10.0	9.811		mg/L		98	80 - 120

Lab Sample ID: LCSD 860-142423/5

Matrix: Water

Analysis Batch: 142423

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	10.19		mg/L		102	80 - 120	0	20
Nitrite as N	10.0	9.807		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-142423/6

Matrix: Water

Analysis Batch: 142423

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	0.1014		mg/L		101	50 - 150
Nitrite as N	0.100	0.1073		mg/L		107	50 - 150

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-142658/3

Matrix: Water

Analysis Batch: 142658

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			01/29/24 10:43	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/29/24 10:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			01/29/24 10:43	1

Lab Sample ID: LCS 860-142658/4

Matrix: Water

Analysis Batch: 142658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	252.1		mg/L		101	85 - 115

Eurofins Midland

QC Sample Results

Client: Ensolum

Job ID: 880-38497-1

Project/Site: South Hobbs - 03B1417002

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-142658/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142658											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity			250	265.9		mg/L		106	85 - 115	5	20

Lab Sample ID: 880-38497-2 DU				Client Sample ID: MW-2							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142658											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	1360			1291		mg/L				5	20
Bicarbonate Alkalinity as CaCO3	1360			1291		mg/L				5	20
Carbonate Alkalinity as CaCO3	<4.00	U		<4.00	U	mg/L				NC	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-142479/3				Client Sample ID: Method Blank							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142479											
Analyte	MB Result	MB Qualifier		RL		Unit	D	Prepared	Analyzed	Dil Fac	
Sulfide, Dissolved	<0.0400	U		0.100	0.0400	mg/L			01/26/24 18:42	1	

Lab Sample ID: LCS 860-142479/4				Client Sample ID: Lab Control Sample							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142479											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Dissolved			1.00	1.095		mg/L		110	90 - 110		

Lab Sample ID: LCSD 860-142479/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 142479											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Dissolved			1.00	1.092		mg/L		109	90 - 110	0	20

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-38497-1

GC/MS VOA

Analysis Batch: 142282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Total/NA	Water	8260C	
880-38497-2	MW-2	Total/NA	Water	8260C	
MB 860-142282/10	Method Blank	Total/NA	Water	8260C	
LCS 860-142282/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-142282/4	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
880-38497-1	MW-1	Total/NA	Water	8015 NM	
880-38497-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 142296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Total/NA	Water	8015B NM	142389
MB 860-142389/1-A	Method Blank	Total/NA	Water	8015B NM	142389
LCS 860-142389/2-A	Lab Control Sample	Total/NA	Water	8015B NM	142389
LCSD 860-142389/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	142389

Analysis Batch: 142300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-2	MW-2	Total/NA	Water	8015B NM	142389

Prep Batch: 142389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-38497-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-142389/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-142389/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-142389/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 142422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Total/NA	Water	300.0	
880-38497-2	MW-2	Total/NA	Water	300.0	
MB 860-142422/3	Method Blank	Total/NA	Water	300.0	
LCS 860-142422/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-142422/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-142422/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 142423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Total/NA	Water	300.0	
880-38497-2	MW-2	Total/NA	Water	300.0	
MB 860-142423/3	Method Blank	Total/NA	Water	300.0	
LCS 860-142423/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-142423/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-142423/6	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-38497-1

General Chemistry

Analysis Batch: 141232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-38497-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 142479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Dissolved	Water	SM 4500 S2 D	142624
MB 860-142479/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-142479/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-142479/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Filtration Batch: 142624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 142658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Total/NA	Water	SM 2320B	
880-38497-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-142658/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-142658/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-142658/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-38497-2 DU	MW-2	Total/NA	Water	SM 2320B	

Analysis Batch: 142869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38497-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-38497-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-38497-1

Client Sample ID: MW-1

Date Collected: 01/25/24 10:30

Date Received: 01/25/24 15:40

Lab Sample ID: 880-38497-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	142282	NA	EET HOU	01/26/24 15:59
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	01/26/24 16:56
Total/NA	Prep	8015NM Aq Prep			142389	TH	EET HOU	01/26/24 12:01
Total/NA	Analysis	8015B NM		1	142296	T1S	EET HOU	01/26/24 16:56
Total/NA	Analysis	300.0		1	142422	A1S	EET HOU	01/27/24 11:08
Total/NA	Analysis	300.0		1	142423	A1S	EET HOU	01/27/24 11:08
Total/NA	Analysis	SM 2320B		1	142658	KEG	EET HOU	01/29/24 12:53
Total/NA	Analysis	SM 4500 CO2 D		1	141232	MC	EET HOU	01/31/24 14:07
Total/NA	Analysis	SM 4500 H+ B		1	142869	KEG	EET HOU	01/30/24 14:41
Dissolved	Filtration	Filtration			142624	SCI	EET HOU	01/26/24 17:40
Dissolved	Analysis	SM 4500 S2 D		1	142479	SCI	EET HOU	01/26/24 18:42

Client Sample ID: MW-2

Date Collected: 01/25/24 11:25

Date Received: 01/25/24 15:40

Lab Sample ID: 880-38497-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	142282	NA	EET HOU	01/26/24 16:20
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	01/26/24 16:56
Total/NA	Prep	8015NM Aq Prep			142389	TH	EET HOU	01/26/24 14:37
Total/NA	Analysis	8015B NM		1	142300	T1S	EET HOU	01/26/24 16:56
Total/NA	Analysis	300.0		1	142422	A1S	EET HOU	01/27/24 11:33
Total/NA	Analysis	300.0		1	142423	A1S	EET HOU	01/27/24 11:33
Total/NA	Analysis	SM 2320B		1	142658	KEG	EET HOU	01/29/24 13:09
Total/NA	Analysis	SM 4500 CO2 D		1	141232	MC	EET HOU	01/31/24 14:07
Total/NA	Analysis	SM 4500 H+ B		1	142869	KEG	EET HOU	01/30/24 14:43

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: 880-38497-1

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: 880-38497-1

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: 880-38497-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38497-1	MW-1	Water	01/25/24 10:30	01/25/24 15:40
880-38497-2	MW-2	Water	01/25/24 11:25	01/25/24 15:40

- 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

1/31/2024

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-38497-1

Login Number: 38497

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-38497-1

Login Number: 38497

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 01/26/24 02:08 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 2/6/2024 5:29:09 PM

JOB DESCRIPTION

South Hobbs - 03B1417002
South Hobbs

JOB NUMBER

880-38669-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

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

Laboratory Job ID: 880-38669-1

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	28

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: 880-38669-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	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: South Hobbs - 03B1417002

Job ID: 880-38669-1

Job ID: 880-38669-1

Eurofins Midland

Job Narrative 880-38669-1

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 1/30/2024 3:15 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 0.8°C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-142967 recovered above the upper control limit for Dichloro difluoromethane (54%). 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 860-142967/2).

Method 8260C: The matrix spike (MS) recoveries for analytical batch 860-142967 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-143061 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The following sample was received outside of holding time: MW-1 (880-38669-1).

Method 300_ORGFMS: The following sample(s) was received with less than 1 hour remaining on the holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-2 (880-38669-2).

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

General Chemistry

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

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Client Sample Results

Client: Ensolum

Job ID: 880-38669-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-38669-1

Date Collected: 01/29/24 10:25

Matrix: Water

Date Received: 01/30/24 15:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L		01/31/24 13:33	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L		01/31/24 13:33	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L		01/31/24 13:33	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L		01/31/24 13:33	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L		01/31/24 13:33	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L		01/31/24 13:33	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L		01/31/24 13:33	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L		01/31/24 13:33	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L		01/31/24 13:33	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L		01/31/24 13:33	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L		01/31/24 13:33	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L		01/31/24 13:33	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L		01/31/24 13:33	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L		01/31/24 13:33	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L		01/31/24 13:33	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L		01/31/24 13:33	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L		01/31/24 13:33	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L		01/31/24 13:33	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L		01/31/24 13:33	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L		01/31/24 13:33	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L		01/31/24 13:33	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L		01/31/24 13:33	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L		01/31/24 13:33	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L		01/31/24 13:33	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L		01/31/24 13:33	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L		01/31/24 13:33	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L		01/31/24 13:33	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L		01/31/24 13:33	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L		01/31/24 13:33	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L		01/31/24 13:33	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L		01/31/24 13:33	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L		01/31/24 13:33	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L		01/31/24 13:33	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L		01/31/24 13:33	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L		01/31/24 13:33	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L		01/31/24 13:33	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L		01/31/24 13:33	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L		01/31/24 13:33	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L		01/31/24 13:33	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L		01/31/24 13:33	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L		01/31/24 13:33	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L		01/31/24 13:33	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L		01/31/24 13:33	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L		01/31/24 13:33	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L		01/31/24 13:33	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L		01/31/24 13:33	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L		01/31/24 13:33	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L		01/31/24 13:33	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L		01/31/24 13:33	1

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Client Sample Results

Client: Ensolum

Job ID: 880-38669-1

Project/Site: South Hobbs - 03B1417002

Client Sample ID: MW-1

Lab Sample ID: 880-38669-1

Date Collected: 01/29/24 10:25

Matrix: Water

Date Received: 01/30/24 15:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127 mg/L			01/31/24 13:33	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177 mg/L			01/31/24 13:33	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175 mg/L			01/31/24 13:33	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585 mg/L			01/31/24 13:33	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411 mg/L			01/31/24 13:33	1
Trichloroethene	<0.00150	U	0.00500	0.00150 mg/L			01/31/24 13:33	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560 mg/L			01/31/24 13:33	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470 mg/L			01/31/24 13:33	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417 mg/L			01/31/24 13:33	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411 mg/L			01/31/24 13:33	1
Vinyl chloride	<0.000428	U	0.00200	0.000428 mg/L			01/31/24 13:33	1
Xylenes, Total	<0.00124	U	0.0100	0.00124 mg/L			01/31/24 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		74 - 124		01/31/24 13:33	1
Dibromofluoromethane (Surr)	101		75 - 131		01/31/24 13:33	1
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		01/31/24 13:33	1
Toluene-d8 (Surr)	102		80 - 120		01/31/24 13:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.953	U	4.82	0.953 mg/L			02/01/24 17:06	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	<0.953	U	4.82	0.953 mg/L		02/01/24 07:43	02/01/24 17:06	1
Diesel Range Organics (Over C10-C28)	<0.953	U	4.82	0.953 mg/L		02/01/24 07:43	02/01/24 17:06	1
Oil Range Organics (Over C28-C36)	<0.920	U	4.82	0.920 mg/L		02/01/24 07:43	02/01/24 17:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 135			02/01/24 07:43	02/01/24 17:06	1
o-Terphenyl	83		70 - 135			02/01/24 07:43	02/01/24 17:06	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		0.500	0.250 mg/L			01/31/24 19:44	1
Nitrate as N	0.121	H	0.100	0.0391 mg/L			01/31/24 19:44	1
Fluoride	0.205	J	0.500	0.100 mg/L			01/31/24 19:44	1
Nitrite as N	<0.0293	U H	0.100	0.0293 mg/L			01/31/24 19:44	1
Sulfate	125		0.500	0.200 mg/L			01/31/24 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1010		4.00	4.00 mg/L			02/01/24 15:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1010		4.00	4.00 mg/L			02/01/24 15:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00 mg/L			02/01/24 15:27	1
Carbon dioxide (SM 4500 CO2 D)	1290			mg/L			02/03/24 15:33	1

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Client Sample Results

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

Job ID: 880-38669-1

Client Sample ID: MW-1

Lab Sample ID: 880-38669-1

Date Collected: 01/29/24 10:25

Matrix: Water

Date Received: 01/30/24 15:15

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Carbon Dioxide, Free (SM 4500 CO2 D)	404			mg/L			02/03/24 15:33	1	
pH (SM 4500 H+ B)	6.7	HF		SU			02/01/24 17:17	1	
Temperature (SM 4500 H+ B)	20.4	HF		Degrees C			02/01/24 17:17	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			02/02/24 17:50	1	

Client Sample ID: MW-2

Lab Sample ID: 880-38669-2

Date Collected: 01/29/24 11:30

Matrix: Water

Date Received: 01/30/24 15:15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	0.0230		0.00100	0.000460 mg/L			01/31/24 13:54	1	
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/31/24 13:54	1	
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/31/24 13:54	1	
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/31/24 13:54	1	
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/31/24 13:54	1	
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/31/24 13:54	1	
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/31/24 13:54	1	
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/31/24 13:54	1	
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/31/24 13:54	1	
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/31/24 13:54	1	
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/31/24 13:54	1	
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/31/24 13:54	1	
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/31/24 13:54	1	
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/31/24 13:54	1	
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/31/24 13:54	1	
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/31/24 13:54	1	
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/31/24 13:54	1	
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/31/24 13:54	1	
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/31/24 13:54	1	
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/31/24 13:54	1	
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/31/24 13:54	1	
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/31/24 13:54	1	
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/31/24 13:54	1	
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/31/24 13:54	1	
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/31/24 13:54	1	
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/31/24 13:54	1	
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/31/24 13:54	1	
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/31/24 13:54	1	
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/31/24 13:54	1	
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/31/24 13:54	1	
Ethylbenzene	0.0281		0.00100	0.000385 mg/L			01/31/24 13:54	1	
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/31/24 13:54	1	
Isopropylbenzene	0.0156		0.00100	0.000592 mg/L			01/31/24 13:54	1	
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/31/24 13:54	1	
m,p-Xylenes	0.0744		0.0100	0.00124 mg/L			01/31/24 13:54	1	

Eurofins Midland

Client Sample Results

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

Job ID: 880-38669-1

Client Sample ID: MW-2

Lab Sample ID: 880-38669-2

Date Collected: 01/29/24 11:30

Matrix: Water

Date Received: 01/30/24 15:15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.00139	U	0.00500	0.00139	mg/L			01/31/24 13:54	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			01/31/24 13:54	1
n-Butylbenzene	0.000928	J	0.00100	0.000510	mg/L			01/31/24 13:54	1
N-Propylbenzene	0.00384		0.00100	0.000429	mg/L			01/31/24 13:54	1
o-Xylene	0.0237		0.00100	0.000502	mg/L			01/31/24 13:54	1
p-Cymene (p-Isopropyltoluene)	0.00117		0.00100	0.000676	mg/L			01/31/24 13:54	1
sec-Butylbenzene	0.00149		0.00100	0.000468	mg/L			01/31/24 13:54	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			01/31/24 13:54	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			01/31/24 13:54	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			01/31/24 13:54	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			01/31/24 13:54	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			01/31/24 13:54	1
Toluene	0.00526		0.00100	0.000475	mg/L			01/31/24 13:54	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			01/31/24 13:54	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			01/31/24 13:54	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			01/31/24 13:54	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			01/31/24 13:54	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			01/31/24 13:54	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			01/31/24 13:54	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			01/31/24 13:54	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			01/31/24 13:54	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			01/31/24 13:54	1
1,2,4-Trimethylbenzene	0.0454		0.00100	0.000417	mg/L			01/31/24 13:54	1
1,3,5-Trimethylbenzene	0.0108		0.00100	0.000411	mg/L			01/31/24 13:54	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			01/31/24 13:54	1
Xylenes, Total	0.0981		0.0100	0.00124	mg/L			01/31/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 124					01/31/24 13:54	1
Dibromofluoromethane (Surr)	97		75 - 131					01/31/24 13:54	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 144					01/31/24 13:54	1
Toluene-d8 (Surr)	97		80 - 120					01/31/24 13:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.998	U	5.05	0.998	mg/L			02/01/24 15:06	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	<0.998	U	5.05	0.998	mg/L		02/01/24 07:43	02/01/24 15:06	1
Diesel Range Organics (Over C10-C28)	<0.998	U	5.05	0.998	mg/L		02/01/24 07:43	02/01/24 15:06	1
Oil Range Organics (Over C28-C36)	<0.963	U	5.05	0.963	mg/L		02/01/24 07:43	02/01/24 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 135				02/01/24 07:43	02/01/24 15:06	1
o-Terphenyl	73		70 - 135				02/01/24 07:43	02/01/24 15:06	1

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Client Sample Results

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

Job ID: 880-38669-1

Client Sample ID: MW-2
Date Collected: 01/29/24 11:30
Date Received: 01/30/24 15:15

Lab Sample ID: 880-38669-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.5		0.500	0.250	mg/L			01/31/24 21:53	1
Nitrate as N	0.272	H	0.100	0.0391	mg/L			01/31/24 21:53	1
Fluoride	<0.100	U	0.500	0.100	mg/L			01/31/24 21:53	1
Nitrite as N	0.640	H	0.100	0.0293	mg/L			01/31/24 21:53	1
Sulfate	90.8		0.500	0.200	mg/L			01/31/24 21:53	1

General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	1290		4.00	4.00	mg/L			02/01/24 15:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	1290		4.00	4.00	mg/L			02/01/24 15:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			02/01/24 15:58	1
Carbon dioxide (SM 4500 CO2 D)	2750				mg/L			02/03/24 15:33	1
Carbon Dioxide, Free (SM 4500 CO2 D)	1620				mg/L			02/03/24 15:33	1
pH (SM 4500 H+ B)	6.2	HF			SU			02/01/24 17:17	1
Temperature (SM 4500 H+ B)	20.4	HF			Degrees C			02/01/24 17:17	1

Surrogate Summary

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

Job ID: 880-38669-1

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)
880-38669-1	MW-1	100	101	103	102
880-38669-2	MW-2	95	97	104	97
LCS 860-142967/3	Lab Control Sample	98	97	98	100
LCSD 860-142967/4	Lab Control Sample Dup	96	98	97	100
MB 860-142967/10	Method Blank	93	98	102	102
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)
880-38669-1	MW-1	78	83
880-38669-2	MW-2	76	73
LCS 860-143187/2-A	Lab Control Sample	100	85
LCSD 860-143187/3-A	Lab Control Sample Dup	98	80
MB 860-143187/1-A	Method Blank	94	96
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum

Job ID: 880-38669-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-142967/10

Matrix: Water

Analysis Batch: 142967

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			01/31/24 10:49	1
Bromobenzene	<0.000486	U	0.00100	0.000486 mg/L			01/31/24 10:49	1
Bromochloromethane	<0.000577	U	0.00100	0.000577 mg/L			01/31/24 10:49	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552 mg/L			01/31/24 10:49	1
Bromoform	<0.000633	U	0.00500	0.000633 mg/L			01/31/24 10:49	1
Bromomethane	<0.00142	U	0.00500	0.00142 mg/L			01/31/24 10:49	1
2-Butanone	<0.00828	U	0.0500	0.00828 mg/L			01/31/24 10:49	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896 mg/L			01/31/24 10:49	1
Chlorobenzene	<0.000455	U	0.00100	0.000455 mg/L			01/31/24 10:49	1
Chloroethane	<0.00198	U	0.0100	0.00198 mg/L			01/31/24 10:49	1
Chloroform	<0.000464	U	0.00100	0.000464 mg/L			01/31/24 10:49	1
Chloromethane	<0.00204	U	0.0100	0.00204 mg/L			01/31/24 10:49	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459 mg/L			01/31/24 10:49	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386 mg/L			01/31/24 10:49	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457 mg/L			01/31/24 10:49	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107 mg/L			01/31/24 10:49	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547 mg/L			01/31/24 10:49	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671 mg/L			01/31/24 10:49	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999 mg/L			01/31/24 10:49	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429 mg/L			01/31/24 10:49	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413 mg/L			01/31/24 10:49	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449 mg/L			01/31/24 10:49	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785 mg/L			01/31/24 10:49	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635 mg/L			01/31/24 10:49	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372 mg/L			01/31/24 10:49	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738 mg/L			01/31/24 10:49	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556 mg/L			01/31/24 10:49	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514 mg/L			01/31/24 10:49	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679 mg/L			01/31/24 10:49	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624 mg/L			01/31/24 10:49	1
Ethylbenzene	<0.000385	U	0.00100	0.000385 mg/L			01/31/24 10:49	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627 mg/L			01/31/24 10:49	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592 mg/L			01/31/24 10:49	1
Methylene Chloride	<0.00173	U	0.00500	0.00173 mg/L			01/31/24 10:49	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124 mg/L			01/31/24 10:49	1
MTBE	<0.00139	U	0.00500	0.00139 mg/L			01/31/24 10:49	1
Naphthalene	<0.00135	U	0.0100	0.00135 mg/L			01/31/24 10:49	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510 mg/L			01/31/24 10:49	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429 mg/L			01/31/24 10:49	1
o-Xylene	<0.000502	U	0.00100	0.000502 mg/L			01/31/24 10:49	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676 mg/L			01/31/24 10:49	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468 mg/L			01/31/24 10:49	1
Styrene	<0.000619	U	0.00100	0.000619 mg/L			01/31/24 10:49	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442 mg/L			01/31/24 10:49	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644 mg/L			01/31/24 10:49	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470 mg/L			01/31/24 10:49	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655 mg/L			01/31/24 10:49	1
Toluene	<0.000475	U	0.00100	0.000475 mg/L			01/31/24 10:49	1

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QC Sample Results

Client: Ensolum

Job ID: 880-38669-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: MB 860-142967/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 142967

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		01/31/24 10:49	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L		01/31/24 10:49	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L		01/31/24 10:49	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L		01/31/24 10:49	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L		01/31/24 10:49	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L		01/31/24 10:49	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L		01/31/24 10:49	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L		01/31/24 10:49	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L		01/31/24 10:49	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L		01/31/24 10:49	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L		01/31/24 10:49	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L		01/31/24 10:49	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L		01/31/24 10:49	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	93		74 - 124		01/31/24 10:49	1		
Dibromofluoromethane (Surr)	98		75 - 131		01/31/24 10:49	1		
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		01/31/24 10:49	1		
Toluene-d8 (Surr)	102		80 - 120		01/31/24 10:49	1		

Lab Sample ID: LCS 860-142967/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 142967

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.05086		mg/L		102	75 - 125
Bromobenzene	0.0500	0.05170		mg/L		103	75 - 125
Bromochloromethane	0.0500	0.05150		mg/L		103	60 - 140
Bromodichloromethane	0.0500	0.05194		mg/L		104	75 - 125
Bromoform	0.0500	0.05335		mg/L		107	70 - 130
Bromomethane	0.0500	0.05324		mg/L		106	60 - 140
2-Butanone	0.250	0.2224		mg/L		89	60 - 140
Carbon tetrachloride	0.0500	0.04973		mg/L		99	70 - 125
Chlorobenzene	0.0500	0.05165		mg/L		103	82 - 135
Chloroethane	0.0500	0.05553		mg/L		111	60 - 140
Chloroform	0.0500	0.05046		mg/L		101	70 - 121
Chloromethane	0.0500	0.05590		mg/L		112	60 - 140
2-Chlorotoluene	0.0500	0.05117		mg/L		102	73 - 125
4-Chlorotoluene	0.0500	0.05151		mg/L		103	74 - 125
cis-1,2-Dichloroethene	0.0500	0.05083		mg/L		102	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05208		mg/L		104	74 - 125
Dibromochloromethane	0.0500	0.05406		mg/L		108	73 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04988		mg/L		100	59 - 125
1,2-Dibromoethane	0.0500	0.05171		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05234		mg/L		105	75 - 125
1,3-Dichlorobenzene	0.0500	0.05130		mg/L		103	75 - 125
1,4-Dichlorobenzene	0.0500	0.05007		mg/L		100	75 - 125
Dichlorodifluoromethane	0.0500	0.07290		mg/L		146	50 - 150

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QC Sample Results

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

Job ID: 880-38669-1

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

Lab Sample ID: LCS 860-142967/3

Matrix: Water

Analysis Batch: 142967

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	0.05407		mg/L		108	71 - 130
1,2-Dichloroethane	0.0500	0.05012		mg/L		100	72 - 130
1,1-Dichloroethene	0.0500	0.04880		mg/L		98	50 - 150
1,2-Dichloropropane	0.0500	0.05132		mg/L		103	74 - 125
1,3-Dichloropropane	0.0500	0.05096		mg/L		102	75 - 125
2,2-Dichloropropane	0.0500	0.05196		mg/L		104	75 - 125
1,1-Dichloropropene	0.0500	0.04819		mg/L		96	75 - 125
Ethylbenzene	0.0500	0.05218		mg/L		104	75 - 125
Hexachlorobutadiene	0.0500	0.05261		mg/L		105	75 - 125
Isopropylbenzene	0.0500	0.05338		mg/L		107	75 - 125
Methylene Chloride	0.0500	0.04869		mg/L		97	71 - 125
m,p-Xylenes	0.0500	0.05260		mg/L		105	75 - 125
MTBE	0.0500	0.05339		mg/L		107	65 - 135
Naphthalene	0.0500	0.05250		mg/L		105	70 - 130
n-Butylbenzene	0.0500	0.05032		mg/L		101	75 - 125
N-Propylbenzene	0.0500	0.05125		mg/L		102	75 - 125
o-Xylene	0.0500	0.05309		mg/L		106	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05270		mg/L		105	75 - 125
sec-Butylbenzene	0.0500	0.05170		mg/L		103	75 - 125
Styrene	0.0500	0.05373		mg/L		107	75 - 125
tert-Butylbenzene	0.0500	0.05250		mg/L		105	75 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.05310		mg/L		106	72 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05092		mg/L		102	74 - 125
Tetrachloroethene	0.0500	0.05092		mg/L		102	71 - 125
Toluene	0.0500	0.05116		mg/L		102	75 - 130
trans-1,2-Dichloroethene	0.0500	0.05124		mg/L		102	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05246		mg/L		105	66 - 125
1,2,3-Trichlorobenzene	0.0500	0.05105		mg/L		102	75 - 137
1,2,4-Trichlorobenzene	0.0500	0.05150		mg/L		103	75 - 135
1,1,1-Trichloroethane	0.0500	0.04975		mg/L		100	70 - 130
1,1,2-Trichloroethane	0.0500	0.05137		mg/L		103	75 - 130
Trichloroethene	0.0500	0.05179		mg/L		104	75 - 135
Trichlorofluoromethane	0.0500	0.05746		mg/L		115	60 - 140
1,2,3-Trichloropropane	0.0500	0.04976		mg/L		100	75 - 125
1,2,4-Trimethylbenzene	0.0500	0.05295		mg/L		106	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.05272		mg/L		105	60 - 140
Vinyl chloride	0.0500	0.05535		mg/L		111	60 - 140
	LCS LCS						
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		74 - 124				
Dibromofluoromethane (Surr)	97		75 - 131				
1,2-Dichloroethane-d4 (Surr)	98		63 - 144				
Toluene-d8 (Surr)	100		80 - 120				

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QC Sample Results

Client: Ensolum

Job ID: 880-38669-1

Project/Site: South Hobbs - 03B1417002

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

Lab Sample ID: LCSD 860-142967/4

Matrix: Water

Analysis Batch: 142967

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	0.04811		mg/L		96	75 - 125	6	25
Bromobenzene	0.0500	0.04798		mg/L		96	75 - 125	7	25
Bromochloromethane	0.0500	0.05000		mg/L		100	60 - 140	3	25
Bromodichloromethane	0.0500	0.04925		mg/L		98	75 - 125	5	25
Bromoform	0.0500	0.05093		mg/L		102	70 - 130	5	25
Bromomethane	0.0500	0.05075		mg/L		101	60 - 140	5	25
2-Butanone	0.250	0.2201		mg/L		88	60 - 140	1	25
Carbon tetrachloride	0.0500	0.04730		mg/L		95	70 - 125	5	25
Chlorobenzene	0.0500	0.04878		mg/L		98	82 - 135	6	25
Chloroethane	0.0500	0.05274		mg/L		105	60 - 140	5	25
Chloroform	0.0500	0.04809		mg/L		96	70 - 121	5	25
Chloromethane	0.0500	0.05344		mg/L		107	60 - 140	5	25
2-Chlorotoluene	0.0500	0.04674		mg/L		93	73 - 125	9	25
4-Chlorotoluene	0.0500	0.04715		mg/L		94	74 - 125	9	25
cis-1,2-Dichloroethene	0.0500	0.04859		mg/L		97	75 - 125	5	25
cis-1,3-Dichloropropene	0.0500	0.04898		mg/L		98	74 - 125	6	25
Dibromochloromethane	0.0500	0.05023		mg/L		100	73 - 125	7	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04708		mg/L		94	59 - 125	6	25
1,2-Dibromoethane	0.0500	0.04924		mg/L		98	73 - 125	5	25
1,2-Dichlorobenzene	0.0500	0.04789		mg/L		96	75 - 125	9	25
1,3-Dichlorobenzene	0.0500	0.04722		mg/L		94	75 - 125	8	25
1,4-Dichlorobenzene	0.0500	0.04634		mg/L		93	75 - 125	8	25
Dichlorodifluoromethane	0.0500	0.06999		mg/L		140	50 - 150	4	25
1,1-Dichloroethane	0.0500	0.05159		mg/L		103	71 - 130	5	25
1,2-Dichloroethane	0.0500	0.04746		mg/L		95	72 - 130	5	25
1,1-Dichloroethene	0.0500	0.04623		mg/L		92	50 - 150	5	25
1,2-Dichloropropane	0.0500	0.04899		mg/L		98	74 - 125	5	25
1,3-Dichloropropane	0.0500	0.04837		mg/L		97	75 - 125	5	25
2,2-Dichloropropane	0.0500	0.04900		mg/L		98	75 - 125	6	25
1,1-Dichloropropene	0.0500	0.04735		mg/L		95	75 - 125	2	25
Ethylbenzene	0.0500	0.04923		mg/L		98	75 - 125	6	25
Hexachlorobutadiene	0.0500	0.04810		mg/L		96	75 - 125	9	25
Isopropylbenzene	0.0500	0.05053		mg/L		101	75 - 125	5	25
Methylene Chloride	0.0500	0.04637		mg/L		93	71 - 125	5	25
m,p-Xylenes	0.0500	0.04963		mg/L		99	75 - 125	6	25
MTBE	0.0500	0.05168		mg/L		103	65 - 135	3	25
Naphthalene	0.0500	0.04827		mg/L		97	70 - 130	8	25
n-Butylbenzene	0.0500	0.04603		mg/L		92	75 - 125	9	25
N-Propylbenzene	0.0500	0.04710		mg/L		94	75 - 125	8	25
o-Xylene	0.0500	0.04984		mg/L		100	75 - 125	6	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04832		mg/L		97	75 - 125	9	25
sec-Butylbenzene	0.0500	0.04775		mg/L		95	75 - 125	8	25
Styrene	0.0500	0.05076		mg/L		102	75 - 125	6	25
tert-Butylbenzene	0.0500	0.04844		mg/L		97	75 - 125	8	25
1,1,1,2-Tetrachloroethane	0.0500	0.05027		mg/L		101	72 - 125	5	25
1,1,2,2-Tetrachloroethane	0.0500	0.04696		mg/L		94	74 - 125	8	25
Tetrachloroethene	0.0500	0.04874		mg/L		97	71 - 125	4	25
Toluene	0.0500	0.04870		mg/L		97	75 - 130	5	25

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QC Sample Results

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

Job ID: 880-38669-1

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

Lab Sample ID: LCSD 860-142967/4
Matrix: Water
Analysis Batch: 142967

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	0.04917		mg/L		98	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.04909		mg/L		98	66 - 125	7	25
1,2,3-Trichlorobenzene	0.0500	0.04677		mg/L		94	75 - 137	9	25
1,2,4-Trichlorobenzene	0.0500	0.04675		mg/L		93	75 - 135	10	25
1,1,1-Trichloroethane	0.0500	0.04742		mg/L		95	70 - 130	5	25
1,1,2-Trichloroethane	0.0500	0.04910		mg/L		98	75 - 130	5	25
Trichloroethene	0.0500	0.04900		mg/L		98	75 - 135	6	25
Trichlorofluoromethane	0.0500	0.05201		mg/L		104	60 - 140	10	25
1,2,3-Trichloropropane	0.0500	0.04514		mg/L		90	75 - 125	10	25
1,2,4-Trimethylbenzene	0.0500	0.04916		mg/L		98	75 - 125	7	25
1,3,5-Trimethylbenzene	0.0500	0.04852		mg/L		97	60 - 140	8	25
Vinyl chloride	0.0500	0.05189		mg/L		104	60 - 140	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
Toluene-d8 (Surr)	100		80 - 120

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

Lab Sample ID: MB 860-143187/1-A
Matrix: Water
Analysis Batch: 143178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143187

Lab Sample ID: LCS 860-143187/2-A
Matrix: Water
Analysis Batch: 143178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143187

QC Sample Results

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

Job ID: 880-38669-1

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

Lab Sample ID: LCSD 860-143187/3-A
Matrix: Water
Analysis Batch: 143178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143187

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	96.79		mg/L		97	70 - 135	0	35
Diesel Range Organics (Over C10-C28)	100	94.20		mg/L		94	70 - 135	3	35

Surrogate

LCSD %Recovery

LCSD Qualifier

Limits

1-Chlorooctane	98		70 - 135
o-Terphenyl	80		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-143060/3
Matrix: Water
Analysis Batch: 143060

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			01/31/24 14:21	1
Fluoride	<0.100	U	0.500	0.100 mg/L			01/31/24 14:21	1
Sulfate	<0.200	U	0.500	0.200 mg/L			01/31/24 14:21	1

Lab Sample ID: LCS 860-143060/4
Matrix: Water
Analysis Batch: 143060

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	9.683		mg/L		97	90 - 110
Fluoride	10.0	10.17		mg/L		102	90 - 110
Sulfate	10.0	9.667		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-143060/5
Matrix: Water
Analysis Batch: 143060

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	9.631		mg/L		96	90 - 110	1	20
Fluoride	10.0	10.15		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.638		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-143060/7
Matrix: Water
Analysis Batch: 143060

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	0.5038		mg/L		101	50 - 150
Fluoride	0.500	0.5693		mg/L		114	50 - 150
Sulfate	0.500	0.3084	J	mg/L		62	50 - 150

QC Sample Results

Client: Ensolum

Job ID: 880-38669-1

Project/Site: South Hobbs - 03B1417002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-143061/3

Matrix: Water

Analysis Batch: 143061

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			01/31/24 14:21	1
Nitrite as N	<0.0293	U	0.100	0.0293 mg/L			01/31/24 14:21	1

Lab Sample ID: LCS 860-143061/4

Matrix: Water

Analysis Batch: 143061

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	9.714		mg/L		97	80 - 120
Nitrite as N	10.0	9.407		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-143061/5

Matrix: Water

Analysis Batch: 143061

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	9.659		mg/L		97	80 - 120	1	20
Nitrite as N	10.0	9.232		mg/L		92	80 - 120	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-143443/3

Matrix: Water

Analysis Batch: 143443

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			02/01/24 14:56	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			02/01/24 14:56	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00 mg/L			02/01/24 14:56	1

Lab Sample ID: LCS 860-143443/4

Matrix: Water

Analysis Batch: 143443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	252.9		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-143443/5

Matrix: Water

Analysis Batch: 143443

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	254.8		mg/L		102	85 - 115	1	20

Lab Sample ID: 880-38669-1 DU

Matrix: Water

Analysis Batch: 143443

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	1010		1018		mg/L		0.5	20

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QC Sample Results

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

Job ID: 880-38669-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 880-38669-1 DU
Matrix: Water
Analysis Batch: 143443

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	1010		1018		mg/L		0.5	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-143582/3
Matrix: Water
Analysis Batch: 143582

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			02/02/24 17:50	1

Lab Sample ID: LCS 860-143582/4
Matrix: Water
Analysis Batch: 143582

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	1.067		mg/L		107	90 - 110

Lab Sample ID: LCSD 860-143582/5
Matrix: Water
Analysis Batch: 143582

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sulfide, Dissolved	1.00	1.074		mg/L		107	90 - 110	1	20

QC Association Summary

Client: Ensolum

Job ID: 880-38669-1

Project/Site: South Hobbs - 03B1417002

GC/MS VOA

Analysis Batch: 142967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Total/NA	Water	8260C	
880-38669-2	MW-2	Total/NA	Water	8260C	
MB 860-142967/10	Method Blank	Total/NA	Water	8260C	
LCS 860-142967/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-142967/4	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
880-38669-1	MW-1	Total/NA	Water	8015 NM	
880-38669-2	MW-2	Total/NA	Water	8015 NM	

Analysis Batch: 143174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-2	MW-2	Total/NA	Water	8015B NM	143187

Analysis Batch: 143178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Total/NA	Water	8015B NM	143187
MB 860-143187/1-A	Method Blank	Total/NA	Water	8015B NM	143187
LCS 860-143187/2-A	Lab Control Sample	Total/NA	Water	8015B NM	143187
LCSD 860-143187/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	143187

Prep Batch: 143187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Total/NA	Water	8015NM Aq Prep	
880-38669-2	MW-2	Total/NA	Water	8015NM Aq Prep	
MB 860-143187/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-143187/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-143187/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 143060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Total/NA	Water	300.0	
880-38669-2	MW-2	Total/NA	Water	300.0	
MB 860-143060/3	Method Blank	Total/NA	Water	300.0	
LCS 860-143060/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-143060/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-143060/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 143061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Total/NA	Water	300.0	
880-38669-2	MW-2	Total/NA	Water	300.0	
MB 860-143061/3	Method Blank	Total/NA	Water	300.0	
LCS 860-143061/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-143061/5	Lab Control Sample Dup	Total/NA	Water	300.0	

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QC Association Summary

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-38669-1

General Chemistry

Analysis Batch: 141232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Total/NA	Water	SM 4500 CO2 D	
880-38669-2	MW-2	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 143356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Total/NA	Water	SM 4500 H+ B	
880-38669-2	MW-2	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 143443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Total/NA	Water	SM 2320B	
880-38669-2	MW-2	Total/NA	Water	SM 2320B	
MB 860-143443/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-143443/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-143443/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
880-38669-1 DU	MW-1	Total/NA	Water	SM 2320B	

Filtration Batch: 143481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Dissolved	Water	Filtration	

Analysis Batch: 143582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38669-1	MW-1	Dissolved	Water	SM 4500 S2 D	143481
MB 860-143582/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-143582/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-143582/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Lab Chronicle

Client: Ensolum

Project/Site: South Hobbs - 03B1417002

Job ID: 880-38669-1

Client Sample ID: MW-1

Date Collected: 01/29/24 10:25

Date Received: 01/30/24 15:15

Lab Sample ID: 880-38669-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	142967	NA	EET HOU	01/31/24 13:33
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	02/01/24 17:06
Total/NA	Prep	8015NM Aq Prep			143187	TH	EET HOU	02/01/24 07:43
Total/NA	Analysis	8015B NM		1	143178	T1S	EET HOU	02/01/24 17:06
Total/NA	Analysis	300.0		1	143060	WP	EET HOU	01/31/24 19:44
Total/NA	Analysis	300.0		1	143061	WP	EET HOU	01/31/24 19:44
Total/NA	Analysis	SM 2320B		1	143443	KEG	EET HOU	02/01/24 15:27
Total/NA	Analysis	SM 4500 CO2 D		1	141232	MC	EET HOU	02/03/24 15:33
Total/NA	Analysis	SM 4500 H+ B		1	143356	ALL	EET HOU	02/01/24 17:17
Dissolved	Filtration	Filtration			143481	SCI	EET HOU	02/02/24 11:02
Dissolved	Analysis	SM 4500 S2 D		1	143582	SCI	EET HOU	02/02/24 17:50

Client Sample ID: MW-2

Date Collected: 01/29/24 11:30

Date Received: 01/30/24 15:15

Lab Sample ID: 880-38669-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	142967	NA	EET HOU	01/31/24 13:54
Total/NA	Analysis	8015 NM		1	130308	ELJ	EET HOU	02/01/24 15:06
Total/NA	Prep	8015NM Aq Prep			143187	TH	EET HOU	02/01/24 07:43
Total/NA	Analysis	8015B NM		1	143174	T1S	EET HOU	02/01/24 15:06
Total/NA	Analysis	300.0		1	143060	WP	EET HOU	01/31/24 21:53
Total/NA	Analysis	300.0		1	143061	WP	EET HOU	01/31/24 21:53
Total/NA	Analysis	SM 2320B		1	143443	KEG	EET HOU	02/01/24 15:58
Total/NA	Analysis	SM 4500 CO2 D		1	141232	MC	EET HOU	02/03/24 15:33
Total/NA	Analysis	SM 4500 H+ B		1	143356	ALL	EET HOU	02/01/24 17:17

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: 880-38669-1

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: 880-38669-1

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: 880-38669-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38669-1	MW-1	Water	01/29/24 10:25	01/30/24 15:15
880-38669-2	MW-2	Water	01/29/24 11:30	01/30/24 15:15

- 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 (480-335-0800) Atlanta GA (770-449-8800) Tampa, FL (813) 233-3333
Hobbs, NM (575-392-7550)

Chain of Custody

2011m

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

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

Project Name:	South Hobbs	Turn Around
Project Number:	03B1417002	Routine ☐
P.O. Number:	03B1417002	Rush 24 Hr
Sampler's Name:	Shane Diller	Due Date

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	06/0.4						
Received Intact:	Yes	No			Thermometer ID	118	
Cooler Custody Seals:	Yes	No	N/A		Correction Factor:	+ 20	
Sample Custody Seals:	Yes	No	N/A		Total Containers:		

Analysis Request						Work Order Notes
Number of Containers						
Reduced Carbon Dioxide 4500 CO ₂ 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]

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn 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
					
	Jarvis	1/30/24			
	Wes	3:15			

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

2/6th/2024

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-38669-1

Login Number: 38669
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-38669-1

Login Number: 38669

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 01/31/24 10:57 AM

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



ANALYTICAL REPORT

January 09, 2024

Ensolum, LLC

Sample Delivery Group: L1693095
Samples Received: 01/04/2024
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

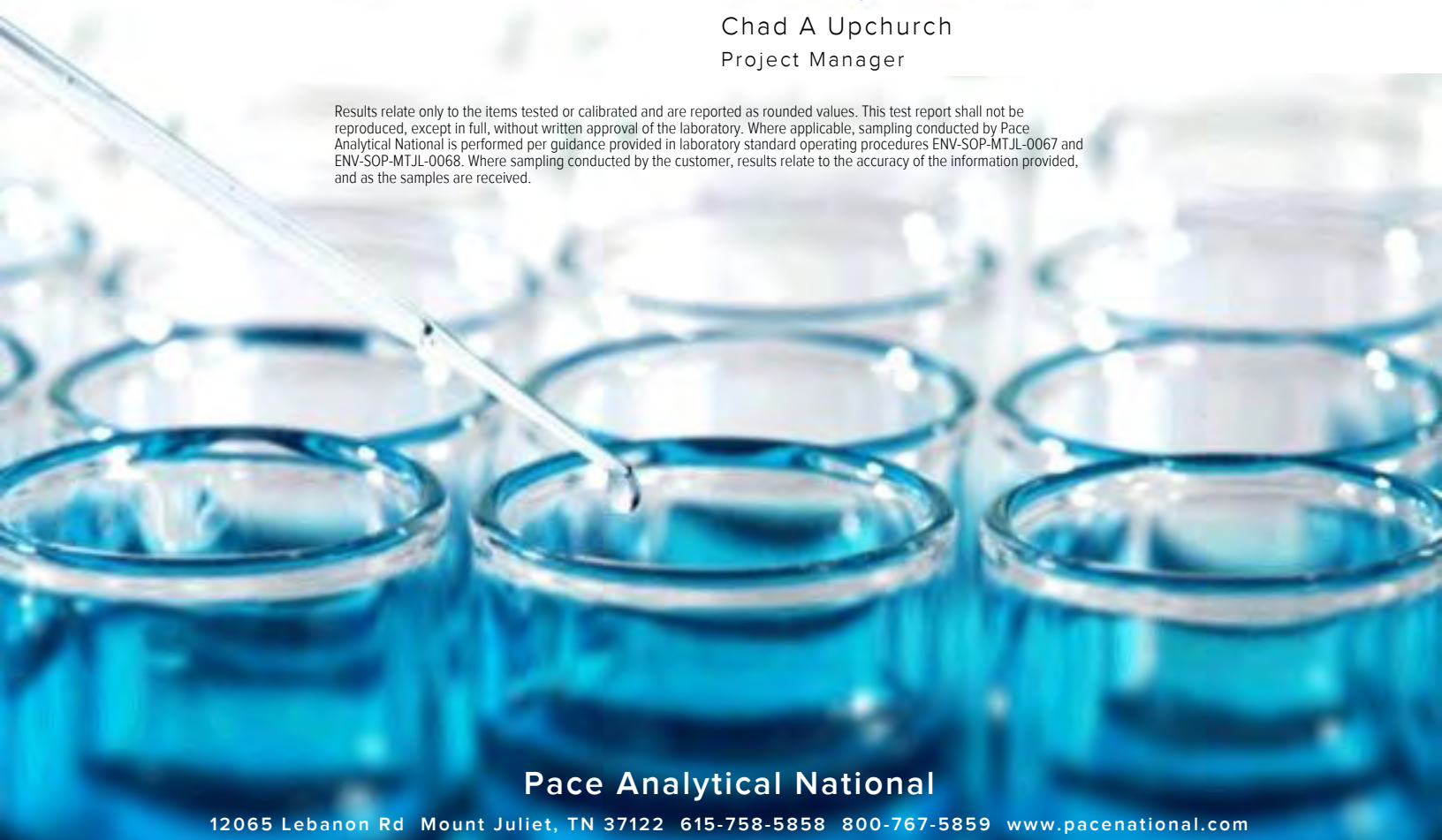


Entire Report Reviewed By:

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 L1693095-01	9	⁶ Sr
LEVEY WELL L1693095-02	11	
LEVEY WELL L1693095-03	13	⁷ Qc
LEVEY WELL L1693095-04	15	⁸ Gl
Qc: Quality Control Summary	17	
Volatile Organic Compounds (MS) by Method TO-15	17	⁹ Al
Gl: Glossary of Terms	27	
Al: Accreditations & Locations	28	¹⁰ Sc
Sc: Sample Chain of Custody	29	

LEVEY WELL L1693095-01 Air

Collected by
Shane Diller

Collected date/time
01/02/24 09:50

Received date/time
01/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2202206	500	01/06/24 15:16	01/06/24 15:16	JAP	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

LEVEY WELL L1693095-02 Air

Collected by
Shane Diller

Collected date/time
01/02/24 11:08

Received date/time
01/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2201516	1	01/05/24 17:20	01/05/24 17:20	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2202283	100	01/06/24 21:48	01/06/24 21:48	JAP	Mt. Juliet, TN

4
Cn

5
Tr

6
Sr

LEVEY WELL L1693095-03 Air

Collected by
Shane Diller

Collected date/time
01/02/24 12:02

Received date/time
01/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2201516	1	01/05/24 17:46	01/05/24 17:46	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2202283	10	01/06/24 16:28	01/06/24 16:28	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2203002	100	01/09/24 02:49	01/09/24 02:49	MNP	Mt. Juliet, TN

7
Qc

8
Gl

9
Al

LEVEY WELL L1693095-04 Air

Collected by
Shane Diller

Collected date/time
01/02/24 13:03

Received date/time
01/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2201516	1	01/05/24 18:12	01/05/24 18:12	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2202283	20	01/06/24 19:48	01/06/24 19:48	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2203002	100	01/09/24 03:27	01/09/24 03:27	MNP	Mt. Juliet, TN

10
Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

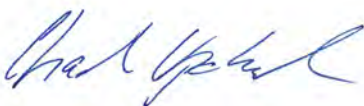
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 01/09/2024 15:45					
Project Name: Levey Well		Laboratory Job Number: L1693095-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2201516, WG2202283, WG2202206 and WG2203002					
# 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			2
		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: 01/09/2024 15:45				
Project Name: Levey Well			Laboratory Job Number: L1693095-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2201516, WG2202283, WG2202206 and WG2203002				
# 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: 01/09/2024 15:45	
Project Name: Levey Well		Laboratory Job Number: L1693095-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2201516, WG2202283, WG2202206 and WG2203002	
ER #¹	Description		
1	TO-15 WG2201516 L1693095-02: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).		
2	TO-15 WG2202206 1,3,5-Trimethylbenzene: 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: 01/02/24 09:50

L1693095

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	625	1490	628	1490		500	WG2202206
Allyl chloride	107-05-1	76.53	100	313	ND	ND		500	WG2202206
Benzene	71-43-2	78.10	100	319	ND	ND		500	WG2202206
Benzyl Chloride	100-44-7	127	100	519	ND	ND		500	WG2202206
Bromodichloromethane	75-27-4	164	100	671	ND	ND		500	WG2202206
Bromoform	75-25-2	253	300	3100	ND	ND		500	WG2202206
Bromomethane	74-83-9	94.90	100	388	ND	ND		500	WG2202206
1,3-Butadiene	106-99-0	54.10	1000	2210	ND	ND		500	WG2202206
Carbon disulfide	75-15-0	76.10	100	311	ND	ND		500	WG2202206
Carbon tetrachloride	56-23-5	154	100	630	ND	ND		500	WG2202206
Chlorobenzene	108-90-7	113	100	462	ND	ND		500	WG2202206
Chloroethane	75-00-3	64.50	100	264	ND	ND		500	WG2202206
Chloroform	67-66-3	119	100	487	ND	ND		500	WG2202206
Chloromethane	74-87-3	50.50	100	207	ND	ND		500	WG2202206
2-Chlorotoluene	95-49-8	126	100	515	ND	ND		500	WG2202206
Cyclohexane	110-82-7	84.20	100	344	2220	7650		500	WG2202206
Dibromochloromethane	124-48-1	208	100	851	ND	ND		500	WG2202206
1,2-Dibromoethane	106-93-4	188	100	769	ND	ND		500	WG2202206
1,2-Dichlorobenzene	95-50-1	147	100	601	ND	ND		500	WG2202206
1,3-Dichlorobenzene	541-73-1	147	100	601	ND	ND		500	WG2202206
1,4-Dichlorobenzene	106-46-7	147	100	601	ND	ND		500	WG2202206
1,2-Dichloroethane	107-06-2	99	100	405	ND	ND		500	WG2202206
1,1-Dichloroethane	75-34-3	98	100	401	ND	ND		500	WG2202206
1,1-Dichloroethene	75-35-4	96.90	100	396	ND	ND		500	WG2202206
cis-1,2-Dichloroethene	156-59-2	96.90	100	396	ND	ND		500	WG2202206
trans-1,2-Dichloroethene	156-60-5	96.90	100	396	ND	ND		500	WG2202206
1,2-Dichloropropane	78-87-5	113	100	462	ND	ND		500	WG2202206
cis-1,3-Dichloropropene	10061-01-5	111	100	454	ND	ND		500	WG2202206
trans-1,3-Dichloropropene	10061-02-6	111	100	454	ND	ND		500	WG2202206
1,4-Dioxane	123-91-1	88.10	315	1140	ND	ND		500	WG2202206
Ethanol	64-17-5	46.10	1250	2360	ND	ND		500	WG2202206
Ethylbenzene	100-41-4	106	100	434	ND	ND		500	WG2202206
4-Ethyltoluene	622-96-8	120	100	491	ND	ND		500	WG2202206
Trichlorofluoromethane	75-69-4	137.40	100	562	ND	ND		500	WG2202206
Dichlorodifluoromethane	75-71-8	120.92	100	495	ND	ND		500	WG2202206
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	100	766	ND	ND		500	WG2202206
1,2-Dichlorotetrafluoroethane	76-14-2	171	100	699	ND	ND		500	WG2202206
Heptane	142-82-5	100	100	409	1320	5400		500	WG2202206
Hexachloro-1,3-butadiene	87-68-3	261	315	3360	ND	ND		500	WG2202206
n-Hexane	110-54-3	86.20	315	1110	41900	148000		500	WG2202206
Isopropylbenzene	98-82-8	120.20	100	492	ND	ND		500	WG2202206
Methylene Chloride	75-09-2	84.90	100	347	ND	ND		500	WG2202206
Methyl Butyl Ketone	591-78-6	100	625	2560	ND	ND		500	WG2202206
2-Butanone (MEK)	78-93-3	72.10	625	1840	ND	ND		500	WG2202206
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	625	2560	ND	ND		500	WG2202206
Methyl methacrylate	80-62-6	100.12	100	409	1030	4220		500	WG2202206
MTBE	1634-04-4	88.10	100	360	ND	ND		500	WG2202206
Naphthalene	91-20-3	128	315	1650	ND	ND		500	WG2202206
2-Propanol	67-63-0	60.10	625	1540	1420	3490		500	WG2202206
Propene	115-07-1	42.10	625	1080	ND	ND		500	WG2202206
Styrene	100-42-5	104	100	425	ND	ND		500	WG2202206
1,1,2,2-Tetrachloroethane	79-34-5	168	100	687	ND	ND		500	WG2202206
Tetrachloroethylene	127-18-4	166	100	679	ND	ND		500	WG2202206
Tetrahydrofuran	109-99-9	72.10	100	295	ND	ND		500	WG2202206
Toluene	108-88-3	92.10	250	942	ND	ND		500	WG2202206
1,2,4-Trichlorobenzene	120-82-1	181	315	2330	ND	ND		500	WG2202206

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/02/24 09:50

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	100	544	ND	ND		500	WG2202206
1,1,2-Trichloroethane	79-00-5	133	100	544	ND	ND		500	WG2202206
Trichloroethylene	79-01-6	131	100	536	ND	ND		500	WG2202206
1,2,4-Trimethylbenzene	95-63-6	120	100	491	ND	ND		500	WG2202206
1,3,5-Trimethylbenzene	108-67-8	120	100	491	ND	ND	J4	500	WG2202206
2,2,4-Trimethylpentane	540-84-1	114.22	100	467	ND	ND		500	WG2202206
Vinyl chloride	75-01-4	62.50	100	256	ND	ND		500	WG2202206
Vinyl Bromide	593-60-2	106.95	100	437	ND	ND		500	WG2202206
Vinyl acetate	108-05-4	86.10	315	1110	ND	ND		500	WG2202206
m&p-Xylene	179601-23-1	106	200	867	ND	ND		500	WG2202206
o-Xylene	95-47-6	106	100	434	ND	ND		500	WG2202206
TPH (GC/MS) Low Fraction	8006-61-9	101	100000	413000	106000	438000		500	WG2202206
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2202206

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 01/02/24 11:08

L1693095

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	ND	ND		1	WG2201516
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2201516
Benzene	71-43-2	78.10	0.200	0.639	13.0	41.5		1	WG2201516
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2201516
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2201516
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2201516
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2201516
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2201516
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2201516
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2201516
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2201516
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2201516
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2201516
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2201516
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2201516
Cyclohexane	110-82-7	84.20	20.0	68.9	105	362		100	WG2202283
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2201516
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2201516
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2201516
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2201516
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2201516
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2201516
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2201516
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2201516
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2201516
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2201516
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2201516
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2201516
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2201516
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2201516
Ethanol	64-17-5	46.10	2.50	4.71	6.17	11.6	B	1	WG2201516
Ethylbenzene	100-41-4	106	0.200	0.867	17.9	77.6		1	WG2201516
4-Ethyltoluene	622-96-8	120	0.200	0.982	8.59	42.2		1	WG2201516
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2201516
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.353	1.75		1	WG2201516
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2201516
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2201516
Heptane	142-82-5	100	20.0	81.8	99.9	409		100	WG2202283
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2201516
n-Hexane	110-54-3	86.20	63.0	222	1400	4940		100	WG2202283
Isopropylbenzene	98-82-8	120.20	0.200	0.983	3.52	17.3		1	WG2201516
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2201516
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2201516
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2201516
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2201516
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2201516
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2201516
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2201516
2-Propanol	67-63-0	60.10	1.25	3.07	4.12	10.1		1	WG2201516
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2201516
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2201516
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2201516
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2201516
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2201516
Toluene	108-88-3	92.10	0.500	1.88	112	422	E	1	WG2201516
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2201516

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/02/24 11:08

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	WG2201516
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2201516
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2201516
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	8.34	40.9		1	WG2201516
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	4.35	21.3		1	WG2201516
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2201516
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2201516
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2201516
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2201516
m&p-Xylene	179601-23-1	106	0.400	1.73	68.3	296		1	WG2201516
o-Xylene	95-47-6	106	0.200	0.867	20.8	90.2		1	WG2201516
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	ND	ND		100	WG2202283
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		113				WG2201516
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.2				WG2202283

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Collected date/time: 01/02/24 12:02

L1693095

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	ND	ND		1	WG2201516
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2201516
Benzene	71-43-2	78.10	0.200	0.639	4.42	14.1		1	WG2201516
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2201516
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2201516
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2201516
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2201516
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2201516
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2201516
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2201516
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2201516
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2201516
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2201516
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2201516
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2201516
Cyclohexane	110-82-7	84.20	2.00	6.89	121	417		10	WG2202283
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2201516
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2201516
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2201516
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2201516
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2201516
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2201516
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2201516
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2201516
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2201516
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2201516
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2201516
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2201516
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2201516
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2201516
Ethanol	64-17-5	46.10	2.50	4.71	4.33	8.16	B	1	WG2201516
Ethylbenzene	100-41-4	106	0.200	0.867	15.9	68.9		1	WG2201516
4-Ethyltoluene	622-96-8	120	0.200	0.982	7.89	38.7		1	WG2201516
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2201516
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.428	2.12		1	WG2201516
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2201516
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2201516
Heptane	142-82-5	100	2.00	8.18	132	540		10	WG2202283
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2201516
n-Hexane	110-54-3	86.20	63.0	222	1170	4120		100	WG2203002
Isopropylbenzene	98-82-8	120.20	0.200	0.983	3.23	15.9		1	WG2201516
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2201516
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2201516
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2201516
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2201516
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2201516
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2201516
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2201516
2-Propanol	67-63-0	60.10	1.25	3.07	3.32	8.16		1	WG2201516
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2201516
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2201516
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2201516
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2201516
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2201516
Toluene	108-88-3	92.10	0.500	1.88	77.6	292		1	WG2201516
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2201516

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/02/24 12:02

L1693095

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	WG2201516
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2201516
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2201516
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	7.51	36.9		1	WG2201516
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	4.01	19.7		1	WG2201516
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2201516
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2201516
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2201516
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2201516
m&p-Xylene	179601-23-1	106	0.400	1.73	62.0	269		1	WG2201516
o-Xylene	95-47-6	106	0.200	0.867	19.3	83.7		1	WG2201516
TPH (GC/MS) Low Fraction	8006-61-9	101	2000	8260	3220	13300	<u>B</u>	10	WG2202283
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		111				WG2201516
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		85.6				WG2202283
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.7				WG2203002

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Collected date/time: 01/02/24 13:03

L1693095

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	ND	ND		1	WG2201516
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2201516
Benzene	71-43-2	78.10	0.200	0.639	8.52	27.2		1	WG2201516
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2201516
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2201516
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2201516
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2201516
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2201516
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2201516
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2201516
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2201516
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2201516
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2201516
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2201516
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2201516
Cyclohexane	110-82-7	84.20	4.00	13.8	164	565		20	WG2202283
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2201516
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2201516
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2201516
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2201516
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2201516
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2201516
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2201516
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2201516
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	3.87	15.3		1	WG2201516
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2201516
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2201516
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2201516
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2201516
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2201516
Ethanol	64-17-5	46.10	2.50	4.71	7.11	13.4	B	1	WG2201516
Ethylbenzene	100-41-4	106	0.200	0.867	17.1	74.1		1	WG2201516
4-Ethyltoluene	622-96-8	120	0.200	0.982	7.90	38.8		1	WG2201516
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.228	1.28		1	WG2201516
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2201516
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	0.213	1.63		1	WG2201516
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2201516
Heptane	142-82-5	100	4.00	16.4	154	630		20	WG2202283
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2201516
n-Hexane	110-54-3	86.20	63.0	222	2920	10300		100	WG2203002
Isopropylbenzene	98-82-8	120.20	0.200	0.983	3.36	16.5		1	WG2201516
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2201516
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2201516
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2201516
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2201516
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2201516
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2201516
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2201516
2-Propanol	67-63-0	60.10	1.25	3.07	4.04	9.93		1	WG2201516
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2201516
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2201516
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2201516
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2201516
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2201516
Toluene	108-88-3	92.10	0.500	1.88	98.3	370		1	WG2201516
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2201516

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/02/24 13:03

L1693095

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	WG2201516
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2201516
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2201516
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	7.87	38.6		1	WG2201516
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	4.09	20.1		1	WG2201516
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2201516
Vinyl chloride	75-01-4	62.50	0.200	0.511	2.25	5.75		1	WG2201516
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2201516
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2201516
m&p-Xylene	179601-23-1	106	0.400	1.73	65.3	283		1	WG2201516
o-Xylene	95-47-6	106	0.200	0.867	19.5	84.5		1	WG2201516
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	4110	17000	B	20	WG2202283
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		113				WG2201516
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.4				WG2202283
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.9				WG2203002

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Cp

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Tc

3

Ss

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Cn

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Tr

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Sr

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Qc

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Gl

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Al

10

Sc

Volatile Organic Compounds (MS) by Method TO-15

L1693095-02.03.04

Method Blank (MB)

(MB) R4020329-3 01/05/24 09:54

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	0.862	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

1

Cp

2

Tc

3

Ss

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Cn

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Tr

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Sr

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Qc

8

Gl

9

Al

10

Sc

Volatile Organic Compounds (MS) by Method TO-15

L1693095-02.03.04

Method Blank (MB)

(MB) R4020329-3 01/05/24 09:54

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	0.299	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	97.0		60.0-140	

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4020329-1 01/05/24 09:02 • (LCSD) R4020329-2 01/05/24 09:28

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	3.89	3.79	104	101	70.0-130			2.60	25
Allyl chloride	3.75	4.41	4.27	118	114	70.0-130			3.23	25
Benzene	3.75	4.16	4.17	111	111	70.0-130			0.240	25
Benzyl Chloride	3.75	4.86	4.76	130	127	70.0-152			2.08	25
Bromodichloromethane	3.75	4.29	4.17	114	111	70.0-130			2.84	25
Bromoform	3.75	4.17	4.07	111	109	70.0-130			2.43	25
Bromomethane	3.75	3.93	3.96	105	106	70.0-130			0.760	25
1,3-Butadiene	3.75	4.02	3.98	107	106	70.0-130			1.00	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4020329-1 01/05/24 09:02 • (LCSD) R4020329-2 01/05/24 09:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	3.75	3.61	3.48	96.3	92.8	70.0-130			3.67	25
Carbon tetrachloride	3.75	4.14	3.99	110	106	70.0-130			3.69	25
Chlorobenzene	3.75	4.09	4.06	109	108	70.0-130			0.736	25
Chloroethane	3.75	4.06	4.03	108	107	70.0-130			0.742	25
Chloroform	3.75	4.17	4.12	111	110	70.0-130			1.21	25
Chloromethane	3.75	4.13	4.09	110	109	70.0-130			0.973	25
2-Chlorotoluene	3.75	4.04	4.10	108	109	70.0-130			1.47	25
Dibromochloromethane	3.75	4.27	4.10	114	109	70.0-130			4.06	25
1,2-Dibromoethane	3.75	4.14	4.08	110	109	70.0-130			1.46	25
1,2-Dichlorobenzene	3.75	4.17	4.13	111	110	70.0-130			0.964	25
1,3-Dichlorobenzene	3.75	4.07	4.10	109	109	70.0-130			0.734	25
1,4-Dichlorobenzene	3.75	4.04	4.09	108	109	70.0-130			1.23	25
1,2-Dichloroethane	3.75	4.18	4.29	111	114	70.0-130			2.60	25
1,1-Dichloroethane	3.75	4.18	4.13	111	110	70.0-130			1.20	25
1,1-Dichloroethene	3.75	4.08	4.01	109	107	70.0-130			1.73	25
cis-1,2-Dichloroethene	3.75	4.08	4.04	109	108	70.0-130			0.985	25
trans-1,2-Dichloroethene	3.75	4.16	4.09	111	109	70.0-130			1.70	25
1,2-Dichloropropane	3.75	4.34	4.26	116	114	70.0-130			1.86	25
cis-1,3-Dichloropropene	3.75	4.49	4.51	120	120	70.0-130			0.444	25
trans-1,3-Dichloropropene	3.75	4.08	3.95	109	105	70.0-130			3.24	25
1,4-Dioxane	3.75	4.00	4.02	107	107	70.0-140			0.499	25
Ethanol	3.75	3.41	3.37	90.9	89.9	55.0-148			1.18	25
Ethylbenzene	3.75	4.11	4.16	110	111	70.0-130			1.21	25
4-Ethyltoluene	3.75	4.17	4.18	111	111	70.0-130			0.240	25
Trichlorofluoromethane	3.75	4.03	3.99	107	106	70.0-130			0.998	25
Dichlorodifluoromethane	3.75	4.04	4.00	108	107	64.0-139			0.995	25
1,1,2-Trichlorotrifluoroethane	3.75	3.96	3.92	106	105	70.0-130			1.02	25
1,2-Dichlorotetrafluoroethane	3.75	4.04	4.00	108	107	70.0-130			0.995	25
Hexachloro-1,3-butadiene	3.75	3.98	3.93	106	105	70.0-151			1.26	25
Isopropylbenzene	3.75	4.15	4.13	111	110	70.0-130			0.483	25
Methylene Chloride	3.75	3.78	3.73	101	99.5	70.0-130			1.33	25
Methyl Butyl Ketone	3.75	4.74	4.58	126	122	70.0-149			3.43	25
2-Butanone (MEK)	3.75	4.19	4.14	112	110	70.0-130			1.20	25
4-Methyl-2-pentanone (MIBK)	3.75	4.20	3.88	112	103	70.0-139			7.92	25
Methyl methacrylate	3.75	4.00	4.01	107	107	70.0-130			0.250	25
MTBE	3.75	3.91	3.89	104	104	70.0-130			0.513	25
Naphthalene	3.75	4.14	4.18	110	111	70.0-159			0.962	25
2-Propanol	3.75	3.66	3.57	97.6	95.2	70.0-139			2.49	25
Propene	3.75	4.24	4.22	113	113	64.0-144			0.473	25
Styrene	3.75	4.06	4.13	108	110	70.0-130			1.71	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1693095-02.03.04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4020329-1 01/05/24 09:02 • (LCSD) R4020329-2 01/05/24 09:28

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	4.29	4.28	114	114	70.0-130			0.233	25
Tetrachloroethylene	3.75	4.02	3.97	107	106	70.0-130			1.25	25
Tetrahydrofuran	3.75	4.22	4.23	113	113	70.0-137			0.237	25
Toluene	3.75	4.03	3.98	107	106	70.0-130			1.25	25
1,2,4-Trichlorobenzene	3.75	3.86	3.92	103	105	70.0-160			1.54	25
1,1,1-Trichloroethane	3.75	4.02	3.96	107	106	70.0-130			1.50	25
1,1,2-Trichloroethane	3.75	4.10	4.10	109	109	70.0-130			0.000	25
Trichloroethylene	3.75	4.04	4.07	108	109	70.0-130			0.740	25
1,2,4-Trimethylbenzene	3.75	4.11	4.19	110	112	70.0-130			1.93	25
1,3,5-Trimethylbenzene	3.75	4.11	4.15	110	111	70.0-130			0.969	25
2,2,4-Trimethylpentane	3.75	4.12	4.04	110	108	70.0-130			1.96	25
Vinyl chloride	3.75	4.11	4.06	110	108	70.0-130			1.22	25
Vinyl Bromide	3.75	4.01	3.87	107	103	70.0-130			3.55	25
Vinyl acetate	3.75	4.10	3.94	109	105	70.0-130			3.98	25
m&p-Xylene	7.50	8.28	8.36	110	111	70.0-130			0.962	25
o-Xylene	3.75	4.21	4.26	112	114	70.0-130			1.18	25
(S) 1,4-Bromofluorobenzene				99.8	101	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4020843-3 01/06/24 10:33

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	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

L1693095-01

Method Blank (MB)

(MB) R4020843-3 01/06/24 10:33

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	99.7			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4020843-1 01/06/24 09:01 • (LCSD) R4020843-2 01/06/24 09:47

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	3.89	4.01	104	107	70.0-130			3.04	25
Allyl chloride	3.75	3.42	4.10	91.2	109	70.0-130			18.1	25
Benzene	3.75	4.03	3.95	107	105	70.0-130			2.01	25
Benzyl Chloride	3.75	4.23	4.21	113	112	70.0-152			0.474	25

Volatile Organic Compounds (MS) by Method TO-15 [L1693095-01](#)

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4020843-1 01/06/24 09:01 • (LCSD) R4020843-2 01/06/24 09:47

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	4.16	3.99	111	106	70.0-130			4.17	25
Bromoform	3.75	3.87	3.80	103	101	70.0-130			1.83	25
Bromomethane	3.75	4.11	4.29	110	114	70.0-130			4.29	25
1,3-Butadiene	3.75	3.82	3.79	102	101	70.0-130			0.788	25
Carbon disulfide	3.75	4.01	4.16	107	111	70.0-130			3.67	25
Carbon tetrachloride	3.75	4.00	4.20	107	112	70.0-130			4.88	25
Chlorobenzene	3.75	4.01	4.02	107	107	70.0-130			0.249	25
Chloroethane	3.75	4.06	4.20	108	112	70.0-130			3.39	25
Chloroform	3.75	3.88	3.98	103	106	70.0-130			2.54	25
Chloromethane	3.75	3.91	3.83	104	102	70.0-130			2.07	25
2-Chlorotoluene	3.75	4.09	4.02	109	107	70.0-130			1.73	25
Cyclohexane	3.75	4.08	4.00	109	107	70.0-130			1.98	25
Dibromochloromethane	3.75	3.93	4.00	105	107	70.0-130			1.77	25
1,2-Dibromoethane	3.75	4.02	4.02	107	107	70.0-130			0.000	25
1,2-Dichlorobenzene	3.75	4.31	4.20	115	112	70.0-130			2.59	25
1,3-Dichlorobenzene	3.75	4.11	4.25	110	113	70.0-130			3.35	25
1,4-Dichlorobenzene	3.75	4.32	4.25	115	113	70.0-130			1.63	25
1,2-Dichloroethane	3.75	4.11	4.06	110	108	70.0-130			1.22	25
1,1-Dichloroethane	3.75	4.00	4.19	107	112	70.0-130			4.64	25
1,1-Dichloroethene	3.75	3.97	4.25	106	113	70.0-130			6.81	25
cis-1,2-Dichloroethene	3.75	3.89	4.11	104	110	70.0-130			5.50	25
trans-1,2-Dichloroethene	3.75	3.91	3.94	104	105	70.0-130			0.764	25
1,2-Dichloropropane	3.75	3.97	4.01	106	107	70.0-130			1.00	25
cis-1,3-Dichloropropene	3.75	3.96	3.92	106	105	70.0-130			1.02	25
trans-1,3-Dichloropropene	3.75	3.96	4.23	106	113	70.0-130			6.59	25
1,4-Dioxane	3.75	4.04	3.97	108	106	70.0-140			1.75	25
Ethanol	3.75	3.66	3.63	97.6	96.8	55.0-148			0.823	25
Ethylbenzene	3.75	3.93	3.90	105	104	70.0-130			0.766	25
4-Ethyltoluene	3.75	4.14	4.23	110	113	70.0-130			2.15	25
Trichlorofluoromethane	3.75	3.95	4.07	105	109	70.0-130			2.99	25
Dichlorodifluoromethane	3.75	4.08	4.07	109	109	64.0-139			0.245	25
1,1,2-Trichlorotrifluoroethane	3.75	3.97	4.20	106	112	70.0-130			5.63	25
1,2-Dichlorotetrafluoroethane	3.75	3.96	4.06	106	108	70.0-130			2.49	25
Heptane	3.75	4.08	4.08	109	109	70.0-130			0.000	25
Hexachloro-1,3-butadiene	3.75	4.16	4.19	111	112	70.0-151			0.719	25
n-Hexane	3.75	4.14	4.14	110	110	70.0-130			0.000	25
Isopropylbenzene	3.75	4.12	4.09	110	109	70.0-130			0.731	25
Methylene Chloride	3.75	3.98	4.10	106	109	70.0-130			2.97	25
Methyl Butyl Ketone	3.75	4.12	4.03	110	107	70.0-149			2.21	25
2-Butanone (MEK)	3.75	4.27	4.56	114	122	70.0-130			6.57	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1693095-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4020843-1 01/06/24 09:01 • (LCSD) R4020843-2 01/06/24 09:47

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	4.12	3.99	110	106	70.0-139			3.21	25
Methyl methacrylate	3.75	3.86	3.87	103	103	70.0-130			0.259	25
MTBE	3.75	3.84	4.03	102	107	70.0-130			4.83	25
Naphthalene	3.75	4.46	4.45	119	119	70.0-159			0.224	25
2-Propanol	3.75	3.85	3.93	103	105	70.0-139			2.06	25
Propene	3.75	3.61	3.90	96.3	104	64.0-144			7.72	25
Styrene	3.75	4.05	4.03	108	107	70.0-130			0.495	25
1,1,2,2-Tetrachloroethane	3.75	4.18	4.12	111	110	70.0-130			1.45	25
Tetrachloroethylene	3.75	4.13	4.11	110	110	70.0-130			0.485	25
Tetrahydrofuran	3.75	3.95	4.13	105	110	70.0-137			4.46	25
Toluene	3.75	4.01	4.07	107	109	70.0-130			1.49	25
1,2,4-Trichlorobenzene	3.75	4.35	4.38	116	117	70.0-160			0.687	25
1,1,1-Trichloroethane	3.75	4.03	4.06	107	108	70.0-130			0.742	25
1,1,2-Trichloroethane	3.75	4.09	4.08	109	109	70.0-130			0.245	25
Trichloroethylene	3.75	3.89	4.08	104	109	70.0-130			4.77	25
1,2,4-Trimethylbenzene	3.75	4.11	4.12	110	110	70.0-130			0.243	25
1,3,5-Trimethylbenzene	3.75	4.82	4.90	129	131	70.0-130		J4	1.65	25
2,2,4-Trimethylpentane	3.75	4.00	4.18	107	111	70.0-130			4.40	25
Vinyl chloride	3.75	4.09	4.03	109	107	70.0-130			1.48	25
Vinyl Bromide	3.75	4.10	4.13	109	110	70.0-130			0.729	25
Vinyl acetate	3.75	3.89	4.21	104	112	70.0-130			7.90	25
m&p-Xylene	7.50	8.22	8.01	110	107	70.0-130			2.59	25
o-Xylene	3.75	4.03	4.01	107	107	70.0-130			0.498	25
TPH (GC/MS) Low Fraction	188	182	190	96.8	101	70.0-130			4.30	25
(S) 1,4-Bromofluorobenzene				103	103	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1693095-02.03.04

Method Blank (MB)

(MB) R4020681-3 01/06/24 08:12

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	40.8	J	39.7	200
(S) 1,4-Bromofluorobenzene	91.9			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4020681-1 01/06/24 07:10 • (LCSD) R4020681-2 01/06/24 07:42

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	3.93	3.86	105	103	70.0-130			1.80	25
Heptane	3.75	4.25	4.02	113	107	70.0-130			5.56	25
n-Hexane	3.75	4.15	4.02	111	107	70.0-130			3.18	25
TPH (GC/MS) Low Fraction	188	186	188	98.9	100	70.0-130			1.07	25
(S) 1,4-Bromofluorobenzene				93.5	107	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1693095-03,04

Method Blank (MB)

(MB) R4021272-3 01/08/24 10:00

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	97.1			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4021272-1 01/08/24 08:41 • (LCSD) R4021272-2 01/08/24 09:21

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
n-Hexane	3.75	3.15	3.32	84.0	88.5	70.0-130			5.26	25
(S) 1,4-Bromofluorobenzene				100	99.2	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.
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: 6/13/2024 8:43:20 AM



ANALYTICAL REPORT

January 16, 2024

Ensolum, LLC

Sample Delivery Group: L1695967
Samples Received: 01/12/2024
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

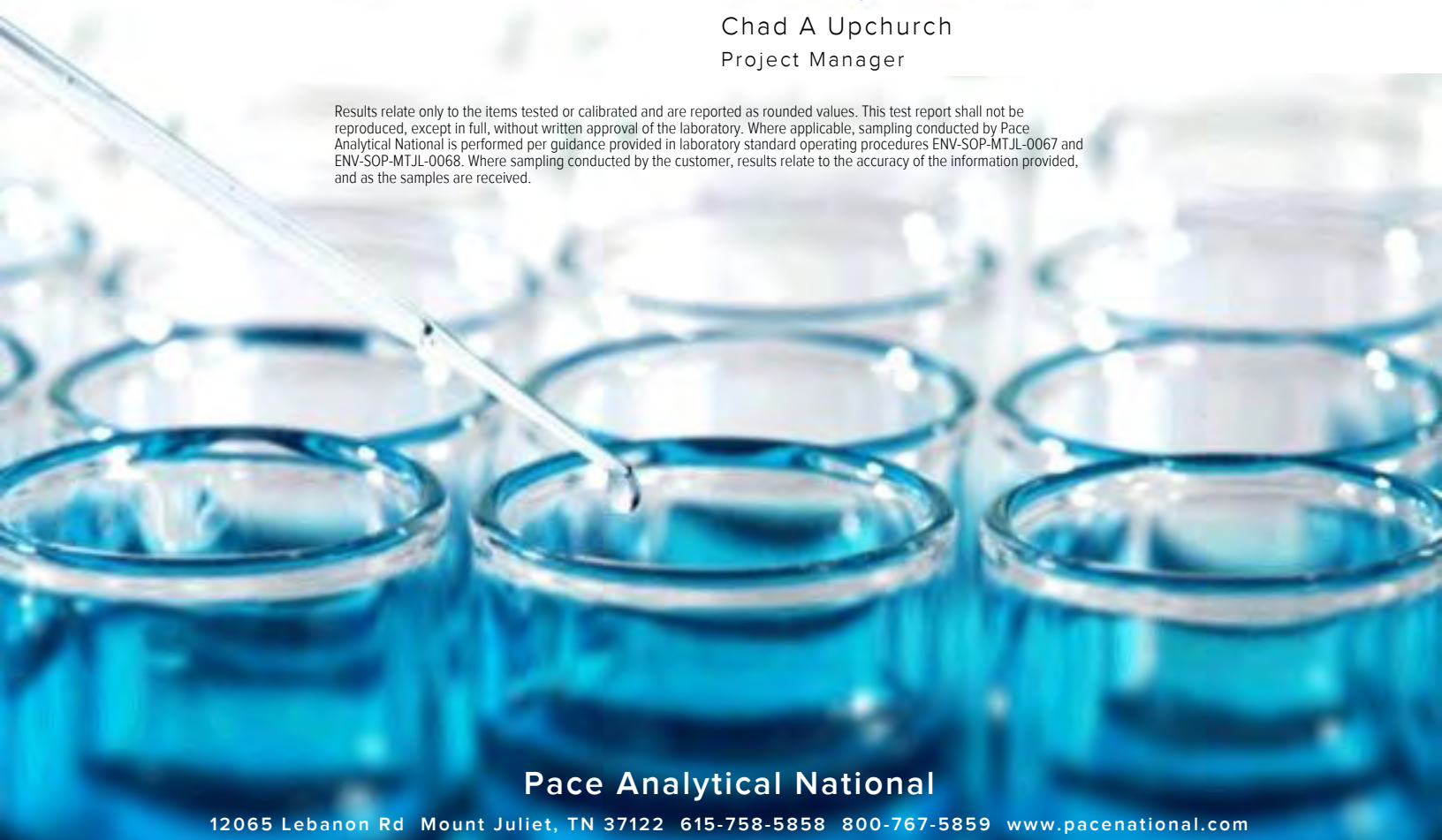


Entire Report Reviewed By:

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 L1695967-01	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 L1695967-01 Air

Collected by
Shane Diller

Collected date/time
01/10/24 09:56

Received date/time
01/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2206704	100	01/13/24 19:36	01/13/24 19:36	DBB	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2207659	1000	01/16/24 14:22	01/16/24 14:22	DBB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

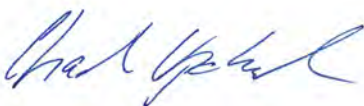
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 01/16/2024 15:04				
Project Name: Levey Well			Laboratory Job Number: L1695967-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2206704 and WG2207659				
# 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: 01/16/2024 15:04					
Project Name: Levey Well		Laboratory Job Number: L1695967-01					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2206704 and WG2207659					
# 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: 01/16/2024 15:04	
Project Name: Levey Well		Laboratory Job Number: L1695967-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2206704 and WG2207659	
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: 01/10/24 09:56

L1695967

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	984	2340		100	WG2206704
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2206704
Benzene	71-43-2	78.10	20.0	63.9	190	607		100	WG2206704
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2206704
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2206704
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2206704
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2206704
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2206704
Carbon disulfide	75-15-0	76.10	20.0	62.2	ND	ND		100	WG2206704
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2206704
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2206704
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2206704
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2206704
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2206704
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2206704
Cyclohexane	110-82-7	84.20	20.0	68.9	6420	22100		100	WG2206704
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2206704
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2206704
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2206704
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2206704
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2206704
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2206704
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2206704
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2206704
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2206704
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2206704
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2206704
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2206704
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2206704
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2206704
Ethanol	64-17-5	46.10	250	471	918	1730		100	WG2206704
Ethylbenzene	100-41-4	106	20.0	86.7	175	759		100	WG2206704
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2206704
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2206704
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2206704
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2206704
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2206704
Heptane	142-82-5	100	20.0	81.8	4380	17900		100	WG2206704
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2206704
n-Hexane	110-54-3	86.20	630	2220	24200	85300		1000	WG2207659
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2206704
Methylene Chloride	75-09-2	84.90	20.0	69.4	ND	ND		100	WG2206704
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2206704
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2206704
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2206704
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2206704
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2206704
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2206704
2-Propanol	67-63-0	60.10	125	307	2230	5480		100	WG2206704
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2206704
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2206704
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2206704
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2206704
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2206704
Toluene	108-88-3	92.10	50.0	188	858	3230		100	WG2206704
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2206704



Collected date/time: 01/10/24 09:56

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	WG2206704
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2206704
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2206704
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	ND	ND		100	WG2206704
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2206704
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2206704
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2206704
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2206704
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2206704
m&p-Xylene	179601-23-1	106	40.0	173	262	1140		100	WG2206704
o-Xylene	95-47-6	106	20.0	86.7	73.6	319		100	WG2206704
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	109000	450000		100	WG2206704
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2206704
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.7				WG2207659

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4023188-3 01/13/24 09:26

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	0.691	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

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

L1695967-01

Method Blank (MB)

(MB) R4023188-3 01/13/24 09:26

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	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	96.9			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4023188-1 01/13/24 08:08 • (LCSD) R4023188-2 01/13/24 08:48

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	4.08	4.15	109	111	70.0-130			1.70	25
Allyl chloride	3.75	3.94	4.16	105	111	70.0-130			5.43	25
Benzene	3.75	3.74	3.81	99.7	102	70.0-130			1.85	25
Benzyl Chloride	3.75	3.81	3.85	102	103	70.0-152			1.04	25
Bromodichloromethane	3.75	3.74	3.82	99.7	102	70.0-130			2.12	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4023188-1 01/13/24 08:08 • (LCSD) R4023188-2 01/13/24 08:48

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	3.59	3.61	95.7	96.3	70.0-130			0.556	25
Bromomethane	3.75	3.79	3.90	101	104	70.0-130			2.86	25
1,3-Butadiene	3.75	4.08	4.14	109	110	70.0-130			1.46	25
Carbon disulfide	3.75	3.71	3.81	98.9	102	70.0-130			2.66	25
Carbon tetrachloride	3.75	3.77	3.86	101	103	70.0-130			2.36	25
Chlorobenzene	3.75	3.70	3.77	98.7	101	70.0-130			1.87	25
Chloroethane	3.75	3.91	4.11	104	110	70.0-130			4.99	25
Chloroform	3.75	3.80	3.88	101	103	70.0-130			2.08	25
Chloromethane	3.75	3.98	4.08	106	109	70.0-130			2.48	25
2-Chlorotoluene	3.75	3.85	3.94	103	105	70.0-130			2.31	25
Cyclohexane	3.75	3.69	3.80	98.4	101	70.0-130			2.94	25
Dibromochloromethane	3.75	3.61	3.68	96.3	98.1	70.0-130			1.92	25
1,2-Dibromoethane	3.75	3.66	3.72	97.6	99.2	70.0-130			1.63	25
1,2-Dichlorobenzene	3.75	3.65	3.68	97.3	98.1	70.0-130			0.819	25
1,3-Dichlorobenzene	3.75	3.67	3.71	97.9	98.9	70.0-130			1.08	25
1,4-Dichlorobenzene	3.75	3.69	3.74	98.4	99.7	70.0-130			1.35	25
1,2-Dichloroethane	3.75	4.00	4.06	107	108	70.0-130			1.49	25
1,1-Dichloroethane	3.75	3.79	3.89	101	104	70.0-130			2.60	25
1,1-Dichloroethene	3.75	3.86	3.96	103	106	70.0-130			2.56	25
cis-1,2-Dichloroethene	3.75	3.80	3.88	101	103	70.0-130			2.08	25
trans-1,2-Dichloroethene	3.75	3.81	3.92	102	105	70.0-130			2.85	25
1,2-Dichloropropane	3.75	3.77	3.83	101	102	70.0-130			1.58	25
cis-1,3-Dichloropropene	3.75	3.71	3.78	98.9	101	70.0-130			1.87	25
trans-1,3-Dichloropropene	3.75	3.75	3.84	100	102	70.0-130			2.37	25
1,4-Dioxane	3.75	3.75	3.80	100	101	70.0-140			1.32	25
Ethanol	3.75	4.28	4.41	114	118	55.0-148			2.99	25
Ethylbenzene	3.75	3.77	3.83	101	102	70.0-130			1.58	25
4-Ethyltoluene	3.75	3.85	3.91	103	104	70.0-130			1.55	25
Trichlorofluoromethane	3.75	3.83	3.93	102	105	70.0-130			2.58	25
Dichlorodifluoromethane	3.75	3.89	4.01	104	107	64.0-139			3.04	25
1,1,2-Trichlorotrifluoroethane	3.75	3.64	3.75	97.1	100	70.0-130			2.98	25
1,2-Dichlorotetrafluoroethane	3.75	3.75	3.83	100	102	70.0-130			2.11	25
Heptane	3.75	3.89	3.99	104	106	70.0-130			2.54	25
Hexachloro-1,3-butadiene	3.75	3.42	3.43	91.2	91.5	70.0-151			0.292	25
Isopropylbenzene	3.75	3.81	3.84	102	102	70.0-130			0.784	25
Methylene Chloride	3.75	3.87	4.00	103	107	70.0-130			3.30	25
Methyl Butyl Ketone	3.75	4.11	4.23	110	113	70.0-149			2.88	25
2-Butanone (MEK)	3.75	3.72	3.80	99.2	101	70.0-130			2.13	25
4-Methyl-2-pentanone (MIBK)	3.75	4.10	4.20	109	112	70.0-139			2.41	25
Methyl methacrylate	3.75	3.68	3.90	98.1	104	70.0-130			5.80	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1695967-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4023188-1 01/13/24 08:08 • (LCSD) R4023188-2 01/13/24 08:48

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.85	3.93	103	105	70.0-130			2.06	25
Naphthalene	3.75	3.57	3.56	95.2	94.9	70.0-159			0.281	25
2-Propanol	3.75	4.05	4.18	108	111	70.0-139			3.16	25
Propene	3.75	4.07	4.23	109	113	64.0-144			3.86	25
Styrene	3.75	3.74	3.78	99.7	101	70.0-130			1.06	25
1,1,2,2-Tetrachloroethane	3.75	3.79	3.85	101	103	70.0-130			1.57	25
Tetrachloroethylene	3.75	3.57	3.64	95.2	97.1	70.0-130			1.94	25
Tetrahydrofuran	3.75	4.05	4.09	108	109	70.0-137			0.983	25
Toluene	3.75	3.72	3.79	99.2	101	70.0-130			1.86	25
1,2,4-Trichlorobenzene	3.75	3.33	3.37	88.8	89.9	70.0-160			1.19	25
1,1,1-Trichloroethane	3.75	3.77	3.86	101	103	70.0-130			2.36	25
1,1,2-Trichloroethane	3.75	3.59	3.69	95.7	98.4	70.0-130			2.75	25
Trichloroethylene	3.75	3.65	3.74	97.3	99.7	70.0-130			2.44	25
1,2,4-Trimethylbenzene	3.75	3.83	3.86	102	103	70.0-130			0.780	25
1,3,5-Trimethylbenzene	3.75	3.82	3.89	102	104	70.0-130			1.82	25
2,2,4-Trimethylpentane	3.75	3.84	3.95	102	105	70.0-130			2.82	25
Vinyl chloride	3.75	4.01	4.12	107	110	70.0-130			2.71	25
Vinyl Bromide	3.75	3.62	3.71	96.5	98.9	70.0-130			2.46	25
Vinyl acetate	3.75	3.84	3.89	102	104	70.0-130			1.29	25
m&p-Xylene	7.50	7.60	7.75	101	103	70.0-130			1.95	25
o-Xylene	3.75	3.80	3.88	101	103	70.0-130			2.08	25
TPH (GC/MS) Low Fraction	188	182	184	96.8	97.9	70.0-130			1.09	25
(S) 1,4-Bromofluorobenzene				103	103	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1695967-01](#)

Method Blank (MB)

(MB) R4023301-3 01/16/24 10:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	95.5			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4023301-1 01/16/24 09:22 • (LCSD) R4023301-2 01/16/24 09:51

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	3.78	3.71	101	98.9	70.0-130			1.87	25
(S) 1,4-Bromofluorobenzene				99.2	99.4	60.0-140				

1

Cp

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Tc

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Ss

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Cn

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Tr

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

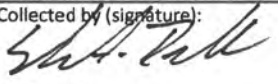
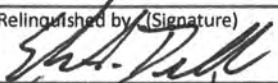
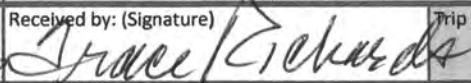
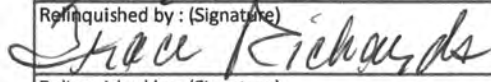
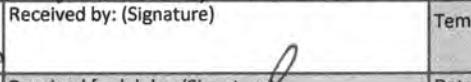
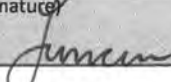
⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Company Name/Address: Ensolum, LLC 601 Marienfeld #400 Midland, TX 79701		Billing Information: Accounts Payable 2351 W Northwest Hwy. Ste. 1203 Dallas, TX 75220		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>1</u>											
Report to: Beaux Jennings		Email To: bjennings@ensolum.com														 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf											
Project Description: Levey Well		City/State Collected: Hobbs NM		Please Circle: PT MT CT ET												SDG # 4695967											
Phone: 210-219-8858		Client Project # 03B1417001		Lab Project # ENSOLUMMTX-SUMMA												Table # J001											
Collected by (print): Shane Diller		Site/Facility ID # 03B1417001		P.O. # 03B1417001												Acctnum: ENSOLUMMTX											
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ☒ Three Day		Quote # Date Results Needed												Template: T180734											
Immediately Packed on Ice N ☐ X ☐ Y ☐																Prelogin: P827709											
																PM: 134 - Mark W. Beasley											
																PB:											
																Shipped Via:											
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs											Remarks	Sample # (lab only)								
Levey Well	G	Air	—	1-10-24	956	1	X												01								
Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N T/P#:																											
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		pH _____ Temp _____ Flow _____ Other _____												Sample Receipt Checklist COC Seal Present/Intact: ☐ NP ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☒ N Preservation Correct/Checked: ☐ Y ☒ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N											
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #																									
Relinquished by: (Signature) 		Date: 1/11/24		Time: 2:02		Received by: (Signature) 		Trip Blank Received: Yes / No HCL / MeOH TBR																			
Relinquished by: (Signature) 		Date: 1/11/24		Time: 2:29		Received by: (Signature) 		Temp: _____ °C Bottles Received:												If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 1-12-24		Time: 0900												Hold: Condition: NCF / 					



ANALYTICAL REPORT

January 29, 2024

Ensolum, LLC

Sample Delivery Group: L1698049

Samples Received: 01/23/2024

Project Number: 03B1417001

Description: Levey Well

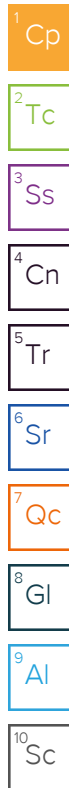
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

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 L1698049-01	9	⁶ Sr
LEVEY WELL L1698049-02	11	
LEVEY WELL L1698049-03	13	⁷ Qc
Qc: Quality Control Summary	15	⁸ Gl
Volatile Organic Compounds (MS) by Method TO-15	15	
Gl: Glossary of Terms	25	⁹ Al
Al: Accreditations & Locations	26	
Sc: Sample Chain of Custody	27	¹⁰ Sc

LEVEY WELL L1698049-01 Air

				Collected by	Collected date/time	Received date/time
					01/15/24 08:38	01/23/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2213908	20	01/26/24 15:49	01/26/24 15:49	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2214602	500	01/27/24 18:47	01/27/24 18:47	JAP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

LEVEY WELL L1698049-02 Air

				Collected by	Collected date/time	Received date/time
					01/15/24 11:30	01/23/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2212182	1	01/24/24 16:39	01/24/24 16:39	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2213927	10	01/26/24 14:21	01/26/24 14:21	DAH	Mt. Juliet, TN

⁴Cn

⁵Tr

⁶Sr

LEVEY WELL L1698049-03 Air

				Collected by	Collected date/time	Received date/time
					01/15/24 12:28	01/23/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2212182	1	01/24/24 17:08	01/24/24 17:08	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2213908	20	01/26/24 16:15	01/26/24 16:15	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2214602	100	01/27/24 19:30	01/27/24 19:30	JAP	Mt. Juliet, TN

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

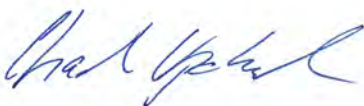
- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Tr
- ⁶Sr
- ⁷Qc
- ⁸Gl
- ⁹Al
- ¹⁰Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 01/29/2024 15:34					
Project Name: Levey Well		Laboratory Job Number: L1698049-01, 02 and 03					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2212182, WG2213908, WG2213927 and WG2214602					
# 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: 01/29/2024 15:34					
Project Name: Levey Well		Laboratory Job Number: L1698049-01, 02 and 03					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2212182, WG2213908, WG2213927 and WG2214602					
# 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: 01/29/2024 15:34	
Project Name: Levey Well		Laboratory Job Number: L1698049-01, 02 and 03	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2212182, WG2213908, WG2213927 and WG2214602	
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: 01/15/24 08:38

L1698049

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	ND	ND		20	WG2213908
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG2213908
Benzene	71-43-2	78.10	4.00	12.8	20.6	65.8		20	WG2213908
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG2213908
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG2213908
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG2213908
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG2213908
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG2213908
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG2213908
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG2213908
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG2213908
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG2213908
Chloroform	67-66-3	119	4.00	19.5	ND	ND		20	WG2213908
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG2213908
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG2213908
Cyclohexane	110-82-7	84.20	100	344	4440	15300		500	WG2214602
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG2213908
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG2213908
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG2213908
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG2213908
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG2213908
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG2213908
1,1-Dichloroethane	75-34-3	98	4.00	16.0	ND	ND		20	WG2213908
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	ND	ND		20	WG2213908
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	ND	ND		20	WG2213908
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	ND	ND		20	WG2213908
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG2213908
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG2213908
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG2213908
1,4-Dioxane	123-91-1	88.10	12.6	45.4	ND	ND		20	WG2213908
Ethanol	64-17-5	46.10	50.0	94.3	93.7	177		20	WG2213908
Ethylbenzene	100-41-4	106	4.00	17.3	5.82	25.2		20	WG2213908
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG2213908
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG2213908
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG2213908
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	ND	ND		20	WG2213908
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG2213908
Heptane	142-82-5	100	4.00	16.4	857	3510		20	WG2213908
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG2213908
n-Hexane	110-54-3	86.20	315	1110	10400	36700		500	WG2214602
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG2213908
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG2213908
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG2213908
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	1810	5340		20	WG2213908
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG2213908
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG2213908
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG2213908
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG2213908
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG2213908
Propene	115-07-1	42.10	25.0	43.0	ND	ND		20	WG2213908
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG2213908
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG2213908
Tetrachloroethylene	127-18-4	166	4.00	27.2	ND	ND		20	WG2213908
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG2213908
Toluene	108-88-3	92.10	10.0	37.7	106	399		20	WG2213908
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG2213908

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/15/24 08:38

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	ND	ND		20	WG2213908
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG2213908
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG2213908
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG2213908
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG2213908
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	ND	ND		20	WG2213908
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG2213908
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG2213908
Vinyl acetate	108-05-4	86.10	12.6	44.4	ND	ND		20	WG2213908
m&p-Xylene	179601-23-1	106	8.00	34.7	17.0	73.7		20	WG2213908
o-Xylene	95-47-6	106	4.00	17.3	5.32	23.1		20	WG2213908
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	23000	95000		20	WG2213908
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.8				WG2213908
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.8				WG2214602

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 01/15/24 11:30

L1698049

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	13.4	31.8		1	WG2212182
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2212182
Benzene	71-43-2	78.10	0.200	0.639	1.93	6.16		1	WG2212182
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2212182
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2212182
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2212182
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2212182
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2212182
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2212182
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2212182
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2212182
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2212182
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2212182
Chloromethane	74-87-3	50.50	0.200	0.413	0.514	1.06		1	WG2212182
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2212182
Cyclohexane	110-82-7	84.20	2.00	6.89	323	1110		10	WG2213927
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2212182
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2212182
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2212182
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2212182
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2212182
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2212182
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2212182
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2212182
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	0.294	1.17		1	WG2212182
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2212182
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2212182
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2212182
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2212182
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2212182
Ethanol	64-17-5	46.10	2.50	4.71	53.9	102		1	WG2212182
Ethylbenzene	100-41-4	106	0.200	0.867	1.66	7.20		1	WG2212182
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2212182
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2212182
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.380	1.88		1	WG2212182
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2212182
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2212182
Heptane	142-82-5	100	0.200	0.818	77.2	316		1	WG2212182
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2212182
n-Hexane	110-54-3	86.20	6.30	22.2	565	1990		10	WG2213927
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.252	1.24		1	WG2212182
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.900	3.13		1	WG2212182
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2212182
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2212182
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2212182
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2212182
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2212182
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2212182
2-Propanol	67-63-0	60.10	1.25	3.07	10.3	25.3		1	WG2212182
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2212182
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2212182
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2212182
Tetrachloroethylene	127-18-4	166	0.200	1.36	4.53	30.8		1	WG2212182
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2212182
Toluene	108-88-3	92.10	0.500	1.88	20.0	75.3		1	WG2212182
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2212182



Collected date/time: 01/15/24 11:30

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	WG2212182
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2212182
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2212182
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.222	1.09		1	WG2212182
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2212182
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2212182
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2212182
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2212182
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2212182
m&p-Xylene	179601-23-1	106	0.400	1.73	4.50	19.5		1	WG2212182
o-Xylene	95-47-6	106	0.200	0.867	1.51	6.55		1	WG2212182
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	1900	7850		1	WG2212182
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.7				WG2212182
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.0				WG2213927

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 01/15/24 12:28

L1698049

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	66.7	158		1	WG2212182
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2212182
Benzene	71-43-2	78.10	4.00	12.8	9.52	30.4		20	WG2213908
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2212182
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG2213908
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2212182
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2212182
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2212182
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.699	2.18		1	WG2212182
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2212182
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG2213908
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2212182
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2212182
Chloromethane	74-87-3	50.50	0.200	0.413	0.461	0.952		1	WG2212182
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2212182
Cyclohexane	110-82-7	84.20	20.0	68.9	1840	6340		100	WG2214602
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG2213908
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG2213908
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2212182
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2212182
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2212182
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG2213908
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2212182
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2212182
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	2.01	7.97		1	WG2212182
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2212182
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG2213908
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG2213908
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG2213908
1,4-Dioxane	123-91-1	88.10	12.6	45.4	ND	ND		20	WG2213908
Ethanol	64-17-5	46.10	2.50	4.71	36.4	68.6		1	WG2212182
Ethylbenzene	100-41-4	106	0.200	0.867	14.2	61.6		1	WG2212182
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.603	2.96		1	WG2212182
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2212182
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.334	1.65		1	WG2212182
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2212182
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2212182
Heptane	142-82-5	100	4.00	16.4	731	2990		20	WG2213908
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2212182
n-Hexane	110-54-3	86.20	63.0	222	2850	10000		100	WG2214602
Isopropylbenzene	98-82-8	120.20	0.200	0.983	2.39	11.7		1	WG2212182
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.265	0.920		1	WG2212182
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG2213908
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	4.86	14.3		1	WG2212182
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG2213908
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG2213908
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2212182
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2212182
2-Propanol	67-63-0	60.10	1.25	3.07	5.61	13.8		1	WG2212182
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2212182
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2212182
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2212182
Tetrachloroethylene	127-18-4	166	4.00	27.2	26.4	179		20	WG2213908
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2212182
Toluene	108-88-3	92.10	10.0	37.7	136	512		20	WG2213908
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2212182

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/15/24 12:28

L1698049

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	WG2212182
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG2213908
Trichloroethylene	79-01-6	131	4.00	21.4	ND	ND		20	WG2213908
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.23	6.04		1	WG2212182
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.10	5.40		1	WG2212182
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2212182
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2212182
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2212182
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2212182
m&p-Xylene	179601-23-1	106	0.400	1.73	43.7	189		1	WG2212182
o-Xylene	95-47-6	106	0.200	0.867	13.4	58.1		1	WG2212182
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	15100	62400		20	WG2213908
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		113				WG2212182
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.1				WG2213908
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.9				WG2214602

1

Cp

2

Tc

3

Ss

4

Cn

5

Tr

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R4026311-2 01/24/24 09:26

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	0.462	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1698049-02.03

Method Blank (MB)

(MB) R4026311-2 01/24/24 09:26

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	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	43.4	U	39.7	200
(S) 1,4-Bromofluorobenzene	95.0			60.0-140

Cp

Tc

Ss

Cn

Tr

Sr

Qc

Gl

Al

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4026311-1 01/24/24 08:58 • (LCSD) R4026311-3 01/24/24 09:55

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	3.65	3.57	97.3	95.2	70.0-130			2.22	25
Allyl chloride	3.75	3.56	3.58	94.9	95.5	70.0-130			0.560	25
Benzene	3.75	3.63	3.58	96.8	95.5	70.0-130			1.39	25
Benzyl Chloride	3.75	3.66	3.52	97.6	93.9	70.0-152			3.90	25
Bromodichloromethane	3.75	3.54	3.54	94.4	94.4	70.0-130			0.000	25
Bromoform	3.75	3.63	3.50	96.8	93.3	70.0-130			3.65	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4026311-1 01/24/24 08:58 • (LCSD) R4026311-3 01/24/24 09:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.52	3.52	93.9	93.9	70.0-130			0.000	25
1,3-Butadiene	3.75	3.67	3.61	97.9	96.3	70.0-130			1.65	25
Carbon disulfide	3.75	3.69	3.64	98.4	97.1	70.0-130			1.36	25
Carbon tetrachloride	3.75	3.58	3.56	95.5	94.9	70.0-130			0.560	25
Chlorobenzene	3.75	3.60	3.56	96.0	94.9	70.0-130			1.12	25
Chloroethane	3.75	3.34	3.40	89.1	90.7	70.0-130			1.78	25
Chloroform	3.75	3.58	3.59	95.5	95.7	70.0-130			0.279	25
Chloromethane	3.75	3.42	3.44	91.2	91.7	70.0-130			0.583	25
2-Chlorotoluene	3.75	3.76	3.73	100	99.5	70.0-130			0.801	25
Dibromochloromethane	3.75	3.62	3.59	96.5	95.7	70.0-130			0.832	25
1,2-Dibromoethane	3.75	3.66	3.64	97.6	97.1	70.0-130			0.548	25
1,2-Dichlorobenzene	3.75	3.77	3.66	101	97.6	70.0-130			2.96	25
1,3-Dichlorobenzene	3.75	3.84	3.65	102	97.3	70.0-130			5.07	25
1,4-Dichlorobenzene	3.75	3.90	3.68	104	98.1	70.0-130			5.80	25
1,2-Dichloroethane	3.75	3.66	3.63	97.6	96.8	70.0-130			0.823	25
1,1-Dichloroethane	3.75	3.52	3.48	93.9	92.8	70.0-130			1.14	25
1,1-Dichloroethene	3.75	3.61	3.66	96.3	97.6	70.0-130			1.38	25
cis-1,2-Dichloroethene	3.75	3.63	3.64	96.8	97.1	70.0-130			0.275	25
trans-1,2-Dichloroethene	3.75	3.66	3.64	97.6	97.1	70.0-130			0.548	25
1,2-Dichloropropane	3.75	3.51	3.53	93.6	94.1	70.0-130			0.568	25
cis-1,3-Dichloropropene	3.75	3.70	3.62	98.7	96.5	70.0-130			2.19	25
trans-1,3-Dichloropropene	3.75	3.67	3.66	97.9	97.6	70.0-130			0.273	25
1,4-Dioxane	3.75	3.86	3.62	103	96.5	70.0-140			6.42	25
Ethanol	3.75	3.62	3.37	96.5	89.9	55.0-148			7.15	25
Ethylbenzene	3.75	3.77	3.69	101	98.4	70.0-130			2.14	25
4-Ethyltoluene	3.75	3.93	3.79	105	101	70.0-130			3.63	25
Trichlorofluoromethane	3.75	3.60	3.59	96.0	95.7	70.0-130			0.278	25
Dichlorodifluoromethane	3.75	3.60	3.62	96.0	96.5	64.0-139			0.554	25
1,1,2-Trichlorotrifluoroethane	3.75	3.66	3.65	97.6	97.3	70.0-130			0.274	25
1,2-Dichlorotetrafluoroethane	3.75	3.58	3.55	95.5	94.7	70.0-130			0.842	25
Heptane	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
Hexachloro-1,3-butadiene	3.75	3.51	3.36	93.6	89.6	70.0-151			4.37	25
Isopropylbenzene	3.75	3.73	3.67	99.5	97.9	70.0-130			1.62	25
Methylene Chloride	3.75	3.54	3.58	94.4	95.5	70.0-130			1.12	25
Methyl Butyl Ketone	3.75	3.90	3.88	104	103	70.0-149			0.514	25
2-Butanone (MEK)	3.75	3.76	3.60	100	96.0	70.0-130			4.35	25
4-Methyl-2-pentanone (MIBK)	3.75	3.74	3.65	99.7	97.3	70.0-139			2.44	25
Methyl methacrylate	3.75	3.67	3.66	97.9	97.6	70.0-130			0.273	25
MTBE	3.75	3.70	3.65	98.7	97.3	70.0-130			1.36	25
Naphthalene	3.75	3.91	3.73	104	99.5	70.0-159			4.71	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1698049-02.03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4026311-1 01/24/24 08:58 • (LCSD) R4026311-3 01/24/24 09:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	3.69	3.67	98.4	97.9	70.0-139			0.543	25
Propene	3.75	3.62	3.48	96.5	92.8	64.0-144			3.94	25
Styrene	3.75	3.89	3.80	104	101	70.0-130			2.34	25
1,1,2,2-Tetrachloroethane	3.75	3.57	3.49	95.2	93.1	70.0-130			2.27	25
Tetrachloroethylene	3.75	3.66	3.64	97.6	97.1	70.0-130			0.548	25
Tetrahydrofuran	3.75	3.62	3.63	96.5	96.8	70.0-137			0.276	25
Toluene	3.75	3.72	3.66	99.2	97.6	70.0-130			1.63	25
1,2,4-Trichlorobenzene	3.75	4.03	3.77	107	101	70.0-160			6.67	25
1,1,1-Trichloroethane	3.75	3.57	3.57	95.2	95.2	70.0-130			0.000	25
1,1,2-Trichloroethane	3.75	3.59	3.59	95.7	95.7	70.0-130			0.000	25
Trichloroethylene	3.75	3.62	3.64	96.5	97.1	70.0-130			0.551	25
1,2,4-Trimethylbenzene	3.75	3.92	3.80	105	101	70.0-130			3.11	25
1,3,5-Trimethylbenzene	3.75	3.84	3.79	102	101	70.0-130			1.31	25
2,2,4-Trimethylpentane	3.75	3.72	3.70	99.2	98.7	70.0-130			0.539	25
Vinyl chloride	3.75	3.50	3.48	93.3	92.8	70.0-130			0.573	25
Vinyl Bromide	3.75	3.56	3.52	94.9	93.9	70.0-130			1.13	25
Vinyl acetate	3.75	3.55	3.56	94.7	94.9	70.0-130			0.281	25
m&p-Xylene	7.50	7.63	7.47	102	99.6	70.0-130			2.12	25
o-Xylene	3.75	3.85	3.76	103	100	70.0-130			2.37	25
TPH (GC/MS) Low Fraction	188	179	177	95.2	94.1	70.0-130			1.12	25
(S) 1,4-Bromofluorobenzene				99.8	100	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4026726-3 01/26/24 10:25

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	0.417	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4026726-3 01/26/24 10:25

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	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	42.6	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.6			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4026726-1 01/26/24 09:27 • (LCSD) R4026726-2 01/26/24 09:57

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	3.67	3.73	97.9	99.5	70.0-130			1.62	25
Allyl chloride	3.75	3.00	3.12	80.0	83.2	70.0-130			3.92	25
Benzene	3.75	3.71	3.81	98.9	102	70.0-130			2.66	25
Benzyl Chloride	3.75	3.85	3.84	103	102	70.0-152			0.260	25
Bromodichloromethane	3.75	3.43	3.46	91.5	92.3	70.0-130			0.871	25
Bromoform	3.75	3.48	3.51	92.8	93.6	70.0-130			0.858	25

Volatile Organic Compounds (MS) by Method TO-15

L1698049-01.03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4026726-1 01/26/24 09:27 • (LCSD) R4026726-2 01/26/24 09:57

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.61	3.66	96.3	97.6	70.0-130			1.38	25
1,3-Butadiene	3.75	3.60	3.69	96.0	98.4	70.0-130			2.47	25
Carbon disulfide	3.75	3.07	3.12	81.9	83.2	70.0-130			1.62	25
Carbon tetrachloride	3.75	3.55	3.61	94.7	96.3	70.0-130			1.68	25
Chlorobenzene	3.75	3.80	3.82	101	102	70.0-130			0.525	25
Chloroethane	3.75	3.44	3.48	91.7	92.8	70.0-130			1.16	25
Chloroform	3.75	3.68	3.70	98.1	98.7	70.0-130			0.542	25
Chloromethane	3.75	3.29	3.35	87.7	89.3	70.0-130			1.81	25
2-Chlorotoluene	3.75	4.03	4.05	107	108	70.0-130			0.495	25
Dibromochloromethane	3.75	3.55	3.56	94.7	94.9	70.0-130			0.281	25
1,2-Dibromoethane	3.75	3.80	3.90	101	104	70.0-130			2.60	25
1,2-Dichlorobenzene	3.75	4.02	4.09	107	109	70.0-130			1.73	25
1,3-Dichlorobenzene	3.75	4.07	4.12	109	110	70.0-130			1.22	25
1,4-Dichlorobenzene	3.75	4.18	4.22	111	113	70.0-130			0.952	25
1,2-Dichloroethane	3.75	3.59	3.60	95.7	96.0	70.0-130			0.278	25
1,1-Dichloroethane	3.75	3.62	3.67	96.5	97.9	70.0-130			1.37	25
1,1-Dichloroethene	3.75	3.28	3.33	87.5	88.8	70.0-130			1.51	25
cis-1,2-Dichloroethene	3.75	3.75	3.78	100	101	70.0-130			0.797	25
trans-1,2-Dichloroethene	3.75	3.19	3.17	85.1	84.5	70.0-130			0.629	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	3.76	3.81	100	102	70.0-130			1.32	25
trans-1,3-Dichloropropene	3.75	3.83	3.85	102	103	70.0-130			0.521	25
1,4-Dioxane	3.75	4.04	4.02	108	107	70.0-140			0.496	25
Ethanol	3.75	3.52	3.46	93.9	92.3	55.0-148			1.72	25
Ethylbenzene	3.75	4.01	4.09	107	109	70.0-130			1.98	25
4-Ethyltoluene	3.75	4.20	4.26	112	114	70.0-130			1.42	25
Trichlorofluoromethane	3.75	3.61	3.67	96.3	97.9	70.0-130			1.65	25
Dichlorodifluoromethane	3.75	3.46	3.50	92.3	93.3	64.0-139			1.15	25
1,1,2-Trichlorotrifluoroethane	3.75	3.36	3.46	89.6	92.3	70.0-130			2.93	25
1,2-Dichlorotetrafluoroethane	3.75	3.51	3.56	93.6	94.9	70.0-130			1.41	25
Heptane	3.75	3.77	3.72	101	99.2	70.0-130			1.34	25
Hexachloro-1,3-butadiene	3.75	3.93	3.85	105	103	70.0-151			2.06	25
Isopropylbenzene	3.75	4.03	4.10	107	109	70.0-130			1.72	25
Methylene Chloride	3.75	3.11	3.15	82.9	84.0	70.0-130			1.28	25
Methyl Butyl Ketone	3.75	3.95	4.02	105	107	70.0-149			1.76	25
2-Butanone (MEK)	3.75	3.93	3.96	105	106	70.0-130			0.760	25
4-Methyl-2-pentanone (MIBK)	3.75	3.79	3.82	101	102	70.0-139			0.788	25
Methyl methacrylate	3.75	3.83	3.92	102	105	70.0-130			2.32	25
MTBE	3.75	4.10	4.15	109	111	70.0-130			1.21	25
Naphthalene	3.75	4.26	4.25	114	113	70.0-159			0.235	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4026726-1 01/26/24 09:27 • (LCSD) R4026726-2 01/26/24 09:57

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	3.68	3.74	98.1	99.7	70.0-139			1.62	25
Propene	3.75	3.81	3.81	102	102	64.0-144			0.000	25
Styrene	3.75	4.23	4.32	113	115	70.0-130			2.11	25
1,1,2,2-Tetrachloroethane	3.75	3.65	3.67	97.3	97.9	70.0-130			0.546	25
Tetrachloroethylene	3.75	3.88	3.90	103	104	70.0-130			0.514	25
Tetrahydrofuran	3.75	3.82	3.95	102	105	70.0-137			3.35	25
Toluene	3.75	3.93	3.99	105	106	70.0-130			1.52	25
1,2,4-Trichlorobenzene	3.75	4.47	4.42	119	118	70.0-160			1.12	25
1,1,1-Trichloroethane	3.75	3.66	3.72	97.6	99.2	70.0-130			1.63	25
1,1,2-Trichloroethane	3.75	3.72	3.75	99.2	100	70.0-130			0.803	25
Trichloroethylene	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
1,2,4-Trimethylbenzene	3.75	4.16	4.20	111	112	70.0-130			0.957	25
1,3,5-Trimethylbenzene	3.75	4.15	4.23	111	113	70.0-130			1.91	25
2,2,4-Trimethylpentane	3.75	3.86	3.93	103	105	70.0-130			1.80	25
Vinyl chloride	3.75	3.47	3.51	92.5	93.6	70.0-130			1.15	25
Vinyl Bromide	3.75	3.63	3.70	96.8	98.7	70.0-130			1.91	25
Vinyl acetate	3.75	3.58	3.61	95.5	96.3	70.0-130			0.834	25
m&p-Xylene	7.50	8.00	8.12	107	108	70.0-130			1.49	25
o-Xylene	3.75	4.06	4.11	108	110	70.0-130			1.22	25
TPH (GC/MS) Low Fraction	188	183	185	97.3	98.4	70.0-130			1.09	25
(S) 1,4-Bromofluorobenzene				99.4	98.9	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1698049-02](#)

Method Blank (MB)

(MB) R4026738-3 01/26/24 10:16

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	92.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4026738-1 01/26/24 09:20 • (LCSD) R4026738-2 01/26/24 09:49

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	3.90	3.81	104	102	70.0-130			2.33	25
n-Hexane	3.75	4.17	4.06	111	108	70.0-130			2.67	25
(S) 1,4-Bromofluorobenzene				99.3	99.1	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15 [L1698049-01.03](#)

Method Blank (MB)

(MB) R4027308-3 01/27/24 08:55

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	99.6			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4027308-1 01/27/24 07:29 • (LCSD) R4027308-2 01/27/24 08:13

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	3.42	3.56	91.2	94.9	70.0-130			4.01	25
n-Hexane	3.75	3.12	3.16	83.2	84.3	70.0-130			1.27	25
(S) 1,4-Bromofluorobenzene				102	97.4	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

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

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		Contact/Report To: Beaux Jennings				 Scan QR code for instructions																																																													
Street Address: 601 N Marienfeld Street, Ste. 400 Midland, TX 79701		Phone #: 210-219-8858 E-Mail: bjennings@ensolum.com																																																																	
City, State Zip:		Cc E-Mail:																																																																	
Customer Project #:		Invoice to:																																																																	
Project Name:		Invoice:				J018																																																													
Site Collection Info/Facility ID (as applicable): ENSOLUMTX-SUMMA		Purchase Order # (if applicable): Quote #:																																																																	
Time Zone Collected: [] AK [] PT [x] MT [] CT [] ET		State origin of sample(s): New Mexico				AN 12/15/23																																																													
Data Deliverables:		Regulatory Program (CAA, RCRA, etc.) as applicable:																																																																	
☐ Level II ☐ Level III ☐ Level IV ☐ EQUIS ☐ Other _____		Rush (Pre-approval required): 2 Day 3 day 5 day Other _____		Permit # as applicable:		TO-15 Summa																																																													
		Date Results Requested:		Units for Reporting: ug/m³ PPBV mg/m³ PPMV																																																															
* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)												Lab Use Only																																																							
<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> </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>12465</td> <td>21744</td> <td>1-15-24</td> <td>0830</td> <td>1-15-24</td> <td>0838</td> <td>-24</td> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Levey Well</td> <td>Air</td> <td>28164</td> <td>21650</td> <td>1-15</td> <td>1123</td> <td>1-15</td> <td>1130</td> <td>-15</td> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Levey Well</td> <td>Air</td> <td>20764</td> <td>21673</td> <td>1-15</td> <td>1220</td> <td>1-15</td> <td>1228</td> <td>-25</td> <td>0</td> <td></td> <td></td> <td></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)	Date	Time	Date	Time	Levey Well	Air	12465	21744	1-15-24	0830	1-15-24	0838	-24	0				Levey Well	Air	28164	21650	1-15	1123	1-15	1130	-15	0				Levey Well	Air	20764	21673	1-15	1220	1-15	1228	-25
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)																																																							
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Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Size: 3 1L ☐ 6L ☐ 1.4L Bottles arrive intact: ☒ Y ☐ N Tag Color: G ☐ W ☒ P ☐ B Correct bottles used: ☒ Y ☐ N Tubing _____ Shunt _____ T/P #: _____												Sample Comment																																																							
																-01 -02 -03																																																			
Customer Remarks / Special Conditions / Possible Hazards:												Additional Instructions from Pace®:																																																							
Relinquished by/Company: (Signature) _____ Relinquished by/Company: (Signature) Trace Richards Relinquished by/Company: (Signature) _____ Relinquished by/Company: (Signature) _____ Date/Time: 1/17/24 1:08 Date/Time: 1/17/24 1:25 Date/Time: _____ Date/Time: _____ Collected By: _____ Printed Name: _____ Signature: _____ Received by/Company: (Signature) Trace Richards Received by/Company: (Signature) _____ Received by/Company: (Signature) _____ Received by/Company: (Signature) _____																																																																			
# Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C): _____ Corrected Temp. (°C): _____ Tracking Number: _____ Delivered by: In-Person Courier FedEX UPS Other																																																																			
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/ 1-23-24 6900												Page: _____ of: _____																																																							



ANALYTICAL REPORT

January 31, 2024

Ensolum, LLC

Sample Delivery Group: L1699559
Samples Received: 01/27/2024
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

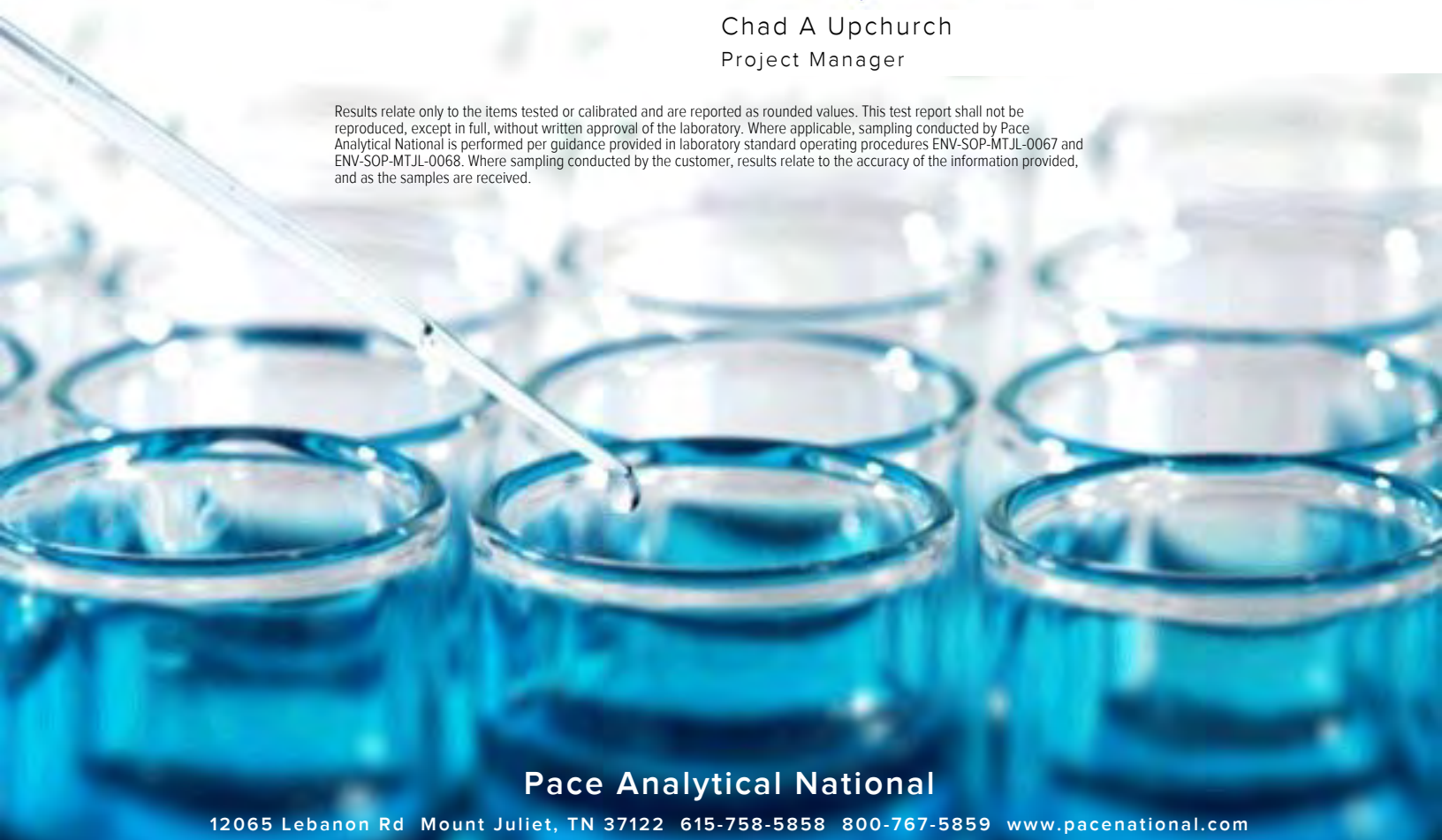


Entire Report Reviewed By:

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 L1699559-01	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 L1699559-01 Air

Collected by
Shane Diller

Collected date/time
01/25/24 10:28

Received date/time
01/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2214590	100	01/27/24 23:12	01/27/24 23:12	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2215979	2000	01/30/24 20:12	01/30/24 20:12	SDS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

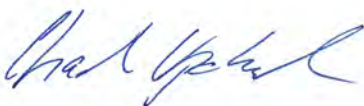
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 01/31/2024 08:46				
Project Name: Levey Well			Laboratory Job Number: L1699559-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2214590 and WG2215979				
# 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: 01/31/2024 08:46				
Project Name: Levey Well			Laboratory Job Number: L1699559-01				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2214590 and WG2215979				
# 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: 01/31/2024 08:46	
Project Name: Levey Well		Laboratory Job Number: L1699559-01	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2214590 and WG2215979	
ER # ¹	Description		
1	TO-15 WG2214590 Vinyl acetate: 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: 01/25/24 10:28

L1699559

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	ND	ND		100	WG2214590
Allyl chloride	107-05-1	76.53	20.0	62.6	ND	ND		100	WG2214590
Benzene	71-43-2	78.10	20.0	63.9	259	827		100	WG2214590
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2214590
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2214590
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2214590
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2214590
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2214590
Carbon disulfide	75-15-0	76.10	20.0	62.2	83.4	260		100	WG2214590
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2214590
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2214590
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2214590
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2214590
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2214590
2-Chlorotoluene	95-49-8	126	20.0	103	ND	ND		100	WG2214590
Cyclohexane	110-82-7	84.20	400	1380	94500	325000		2000	WG2215979
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2214590
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2214590
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2214590
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2214590
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2214590
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2214590
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2214590
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2214590
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2214590
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2214590
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2214590
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2214590
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2214590
1,4-Dioxane	123-91-1	88.10	63.0	227	ND	ND		100	WG2214590
Ethanol	64-17-5	46.10	250	471	782	1470		100	WG2214590
Ethylbenzene	100-41-4	106	20.0	86.7	238	1030		100	WG2214590
4-Ethyltoluene	622-96-8	120	20.0	98.2	ND	ND		100	WG2214590
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2214590
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2214590
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2214590
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2214590
Heptane	142-82-5	100	400	1640	15700	64200		2000	WG2215979
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2214590
n-Hexane	110-54-3	86.20	1260	4440	188000	663000		2000	WG2215979
Isopropylbenzene	98-82-8	120.20	20.0	98.3	33.0	162		100	WG2214590
Methylene Chloride	75-09-2	84.90	20.0	69.4	42.6	148		100	WG2214590
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2214590
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2214590
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2214590
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2214590
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2214590
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2214590
2-Propanol	67-63-0	60.10	125	307	ND	ND		100	WG2214590
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2214590
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2214590
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2214590
Tetrachloroethylene	127-18-4	166	20.0	136	ND	ND		100	WG2214590
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2214590
Toluene	108-88-3	92.10	50.0	188	3050	11500		100	WG2214590
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2214590

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/25/24 10:28

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	WG2214590
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2214590
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2214590
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	26.7	131		100	WG2214590
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2214590
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2214590
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2214590
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2214590
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND	J4	100	WG2214590
m&p-Xylene	179601-23-1	106	40.0	173	872	3780		100	WG2214590
o-Xylene	95-47-6	106	20.0	86.7	251	1090		100	WG2214590
TPH (GC/MS) Low Fraction	8006-61-9	101	20000	82600	267000	1100000		100	WG2214590
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		106				WG2214590
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2215979

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1699559-01

Method Blank (MB)

(MB) R4027359-3 01/27/24 11:49

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1699559-01

Method Blank (MB)

(MB) R4027359-3 01/27/24 11:49

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
TPH (GC/MS) Low Fraction	42.7	⬇	39.7	200
(S) 1,4-Bromofluorobenzene	103			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4027359-1 01/27/24 10:52 • (LCSD) R4027359-2 01/27/24 11:21

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	3.79	3.79	101	101	70.0-130			0.000	25
Allyl chloride	3.75	3.93	4.05	105	108	70.0-130			3.01	25
Benzene	3.75	3.78	3.88	101	103	70.0-130			2.61	25
Benzyl Chloride	3.75	3.99	4.16	106	111	70.0-152			4.17	25
Bromodichloromethane	3.75	3.81	3.86	102	103	70.0-130			1.30	25
Bromoform	3.75	3.84	3.90	102	104	70.0-130			1.55	25
Bromomethane	3.75	3.76	3.80	100	101	70.0-130			1.06	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4027359-1 01/27/24 10:52 • (LCSD) R4027359-2 01/27/24 11:21

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	3.75	3.79	3.98	101	106	70.0-130			4.89	25
Carbon disulfide	3.75	3.85	3.95	103	105	70.0-130			2.56	25
Carbon tetrachloride	3.75	3.83	3.93	102	105	70.0-130			2.58	25
Chlorobenzene	3.75	3.74	3.84	99.7	102	70.0-130			2.64	25
Chloroethane	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
Chloroform	3.75	3.90	3.94	104	105	70.0-130			1.02	25
Chloromethane	3.75	3.77	3.87	101	103	70.0-130			2.62	25
2-Chlorotoluene	3.75	3.86	4.02	103	107	70.0-130			4.06	25
Dibromochloromethane	3.75	3.90	3.95	104	105	70.0-130			1.27	25
1,2-Dibromoethane	3.75	3.82	3.93	102	105	70.0-130			2.84	25
1,2-Dichlorobenzene	3.75	3.87	3.97	103	106	70.0-130			2.55	25
1,3-Dichlorobenzene	3.75	3.97	4.06	106	108	70.0-130			2.24	25
1,4-Dichlorobenzene	3.75	4.04	3.97	108	106	70.0-130			1.75	25
1,2-Dichloroethane	3.75	3.85	3.95	103	105	70.0-130			2.56	25
1,1-Dichloroethane	3.75	3.82	3.96	102	106	70.0-130			3.60	25
1,1-Dichloroethene	3.75	3.90	3.96	104	106	70.0-130			1.53	25
cis-1,2-Dichloroethene	3.75	3.88	3.97	103	106	70.0-130			2.29	25
trans-1,2-Dichloroethene	3.75	3.40	3.44	90.7	91.7	70.0-130			1.17	25
1,2-Dichloropropane	3.75	3.82	3.85	102	103	70.0-130			0.782	25
cis-1,3-Dichloropropene	3.75	3.73	3.85	99.5	103	70.0-130			3.17	25
trans-1,3-Dichloropropene	3.75	3.77	3.82	101	102	70.0-130			1.32	25
1,4-Dioxane	3.75	4.30	4.42	115	118	70.0-140			2.75	25
Ethanol	3.75	3.65	3.82	97.3	102	55.0-148			4.55	25
Ethylbenzene	3.75	3.86	4.00	103	107	70.0-130			3.56	25
4-Ethyltoluene	3.75	3.95	4.03	105	107	70.0-130			2.01	25
Trichlorofluoromethane	3.75	3.83	3.91	102	104	70.0-130			2.07	25
Dichlorodifluoromethane	3.75	3.70	3.85	98.7	103	64.0-139			3.97	25
1,1,2-Trichlorotrifluoroethane	3.75	3.88	3.91	103	104	70.0-130			0.770	25
1,2-Dichlorotetrafluoroethane	3.75	3.79	3.85	101	103	70.0-130			1.57	25
Hexachloro-1,3-butadiene	3.75	3.66	3.70	97.6	98.7	70.0-151			1.09	25
Isopropylbenzene	3.75	3.89	3.98	104	106	70.0-130			2.29	25
Methylene Chloride	3.75	3.98	4.07	106	109	70.0-130			2.24	25
Methyl Butyl Ketone	3.75	5.00	5.00	133	133	70.0-149			0.000	25
2-Butanone (MEK)	3.75	3.90	3.96	104	106	70.0-130			1.53	25
4-Methyl-2-pentanone (MIBK)	3.75	3.60	3.77	96.0	101	70.0-139			4.61	25
Methyl methacrylate	3.75	3.59	3.65	95.7	97.3	70.0-130			1.66	25
MTBE	3.75	3.83	3.91	102	104	70.0-130			2.07	25
Naphthalene	3.75	4.19	4.28	112	114	70.0-159			2.13	25
2-Propanol	3.75	3.87	3.93	103	105	70.0-139			1.54	25
Propene	3.75	3.65	3.81	97.3	102	64.0-144			4.29	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1699559-01

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4027359-1 01/27/24 10:52 • (LCSD) R4027359-2 01/27/24 11:21

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	3.75	3.96	4.00	106	107	70.0-130			1.01	25
1,1,2,2-Tetrachloroethane	3.75	3.93	4.07	105	109	70.0-130			3.50	25
Tetrachloroethylene	3.75	3.81	3.68	102	98.1	70.0-130			3.47	25
Tetrahydrofuran	3.75	3.83	3.86	102	103	70.0-137			0.780	25
Toluene	3.75	3.74	3.83	99.7	102	70.0-130			2.38	25
1,2,4-Trichlorobenzene	3.75	4.00	4.12	107	110	70.0-160			2.96	25
1,1,1-Trichloroethane	3.75	3.75	3.84	100	102	70.0-130			2.37	25
1,1,2-Trichloroethane	3.75	3.83	3.86	102	103	70.0-130			0.780	25
Trichloroethylene	3.75	3.94	3.99	105	106	70.0-130			1.26	25
1,2,4-Trimethylbenzene	3.75	4.03	4.09	107	109	70.0-130			1.48	25
1,3,5-Trimethylbenzene	3.75	3.94	4.00	105	107	70.0-130			1.51	25
2,2,4-Trimethylpentane	3.75	3.87	3.92	103	105	70.0-130			1.28	25
Vinyl chloride	3.75	3.76	3.80	100	101	70.0-130			1.06	25
Vinyl Bromide	3.75	3.73	3.82	99.5	102	70.0-130			2.38	25
Vinyl acetate	3.75	2.66	2.49	70.9	66.4	70.0-130		J4	6.60	25
m&p-Xylene	7.50	7.88	8.05	105	107	70.0-130			2.13	25
o-Xylene	3.75	3.96	4.05	106	108	70.0-130			2.25	25
TPH (GC/MS) Low Fraction	188	186	189	98.9	101	70.0-130			1.60	25
(S) 1,4-Bromofluorobenzene				100	99.6	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1699559-01

Method Blank (MB)

(MB) R4027746-3 01/30/24 08:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
(S) 1,4-Bromofluorobenzene	96.8			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4027746-1 01/30/24 07:28 • (LCSD) R4027746-2 01/30/24 07:57

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	3.85	3.95	103	105	70.0-130			2.56	25
Heptane	3.75	4.41	4.26	118	114	70.0-130			3.46	25
n-Hexane	3.75	4.18	4.21	111	112	70.0-130			0.715	25
(S) 1,4-Bromofluorobenzene				98.0	98.7	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

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

Company Name/Address:

Ensolum, LLC

601 Marienfeld #400
Midland, TX 79701

Billing Information:

Accounts Payable
2351 W Northwest Hwy. Ste.
1203
Dallas, TX 75220Pres
Chk

Report to:

Beaux Jennings

Email To: bjennings@ensolum.com

Project Description:

Levey Well

City/State

Collected: Hobbs NM

Please Circle:

PT ☒ M ☐ CT ☐ ET

Phone: 210-219-8858

Client Project #

03B1417001

Lab Project #

ENSOLUMMTX-SUMMA

Collected by (print):

Shane Diller

Site/Facility ID #

03B1417001

P.O. #

03B1417001

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day☐ Next Day ☐ 5 Day (Rad Only)☐ Two Day ☐ 10 Day (Rad Only)☒ Three Day

Date Results Needed

No.

of

Cntrs

Immediately

Packed on Ice N ☐ X ☒ Y ☐

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Levey Well

G

Air

—

1-25-24 1028

1

X

TO-15 Summa

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N ☐ N
COC Signed/Accurate: ☒ Y ☐ N Size: ☒ 1L ☐ 6L ☐ 1.4L
Bottles arrive intact: ☒ Y ☐ N Tag Color: G ☐ W ☐ P ☐ B
Correct bottles used: ☒ Y ☐ N Tubing ☐ Shunt ☐

T/P#:

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature)

Date:

1/24/24

Time:

11:25

Received by: (Signature)

Trace Richards

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

1/26/24

Time:

11:53

Received by: (Signature)

E. H. W. W. W.

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 1/27/24

Time:

Hold:

Condition:

NCF / OK

Chain of Custody Page 422 of 449

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #

I163
Ta LILAP559

Acctnum: ENSOLUMMTX

Template: T180734

Prelogin: P827709

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks

Sample # (lab only)

-01



ANALYTICAL REPORT

February 05, 2024

Ensolum, LLC

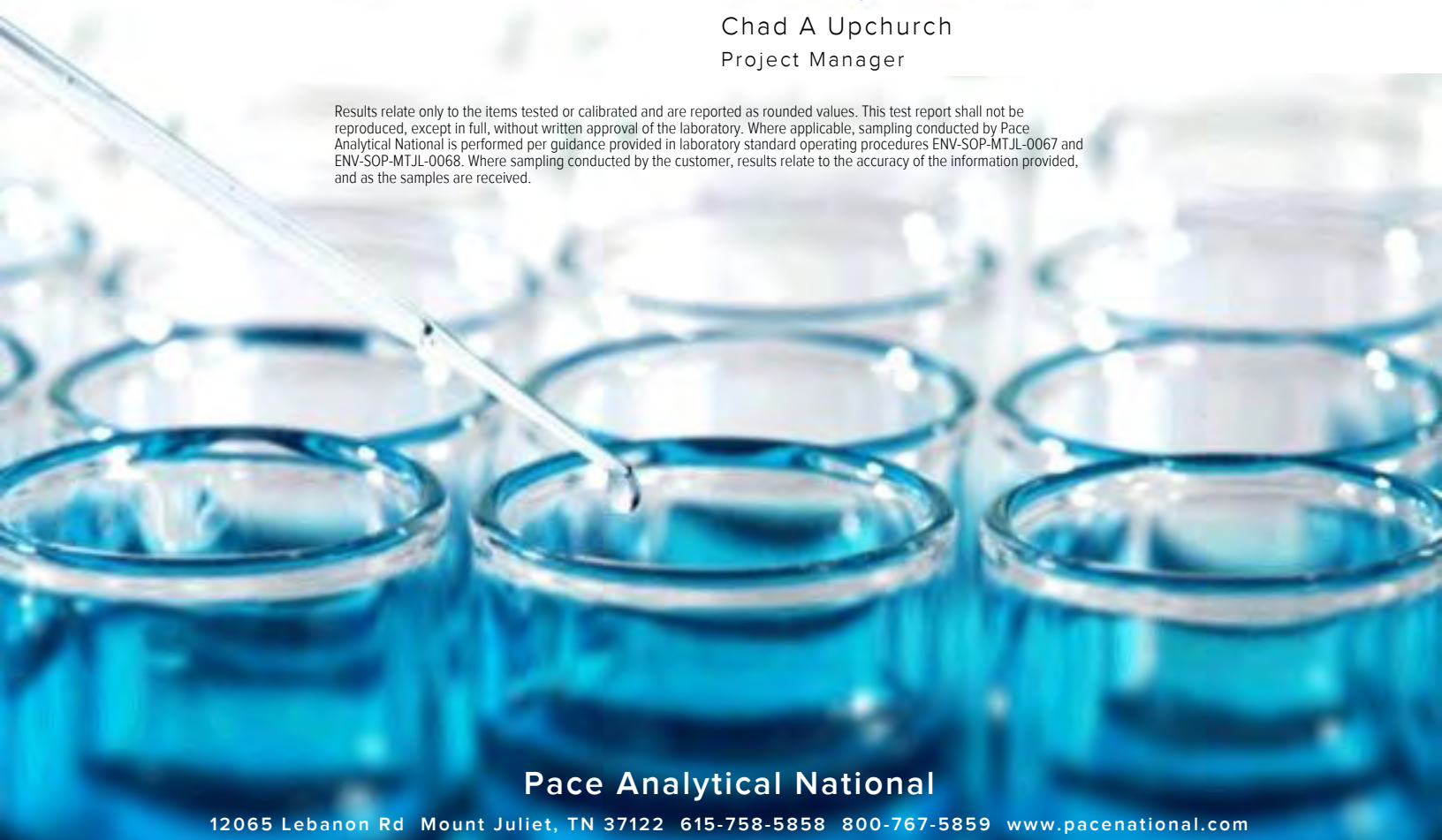
Sample Delivery Group: L1700705
Samples Received: 01/31/2024
Project Number: 03B1417001
Description: Levey Well
Site: 03B1417001
Report To: Beaux Jennings
601 N Marienfeld Street, Ste. 400
Midland, TX 79701

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Tr
- ⁶Sr
- ⁷Qc
- ⁸Gl
- ⁹Al
- ¹⁰Sc

Entire Report Reviewed By:

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 L1700705-01	9	
LEVEY WELL L1700705-02	11	
LEVEY WELL L1700705-03	13	⁷ Qc
LEVEY WELL L1700705-04	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 L1700705-01 Air

Collected by
Shane Diller

Collected date/time
01/29/24 09:34

Received date/time
01/31/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2217199	10	02/01/24 02:09	02/01/24 02:09	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2218915	200	02/03/24 01:48	02/03/24 01:48	DAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

LEVEY WELL L1700705-02 Air

Collected by
Shane Diller

Collected date/time
01/29/24 12:37

Received date/time
01/31/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2217199	1	02/01/24 01:43	02/01/24 01:43	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2218915	10	02/02/24 17:46	02/02/24 17:46	GH	Mt. Juliet, TN

LEVEY WELL L1700705-03 Air

Collected by
Shane Diller

Collected date/time
01/29/24 13:40

Received date/time
01/31/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2217199	1	02/01/24 01:15	02/01/24 01:15	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2218915	10	02/02/24 18:30	02/02/24 18:30	GH	Mt. Juliet, TN

LEVEY WELL L1700705-04 Air

Collected by
Shane Diller

Collected date/time
01/29/24 14:37

Received date/time
01/31/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2217199	1	02/01/24 00:47	02/01/24 00:47	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2218915	20	02/02/24 19:58	02/02/24 19:58	DAH	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

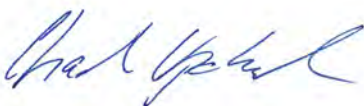
- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Chad A Upchurch
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National			LRC Date: 02/05/2024 09:16				
Project Name: Levey Well			Laboratory Job Number: L1700705-01, 02, 03 and 04				
Reviewer Name: Chad A Upchurch			Prep Batch Number(s): WG2217199 and WG2218915				
# 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			2
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: 02/05/2024 09:16					
Project Name: Levey Well		Laboratory Job Number: L1700705-01, 02, 03 and 04					
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2217199 and WG2218915					
# 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: 02/05/2024 09:16	
Project Name: Levey Well		Laboratory Job Number: L1700705-01, 02, 03 and 04	
Reviewer Name: Chad A Upchurch		Prep Batch Number(s): WG2217199 and WG2218915	
ER # ¹	Description		
1	TO-15 WG2217199 L1700705-02: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).		
2	TO-15 WG2217199 1,4-Bromofluorobenzene L1700705-04: 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: 01/29/24 09:34

L1700705

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	12.5	29.7	352	836		10	WG2217199
Allyl chloride	107-05-1	76.53	2.00	6.26	ND	ND		10	WG2217199
Benzene	71-43-2	78.10	2.00	6.39	43.2	138		10	WG2217199
Benzyl Chloride	100-44-7	127	2.00	10.4	ND	ND		10	WG2217199
Bromodichloromethane	75-27-4	164	2.00	13.4	ND	ND		10	WG2217199
Bromoform	75-25-2	253	6.00	62.1	ND	ND		10	WG2217199
Bromomethane	74-83-9	94.90	2.00	7.76	ND	ND		10	WG2217199
1,3-Butadiene	106-99-0	54.10	20.0	44.3	ND	ND		10	WG2217199
Carbon disulfide	75-15-0	76.10	2.00	6.22	13.4	41.7		10	WG2217199
Carbon tetrachloride	56-23-5	154	2.00	12.6	ND	ND		10	WG2217199
Chlorobenzene	108-90-7	113	2.00	9.24	ND	ND		10	WG2217199
Chloroethane	75-00-3	64.50	2.00	5.28	ND	ND		10	WG2217199
Chloroform	67-66-3	119	2.00	9.73	ND	ND		10	WG2217199
Chloromethane	74-87-3	50.50	2.00	4.13	ND	ND		10	WG2217199
2-Chlorotoluene	95-49-8	126	2.00	10.3	ND	ND		10	WG2217199
Cyclohexane	110-82-7	84.20	40.0	138	14700	50600		200	WG2218915
Dibromochloromethane	124-48-1	208	2.00	17.0	ND	ND		10	WG2217199
1,2-Dibromoethane	106-93-4	188	2.00	15.4	ND	ND		10	WG2217199
1,2-Dichlorobenzene	95-50-1	147	2.00	12.0	ND	ND		10	WG2217199
1,3-Dichlorobenzene	541-73-1	147	2.00	12.0	ND	ND		10	WG2217199
1,4-Dichlorobenzene	106-46-7	147	2.00	12.0	ND	ND		10	WG2217199
1,2-Dichloroethane	107-06-2	99	2.00	8.10	ND	ND		10	WG2217199
1,1-Dichloroethane	75-34-3	98	2.00	8.02	ND	ND		10	WG2217199
1,1-Dichloroethene	75-35-4	96.90	2.00	7.93	ND	ND		10	WG2217199
cis-1,2-Dichloroethene	156-59-2	96.90	2.00	7.93	ND	ND		10	WG2217199
trans-1,2-Dichloroethene	156-60-5	96.90	2.00	7.93	ND	ND		10	WG2217199
1,2-Dichloropropane	78-87-5	113	2.00	9.24	ND	ND		10	WG2217199
cis-1,3-Dichloropropene	10061-01-5	111	2.00	9.08	ND	ND		10	WG2217199
trans-1,3-Dichloropropene	10061-02-6	111	2.00	9.08	ND	ND		10	WG2217199
1,4-Dioxane	123-91-1	88.10	6.30	22.7	ND	ND		10	WG2217199
Ethanol	64-17-5	46.10	25.0	47.1	ND	ND		10	WG2217199
Ethylbenzene	100-41-4	106	2.00	8.67	48.1	209		10	WG2217199
4-Ethyltoluene	622-96-8	120	2.00	9.82	2.48	12.2		10	WG2217199
Trichlorofluoromethane	75-69-4	137.40	2.00	11.2	ND	ND		10	WG2217199
Dichlorodifluoromethane	75-71-8	120.92	2.00	9.89	ND	ND		10	WG2217199
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	2.00	15.3	ND	ND		10	WG2217199
1,2-Dichlorotetrafluoroethane	76-14-2	171	2.00	14.0	ND	ND		10	WG2217199
Heptane	142-82-5	100	40.0	164	2030	8300		200	WG2218915
Hexachloro-1,3-butadiene	87-68-3	261	6.30	67.3	ND	ND		10	WG2217199
n-Hexane	110-54-3	86.20	126	444	19100	67300		200	WG2218915
Isopropylbenzene	98-82-8	120.20	2.00	9.83	7.71	37.9		10	WG2217199
Methylene Chloride	75-09-2	84.90	2.00	6.94	ND	ND		10	WG2217199
Methyl Butyl Ketone	591-78-6	100	12.5	51.1	ND	ND		10	WG2217199
2-Butanone (MEK)	78-93-3	72.10	12.5	36.9	ND	ND		10	WG2217199
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	12.5	51.2	ND	ND		10	WG2217199
Methyl methacrylate	80-62-6	100.12	2.00	8.19	ND	ND		10	WG2217199
MTBE	1634-04-4	88.10	2.00	7.21	ND	ND		10	WG2217199
Naphthalene	91-20-3	128	6.30	33.0	ND	ND		10	WG2217199
2-Propanol	67-63-0	60.10	12.5	30.7	ND	ND		10	WG2217199
Propene	115-07-1	42.10	12.5	21.5	ND	ND		10	WG2217199
Styrene	100-42-5	104	2.00	8.51	ND	ND		10	WG2217199
1,1,2,2-Tetrachloroethane	79-34-5	168	2.00	13.7	ND	ND		10	WG2217199
Tetrachloroethylene	127-18-4	166	2.00	13.6	ND	ND		10	WG2217199
Tetrahydrofuran	109-99-9	72.10	2.00	5.90	ND	ND		10	WG2217199
Toluene	108-88-3	92.10	5.00	18.8	438	1650		10	WG2217199
1,2,4-Trichlorobenzene	120-82-1	181	6.30	46.6	ND	ND		10	WG2217199

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/29/24 09:34

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	2.00	10.9	ND	ND		10	WG2217199
1,1,2-Trichloroethane	79-00-5	133	2.00	10.9	ND	ND		10	WG2217199
Trichloroethylene	79-01-6	131	2.00	10.7	ND	ND		10	WG2217199
1,2,4-Trimethylbenzene	95-63-6	120	2.00	9.82	6.24	30.6		10	WG2217199
1,3,5-Trimethylbenzene	108-67-8	120	2.00	9.82	4.90	24.0		10	WG2217199
2,2,4-Trimethylpentane	540-84-1	114.22	2.00	9.34	ND	ND		10	WG2217199
Vinyl chloride	75-01-4	62.50	2.00	5.11	ND	ND		10	WG2217199
Vinyl Bromide	593-60-2	106.95	2.00	8.75	ND	ND		10	WG2217199
Vinyl acetate	108-05-4	86.10	6.30	22.2	ND	ND		10	WG2217199
m&p-Xylene	179601-23-1	106	4.00	17.3	178	772		10	WG2217199
o-Xylene	95-47-6	106	2.00	8.67	54.5	236		10	WG2217199
TPH (GC/MS) Low Fraction	8006-61-9	101	40000	165000	122000	504000		200	WG2218915
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2217199
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.2				WG2218915

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Collected date/time: 01/29/24 12:37

L1700705

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	16.7	39.7		1	WG2217199
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2217199
Benzene	71-43-2	78.10	0.200	0.639	0.973	3.11		1	WG2217199
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2217199
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2217199
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2217199
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2217199
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2217199
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.209	0.651		1	WG2217199
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2217199
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2217199
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2217199
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2217199
Chloromethane	74-87-3	50.50	0.200	0.413	0.509	1.05		1	WG2217199
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2217199
Cyclohexane	110-82-7	84.20	2.00	6.89	403	1390		10	WG2218915
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2217199
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2217199
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2217199
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2217199
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2217199
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2217199
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2217199
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2217199
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2217199
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2217199
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2217199
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2217199
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2217199
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2217199
Ethanol	64-17-5	46.10	2.50	4.71	107	202	E	1	WG2217199
Ethylbenzene	100-41-4	106	0.200	0.867	3.30	14.3		1	WG2217199
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.364	1.79		1	WG2217199
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.202	1.14		1	WG2217199
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.407	2.01		1	WG2217199
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2217199
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2217199
Heptane	142-82-5	100	0.200	0.818	40.8	167		1	WG2217199
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2217199
n-Hexane	110-54-3	86.20	6.30	22.2	307	1080		10	WG2218915
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.660	3.24		1	WG2217199
Methylene Chloride	75-09-2	84.90	0.200	0.694	24.4	84.7		1	WG2217199
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2217199
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2217199
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2217199
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2217199
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2217199
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2217199
2-Propanol	67-63-0	60.10	1.25	3.07	35.0	86.0		1	WG2217199
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2217199
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2217199
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2217199
Tetrachloroethylene	127-18-4	166	0.200	1.36	5.88	39.9		1	WG2217199
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2217199
Toluene	108-88-3	92.10	0.500	1.88	17.2	64.8		1	WG2217199
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2217199

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/29/24 12:37

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	WG2217199
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2217199
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2217199
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.15	5.64		1	WG2217199
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.753	3.70		1	WG2217199
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2217199
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2217199
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2217199
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2217199
m&p-Xylene	179601-23-1	106	0.400	1.73	13.5	58.5		1	WG2217199
o-Xylene	95-47-6	106	0.200	0.867	4.44	19.2		1	WG2217199
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	1530	6320		1	WG2217199
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2217199
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.3				WG2218915

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 01/29/24 13:40

L1700705

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	28.1	66.8		1	WG2217199
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2217199
Benzene	71-43-2	78.10	0.200	0.639	2.59	8.27		1	WG2217199
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2217199
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2217199
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2217199
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2217199
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2217199
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.612	1.90		1	WG2217199
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2217199
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2217199
Chloroethane	75-00-3	64.50	0.200	0.528	0.376	0.992		1	WG2217199
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2217199
Chloromethane	74-87-3	50.50	0.200	0.413	0.693	1.43		1	WG2217199
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2217199
Cyclohexane	110-82-7	84.20	2.00	6.89	535	1840		10	WG2218915
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2217199
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2217199
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2217199
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2217199
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2217199
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2217199
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2217199
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2217199
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2217199
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2217199
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2217199
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2217199
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2217199
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2217199
Ethanol	64-17-5	46.10	2.50	4.71	12.8	24.1		1	WG2217199
Ethylbenzene	100-41-4	106	0.200	0.867	27.7	120		1	WG2217199
4-Ethyltoluene	622-96-8	120	0.200	0.982	4.89	24.0		1	WG2217199
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2217199
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.419	2.07		1	WG2217199
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2217199
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2217199
Heptane	142-82-5	100	2.00	8.18	131	536		10	WG2218915
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2217199
n-Hexane	110-54-3	86.20	6.30	22.2	330	1160		10	WG2218915
Isopropylbenzene	98-82-8	120.20	0.200	0.983	7.26	35.7		1	WG2217199
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.771	2.68		1	WG2217199
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2217199
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.10	9.14		1	WG2217199
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2217199
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2217199
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2217199
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2217199
2-Propanol	67-63-0	60.10	1.25	3.07	3.71	9.12		1	WG2217199
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2217199
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2217199
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2217199
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2217199
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2217199
Toluene	108-88-3	92.10	0.500	1.88	84.2	317		1	WG2217199
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2217199

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Collected date/time: 01/29/24 13:40

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	WG2217199
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2217199
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2217199
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	13.8	67.7		1	WG2217199
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	9.68	47.5		1	WG2217199
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2217199
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2217199
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2217199
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2217199
m&p-Xylene	179601-23-1	106	0.400	1.73	126	546		1	WG2217199
o-Xylene	95-47-6	106	0.200	0.867	44.5	193		1	WG2217199
TPH (GC/MS) Low Fraction	8006-61-9	101	2000	8260	8230	34000		10	WG2218915
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		132				WG2217199
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.1				WG2218915

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Collected date/time: 01/29/24 14:37

L1700705

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	34.1	81.0		1	WG2217199
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2217199
Benzene	71-43-2	78.10	0.200	0.639	2.73	8.72		1	WG2217199
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2217199
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2217199
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2217199
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2217199
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2217199
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.870	2.71		1	WG2217199
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2217199
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2217199
Chloroethane	75-00-3	64.50	0.200	0.528	0.365	0.963		1	WG2217199
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2217199
Chloromethane	74-87-3	50.50	0.200	0.413	0.724	1.50		1	WG2217199
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2217199
Cyclohexane	110-82-7	84.20	4.00	13.8	963	3320		20	WG2218915
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2217199
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2217199
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2217199
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2217199
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2217199
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2217199
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2217199
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2217199
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2217199
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2217199
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2217199
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2217199
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2217199
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2217199
Ethanol	64-17-5	46.10	2.50	4.71	10.8	20.4		1	WG2217199
Ethylbenzene	100-41-4	106	0.200	0.867	36.7	159		1	WG2217199
4-Ethyltoluene	622-96-8	120	0.200	0.982	5.20	25.5		1	WG2217199
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.230	1.29		1	WG2217199
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.478	2.36		1	WG2217199
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2217199
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2217199
Heptane	142-82-5	100	4.00	16.4	262	1070		20	WG2218915
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2217199
n-Hexane	110-54-3	86.20	12.6	44.4	677	2390		20	WG2218915
Isopropylbenzene	98-82-8	120.20	0.200	0.983	9.71	47.7		1	WG2217199
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.651	2.26		1	WG2217199
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2217199
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2217199
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2217199
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2217199
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2217199
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2217199
2-Propanol	67-63-0	60.10	1.25	3.07	5.94	14.6		1	WG2217199
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2217199
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2217199
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2217199
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2217199
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2217199
Toluene	108-88-3	92.10	10.0	37.7	103	388		20	WG2218915
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2217199



Collected date/time: 01/29/24 14:37

L1700705

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	WG2217199
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2217199
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2217199
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	17.9	87.9		1	WG2217199
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	12.1	59.4		1	WG2217199
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2217199
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2217199
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2217199
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2217199
m&p-Xylene	179601-23-1	106	0.400	1.73	169	733		1	WG2217199
o-Xylene	95-47-6	106	0.200	0.867	59.4	258		1	WG2217199
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	16700	69000		20	WG2218915
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		148		J1		WG2217199
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2218915

Sample Narrative:

L1700705-04 WG2217199: Surrogate failure due to matrix interference

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4028374-3 01/31/24 09:56

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	0.0978	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	1.06	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (MS) by Method TO-15

L1700705-01,02,03,04

Method Blank (MB)

(MB) R4028374-3 01/31/24 09:56

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	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	41.6	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4028374-1 01/31/24 08:58 • (LCSD) R4028374-2 01/31/24 09:28

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	3.53	3.44	94.1	91.7	70.0-130			2.58	25
Allyl chloride	3.75	3.64	3.56	97.1	94.9	70.0-130			2.22	25
Benzene	3.75	3.70	3.78	98.7	101	70.0-130			2.14	25
Benzyl Chloride	3.75	3.71	3.87	98.9	103	70.0-152			4.22	25
Bromodichloromethane	3.75	3.90	3.93	104	105	70.0-130			0.766	25
Bromoform	3.75	3.66	3.75	97.6	100	70.0-130			2.43	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4028374-1 01/31/24 08:58 • (LCSD) R4028374-2 01/31/24 09:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.84	3.64	102	97.1	70.0-130			5.35	25
1,3-Butadiene	3.75	3.69	3.48	98.4	92.8	70.0-130			5.86	25
Carbon disulfide	3.75	3.79	3.74	101	99.7	70.0-130			1.33	25
Carbon tetrachloride	3.75	4.05	3.95	108	105	70.0-130			2.50	25
Chlorobenzene	3.75	3.81	3.90	102	104	70.0-130			2.33	25
Chloroethane	3.75	3.60	3.48	96.0	92.8	70.0-130			3.39	25
Chloroform	3.75	3.78	3.76	101	100	70.0-130			0.531	25
Chloromethane	3.75	3.49	3.43	93.1	91.5	70.0-130			1.73	25
2-Chlorotoluene	3.75	3.74	3.88	99.7	103	70.0-130			3.67	25
Dibromochloromethane	3.75	3.96	3.91	106	104	70.0-130			1.27	25
1,2-Dibromoethane	3.75	3.91	4.03	104	107	70.0-130			3.02	25
1,2-Dichlorobenzene	3.75	3.88	3.95	103	105	70.0-130			1.79	25
1,3-Dichlorobenzene	3.75	3.93	4.00	105	107	70.0-130			1.77	25
1,4-Dichlorobenzene	3.75	3.85	4.01	103	107	70.0-130			4.07	25
1,2-Dichloroethane	3.75	3.99	3.99	106	106	70.0-130			0.000	25
1,1-Dichloroethane	3.75	3.60	3.57	96.0	95.2	70.0-130			0.837	25
1,1-Dichloroethene	3.75	3.85	3.78	103	101	70.0-130			1.83	25
cis-1,2-Dichloroethene	3.75	3.67	3.69	97.9	98.4	70.0-130			0.543	25
trans-1,2-Dichloroethene	3.75	3.75	3.59	100	95.7	70.0-130			4.36	25
1,2-Dichloropropane	3.75	3.61	3.53	96.3	94.1	70.0-130			2.24	25
cis-1,3-Dichloropropene	3.75	3.85	3.90	103	104	70.0-130			1.29	25
trans-1,3-Dichloropropene	3.75	3.91	3.92	104	105	70.0-130			0.255	25
1,4-Dioxane	3.75	3.85	3.92	103	105	70.0-140			1.80	25
Ethanol	3.75	2.85	2.74	76.0	73.1	55.0-148			3.94	25
Ethylbenzene	3.75	3.89	4.00	104	107	70.0-130			2.79	25
4-Ethyltoluene	3.75	3.96	4.12	106	110	70.0-130			3.96	25
Trichlorofluoromethane	3.75	4.08	4.01	109	107	70.0-130			1.73	25
Dichlorodifluoromethane	3.75	4.16	3.97	111	106	64.0-139			4.67	25
1,1,2-Trichlorotrifluoroethane	3.75	4.04	3.86	108	103	70.0-130			4.56	25
1,2-Dichlorotetrafluoroethane	3.75	3.90	3.79	104	101	70.0-130			2.86	25
Heptane	3.75	3.59	3.58	95.7	95.5	70.0-130			0.279	25
Hexachloro-1,3-butadiene	3.75	4.11	4.19	110	112	70.0-151			1.93	25
Isopropylbenzene	3.75	3.88	4.00	103	107	70.0-130			3.05	25
Methylene Chloride	3.75	3.63	3.52	96.8	93.9	70.0-130			3.08	25
Methyl Butyl Ketone	3.75	3.75	3.71	100	98.9	70.0-149			1.07	25
2-Butanone (MEK)	3.75	3.71	3.69	98.9	98.4	70.0-130			0.541	25
4-Methyl-2-pentanone (MIBK)	3.75	3.94	3.81	105	102	70.0-139			3.35	25
Methyl methacrylate	3.75	3.47	3.55	92.5	94.7	70.0-130			2.28	25
MTBE	3.75	3.87	3.76	103	100	70.0-130			2.88	25
Naphthalene	3.75	3.94	4.07	105	109	70.0-159			3.25	25

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Volatile Organic Compounds (MS) by Method TO-15

L1700705-01,02,03,04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4028374-1 01/31/24 08:58 • (LCSD) R4028374-2 01/31/24 09:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	3.54	3.44	94.4	91.7	70.0-139			2.87	25
Propene	3.75	3.22	3.28	85.9	87.5	64.0-144			1.85	25
Styrene	3.75	3.90	3.99	104	106	70.0-130			2.28	25
1,1,2,2-Tetrachloroethane	3.75	3.63	3.72	96.8	99.2	70.0-130			2.45	25
Tetrachloroethylene	3.75	4.06	4.11	108	110	70.0-130			1.22	25
Tetrahydrofuran	3.75	3.58	3.44	95.5	91.7	70.0-137			3.99	25
Toluene	3.75	3.90	4.02	104	107	70.0-130			3.03	25
1,2,4-Trichlorobenzene	3.75	3.80	4.02	101	107	70.0-160			5.63	25
1,1,1-Trichloroethane	3.75	4.04	3.91	108	104	70.0-130			3.27	25
1,1,2-Trichloroethane	3.75	3.83	3.81	102	102	70.0-130			0.524	25
Trichloroethylene	3.75	3.84	3.96	102	106	70.0-130			3.08	25
1,2,4-Trimethylbenzene	3.75	4.08	4.18	109	111	70.0-130			2.42	25
1,3,5-Trimethylbenzene	3.75	4.07	4.20	109	112	70.0-130			3.14	25
2,2,4-Trimethylpentane	3.75	3.70	3.63	98.7	96.8	70.0-130			1.91	25
Vinyl chloride	3.75	3.63	3.64	96.8	97.1	70.0-130			0.275	25
Vinyl Bromide	3.75	3.84	3.80	102	101	70.0-130			1.05	25
Vinyl acetate	3.75	2.93	2.92	78.1	77.9	70.0-130			0.342	25
m&p-Xylene	7.50	7.94	8.14	106	109	70.0-130			2.49	25
o-Xylene	3.75	4.02	4.05	107	108	70.0-130			0.743	25
TPH (GC/MS) Low Fraction	188	184	180	97.9	95.7	70.0-130			2.20	25
(S) 1,4-Bromofluorobenzene				100	100	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4029377-3 02/02/24 15:38

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Cyclohexane	U		0.0753	0.200
Heptane	U		0.104	0.200
n-Hexane	U		0.206	0.630
Toluene	U		0.0870	0.500
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	103			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4029377-1 02/02/24 12:16 • (LCSD) R4029377-2 02/02/24 12:55

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyclohexane	3.75	3.63	4.11	96.8	110	70.0-130			12.4	25
Heptane	3.75	3.71	3.98	98.9	106	70.0-130			7.02	25
n-Hexane	3.75	3.55	3.81	94.7	102	70.0-130			7.07	25
Toluene	3.75	3.71	3.92	98.9	105	70.0-130			5.50	25
TPH (GC/MS) Low Fraction	188	174	176	92.6	93.6	70.0-130			1.14	25
(S) 1,4-Bromofluorobenzene				102	102	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Tr

6Sr

7Qc

8Gl

9Al

10Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
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.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

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

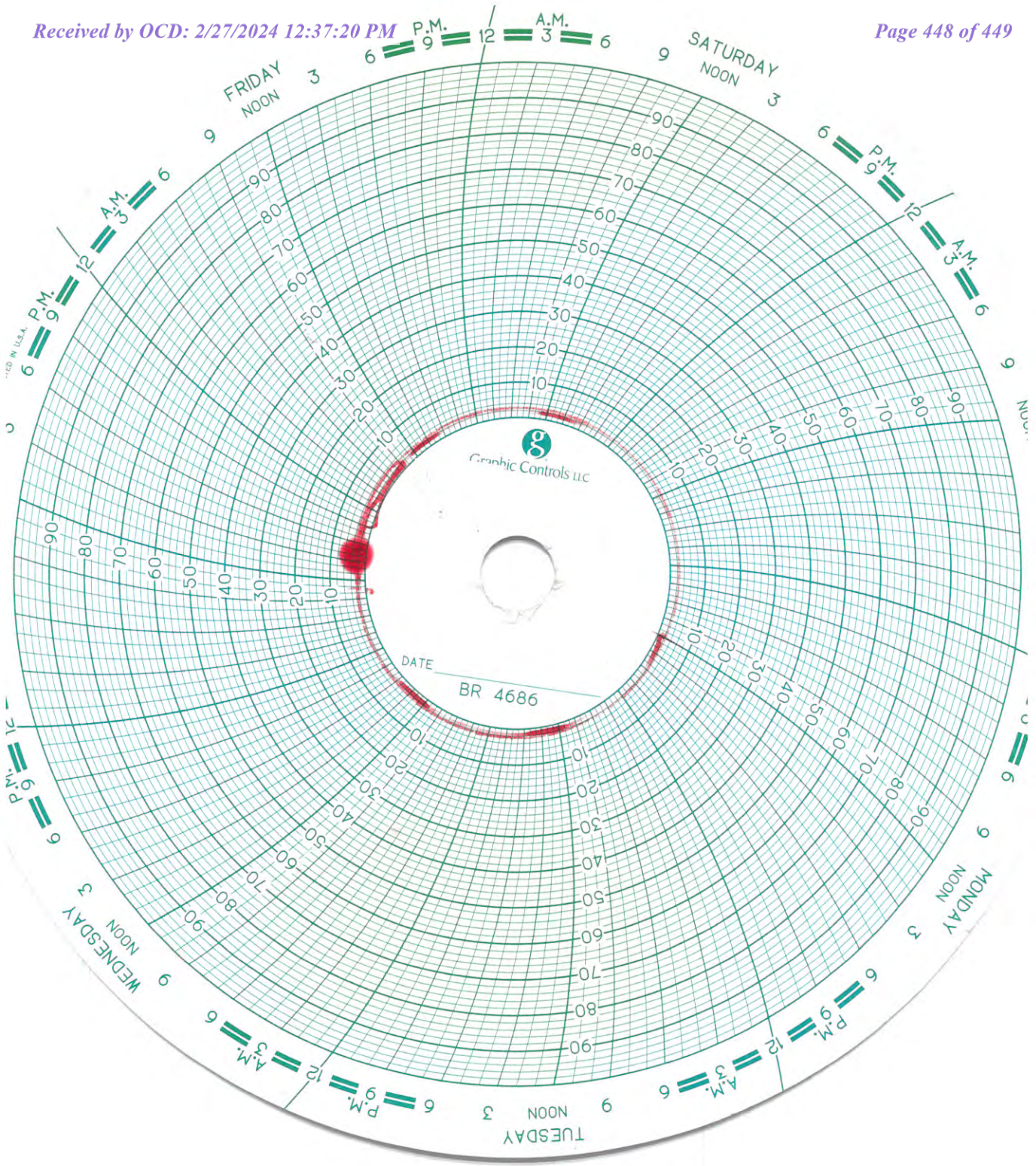
¹⁰Sc

Released to Imaging: 6/13/2024 8:43:20 AM



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 318161

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 318161
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	GAS MITIGATION MONTHLY REPORT – January 2024 South Hobbs G/SA Unit has been accepted for the record.	6/13/2024